The College of Education prepares students for professional careers in the field of education and human services. In addition to producing excellent teachers, College of Education graduates have gone on to excel in numerous other professional fields.

Ninety-eight percent of the college faculty have attained the highest degrees possible in their fields. The College provides students with access to state-of-the-art technology. Each building is equipped with computer laboratories and new “smart” classrooms to keep students and faculty in pace with the latest technological advances in education.

Whether a student’s interest is teaching, administration, school or counseling psychology, health professions, or special education, a degree from the UK College of Education means that he/she will be prepared for a rewarding career and a lifetime of influence on the lives of others.

Educator Preparation at UK

The educator preparation unit of the University of Kentucky includes programs in the colleges of Agriculture, Food and Environment, Arts and Sciences, Communication and Information, Education, Fine Arts, Health Sciences, and Social Work that prepare professionals for careers in public education. The dean of the College of Education is the chief educator preparation officer for the UK educator preparation unit.

The theme of the educator preparation unit is Research and Reflection for Learning and Leading. The vision of the unit is to become one of the nation’s 20 best public professional education units with emphasis on research, reflection, learning and leading.

The mission for the UK educator preparation unit is as follows: the Educator Preparation Unit at the University of Kentucky endeavors to expand the knowledge of teaching and learning processes across a broad educational spectrum. The unit fosters a culture of reflective practice and inquiry within a diverse community of students, faculty, and staff. As part of a research-extensive university, the unit prepares professionals for a variety of roles in educational settings and community agencies and provides leadership in the improvement of the education, health, and well being of citizens in the Commonwealth, the nation, and the world.

Accreditation

The Professional Education Unit for the University of Kentucky is accredited by the National Council for Accreditation of Teacher Education (NCATE), and all professional educator programs are approved by the Kentucky Education Professional Standards Board (EPSB).

Relationship with the Kentucky EPSB

All University of Kentucky educator preparation programs, initial or advanced, have been approved by the Kentucky Education Professional Standards Board (EPSB), in accordance with Kentucky statutes and regulations. In addition to overseeing all educator preparation programs approved for operation in Kentucky, the EPSB also issues, renewes and revokes all Kentucky educator licenses (certificates). Kentucky educator certification regulations are updated in an ongoing basis. For the most up-to-date information about educator certification, refer to the EPSB Web site at: www.kyepsb.net.

Financial Aid/Scholarships

The College of Education awards scholarships to both undergraduate and graduate students. Information and application forms are available in 166 Taylor Education Building. The deadline for scholarship applications is February 15. Graduate students should also contact the Director of Graduate Studies in their department for information about any targeted scholarship funds. The College of Education also administers the Kentucky Minority Educator Recruitment and Retention scholarship program (MERR) for the Kentucky Department of Education. Minority students applying for MERR funds must be Kentucky residents. MERR forms are available in 166 Taylor Education Building.

Undergraduate Programs in Education

The University of Kentucky grants the following degrees in the College of Education:

- Bachelor of Arts in Education
- Bachelor of Science in Education

Students pursuing one of the following majors earn a Bachelor of Arts in Education degree: early elementary education, middle level education, secondary education, or special education (learning and behavior disorders). Students selecting a major in secondary education must specialize in one of the following: English or social studies.

Students pursuing health promotion, kinesiology (teacher certification or exercise science), special education (interdisciplinary early childhood education and moderate and severe disabilities) and STEM education earn the Bachelor of Science in Education degree.

Persons holding a bachelor’s degree from a regionally accredited institution, with a minimum overall GPA of at least 2.75, or a 3.0 in their last 30 hours of the degree, may pursue initial educator preparation at the undergraduate level by following any of the certification programs described in this Bulletin. If these persons also wish to earn a UK bachelor’s degree, all UK degree requirements must be met. All educator preparation students at the University of Kentucky are expected to meet the requirements for “Admission, Retention and Completion from Teacher Education Programs” as described below.

Graduate Programs in Education

Graduate Degrees and Certificates

The University of Kentucky offers the following graduate degrees for education:

- Master of Arts in Education
- Master of Science (Kinesiology and Health Promotion)
- Master of Science in Education
- Master of Science in Education (Interdisciplinary Early Childhood Education)
- Doctor of Education (Ed.D.)
- Doctor of Philosophy (Ph.D.)
- Interdisciplinary Doctor of Philosophy (Ph.D. in Education Sciences)
- Rank II (32 hour) and Rank I (30 hour) Programs in Professional Education
Graduate Programs Leading to Advanced Educator Licensure

The University of Kentucky offers graduate programs leading to advanced educator licensure in Reading and Writing, Computer Science in Instructional Systems Design, Library Science, School Psychology, and School Leadership.

UK Graduate Certificates

The University of Kentucky offers graduate certificates in Assistive and Rehabilitation Counseling, Rehabilitation Counseling, International Higher Education, School Technology and Leadership, and Distance Education.

Graduate Programs Leading to Initial Educator Licensure

The following graduate level initial educator certification programs are available at the University of Kentucky: 1) stand-alone certification program in special education/learning and behavior disorders, grades P-12; 2) master of science program leading to certification in moderate/severe disabilities, grades P-12; 3) master of arts in education with initial certification in secondary education, grades 8-12, English, mathematics, science (biology, chemistry, earth science, or physics), social studies; 4) master of arts in education with initial certification, grades 5-12 in business and marketing education; 5) master of science in career and technical education with initial certification, grades 5-12 (options in agriculture education and family and consumer sciences education); 6) master of science in communication disorders with initial certification, grades P-12; 7) certification program in school psychology, grades P-12; and 8) master of arts in teaching world languages (with options in Chinese, French, German, Latin, Russian, and Spanish), grades P-12.

For more information about programs, please visit the College of Education Web site at: http://education.uky.edu/.

Graduate Alternative Certification Programs Leading to Initial Educator Licensure

Graduate Alternative Certification Programs leading to initial educator licensure are offered in the area of Moderate and Severe Disabilities P-12. Students who wish to enroll in a Graduate Alternative Certification Program must be employed in one of the participating school districts, and must meet the College of Education Admission, Retention and Completion standards, and the standards of the UK Graduate School. Graduate Alternative Certification Programs are three-year programs, including the Kentucky Teacher Internship Program. Additional alternative certification programs are under development and may become available at any time. Contact the Office of the Associate Dean for Academic and Student Services for more information.

Special Facilities and Services

The Education Library provides a wide range of education materials, with over 400 journals and 100,000 books, plus children’s literature and Kentucky state-approved textbook collections. In addition, major education databases are available through the library’s Web site at: http://libraries.uky.edu/educ.

The College’s newly-formed Kentucky P20 Innovation Lab: A Partnership for Next Generation Learning gives students the chance to be part of transforming education to energize and empower today’s students, who were born into a digital age. The Innovation Lab charges college students to play an active role in creating pathways that will lead to a love of learning for generations to come.

The Center for Educator Preparation Information Systems provides database and information system support for the College of Education. In addition, persons associated with the center engage in projects to make information systems technology more accessible to educator preparation programs nationally and in the Commonwealth.

The Instructional Technology Center provides media services to students, faculty, and programs of the College of Education. Services include computer classrooms, computer hardware and software support, presentation technology, circulation of nonprint teaching materials and audiovisual equipment; a materials preparation laboratory; graphic, photographic, and recorded media; and facilities for working with films and electronic media. The staff is available to assist with a wide range of technology-related activities.

The mission of the Office of Student Engagement, Equity and Diversity is to enhance the academic experience of College of Education students through the development and management of co-curricular activities. The office partners with different units within the College of Education with the following goals: maintain a supportive and inclusive environment for College of Education students from the time of their enrollment through graduation; intellectually connect and engage students with all aspects of the College’s programs and initiatives, the Lexington community, and beyond; create a vibrant community of discipline-specific student organizations that can provide all students with mentoring and support in their pursuit of professional careers and certificates; develop multiple paths for students to follow in pursuing personal, educational, leadership and professional growth; and provide opportunities for all students to participate in, experience and embrace diversity. All programs and activities supported by the Office of Student Engagement, Equity and Diversity are geared towards success of all students, regardless of race, nationality, gender, sexual orientation, geographical location, religion, and disability.

The mission of the Institute for Educational Research is to support faculty in identifying significant education and policy issues; encouraging individual, collaborative and interdisciplinary inquiry; locating external funding sources; preparing grant proposals and providing post-award management services.

The Office of Higher Education Research and Development conducts research on questions on higher education that are important to Kentucky. Research results are shared with the Council on Postsecondary Education and other institutions in Kentucky.

The Biodynamics Laboratory is a multidisciplinary facility housed in the Center for Biomedical Engineering. Faculty and students from Kinesiology and Health Promotion, Biomedical Engineering, Sports Medicine, Athletic Training, Minimally Invasive Surgery, and other related fields use high-speed videography, electromyography, and force measures to understand human movement.

The Pediatrics Exercise Physiology (PEP) Laboratory is one of only a handful of facilities in the world designed specifically to serve the needs of pediatrics patients. The PEP-Lab will provide a state-of-the-art facility and resources for testing, physical training, and analysis of pediatric populations for research and clinical investigations.

The UK Body Composition Core Laboratory (BCCL) is a human-based laboratory facility specifically designed to provide state-of-the-art body composition analysis for research and clinical investigations.

The Collaborative Center for Literacy Development (CCLUD), 120 Quinton Court, Suite 200, was established by the Kentucky General Assembly in 1998 to make available training in literacy for educators and to promote literacy development. The Center focuses on six requirements laid out in Senate Bill 186, to: provide professional development and coaching for classroom teachers to implement reliable research-based reading models; establish a demonstration and training site for early literacy at each of Kentucky’s public universities; collaborate with public and private post-secondary institutions to provide quality pre-service and professional development in early reading instruction; assist districts located in areas with low reading skills to assess and address identified literacy needs; identify models of reading instruction supported by research; and develop and implement a clearinghouse for information about reading models. The CCLUD works to improve achievement for students pre-school through adulthood.

The School Psychology Clinic, 641 Maxwellton Court, (859) 257-1381, provides diagnostic assessment, intervention and consultative services to assist children, adolescents, college students, and adult learners with psychological and educational concerns. The clinic is also organized to provide supervised training for graduate students in school psychology at the University of Kentucky. Referrals and requests for services are accepted from parents, teachers, counselors,
and others, as well as from school systems, community agencies and organizations.

The Counseling Psychology Services Clinic, 251 Dickey Hall, (859) 257-4159, is operated by the Department of Educational, School, and Counseling Psychology. The CPS Clinic provides individual, couples, family, parent-child, and group counseling. Diverse populations are welcomed; personal, career, and interpersonal issues can be addressed. The CPS Clinic serves as a training facility for advanced-level masters and doctoral students who are supervised by licensed psychologists. Fees for the CPS Clinic operate on a sliding scale to allow the greatest number of individuals in Lexington and the surrounding counties to be served.

General Information

Students who wish to be recommended for any state educator licensure (certification) must meet the requirements of the Kentucky Education Professional Standards Board, and the University of Kentucky Senate.

Students desiring to be recommended for initial certificates in a major must be admitted to the Teacher Education Program associated with that major. The number of students admitted to any UK teacher education program each year depends upon the availability of resources for maintaining quality instruction.

Admission to a teacher education program is highly selective and may be competitive. Meeting minimum requirements for application does not guarantee admission.

Students will be recommended for degrees only upon completion of approved degree programs. Students who have not been admitted to a teacher education program will not be permitted to enroll in courses requiring Teacher Education Program admittance.

ADMISSION, RETENTION AND COMPLETION FROM TEACHER EDUCATION PROGRAMS

Changes in Rules Governing Admission to Teacher Education Programs

Starting in fall 2012, the rules for admission to all teacher education programs in Kentucky have changed. All candidates for admission to any initial teacher education program are required to show an overall GPA of at least 2.75, or a 3.0 GPA in the last 30 hours taken (semester inclusive). Also, all candidates for admission to any initial teacher education program will need to demonstrate successful completion of the PRAXIS I (PPST) exams in reading, writing, and mathematics. Graduate students may substitute passing scores on the GRE for admission to teacher education.

A student must be admitted, retained in, and successfully complete a state-approved teacher education program in order to receive a teaching certificate. The components of an approved teacher preparation program include: 1) an earned bachelor’s degree from a regionally accredited institution of higher education, 2) completion of approved teaching subject matter field(s), 3) successful completion of state mandated testing, 4) completion of a teacher preparation program, including student teaching, 5) and verification by program faculty that all applicable standards have been met.

The College of Education Certification Program Faculties, the College of Education Director of Academic Services and Teacher Certification, and the University Registrar are charged with the responsibility to monitor a student’s progress through the teacher preparation program, and to recommend to the Kentucky Education Professional Standards Board (EPSB) that a successful candidate be awarded a state teaching license (certificate).

SECTION 1: Overview

A student must be admitted, retained in, and successfully exit from a state-approved educator preparation program in order to receive a teaching certificate. The components of an approved teacher preparation program include:

1. an earned bachelor’s degree from a regionally accredited institution of higher education,
2. completion of approved teaching subject matter field(s), e.g., approved majors, major equivalencies, minors, or support areas, as specified by the candidate’s chosen program faculty,
3. completion of an educator preparation program, including the final clinical experience, e.g., student teaching,
4. and verification by program faculty that all applicable standards sets have been met.

The College of Education Educator Preparation Program Faculties, the College of Education Director of Academic Services and Teacher Certification, and the University Registrar are charged with the responsibility to monitor a student’s progress through the educator preparation program, and to recommend to the Kentucky Education Professional Standards Board (EPSB) that a successful candidate be awarded a state teaching certificate.

SECTION 2: Continuous Assessment

1. A candidate’s progress through all educator preparation programs is continuously monitored, assessed, and reviewed. The first continuous assessment point is admission to educator preparation (TEP). In addition to the general requirements for admission to educator preparation (TEP) listed below, candidates should carefully review the specific requirements of their individual programs.

2. Candidates for admission to educator preparation (TEP) must have completed at least 30 semester hours, or, if pursuing state teacher certification as a certification-only student or a graduate student, must have earned a bachelor’s degree from a regionally accredited institution of higher education.

3. Candidates for admission to educator preparation (TEP) must demonstrate academic achievement by earning a minimum overall GPA of 2.75, or a GPA of at least 3.0 in the final semesters which include the last 30 hours of coursework. Candidates seeking admission to a graduate-level educator preparation program must also satisfy UK Graduate School admission standards. The UK Graduate School requires an overall UG GPA of 2.75 as a minimum for unconditional admission to graduate programs. And, if the candidate has completed any graduate course work, a mini-
Candidates must undergo a formal inter-
7. Candidates must present artifacts that demonstrate their ability to meet stan-
dards, and engage in a dialog concerning their qualifications for admission to educator preparation (TEP).

Section 2B: Testing Requirements for Admission to Educator Preparation Programs (TEP)

1. All candidates for admission to an educator preparation program at UK must demonstrate successful completion of the following pre-professional skills assessments of basic knowledge administered by the Educational Testing Service with the corresponding minimum scores:
   a. Pre-Professional Skills Test: Mathematics (test code 0730) with a cut score of 174; or Computerized Pre-Professional Skills Test: Mathematics (test code 5730) with a cut score of 174;
   b. Pre-Professional Skills Test: Reading (test code 0710) with a cut score of 176; or Computerized Pre-Professional Skills Test: Reading (test code 5710) with a cut score of 176; and
   c. Pre-Professional Skills Test: Writing (test code 0720) with a cut score of 174; or Computerized Pre-Professional Skills Test: Writing (test code 5720) with a cut score of 174.

2. Candidates for admission to a graduate level educator preparation program may demonstrate basic skills in the following manner.
   a. Completion of the pre-professional skills assessment as listed in section 1) a-c; or
   b. Successful completion of the Graduate Record Exam (GRE) with the following corresponding scores:
      i) Required minimum GRE scores for tests taken prior to August 1, 2011
         (1) Verbal with a minimum score of 450
         (2) Quantitative with a minimum score of 490
         (3) Analytical Writing with a minimum score of 4.0
      ii) Required minimum GRE scores for tests taken on or after August 1, 2011
         (1) Verbal with a minimum score of 150
         (2) Quantitative with a minimum score of 143
         (3) Analytical Writing with a minimum score of 4.0

3. Recency Requirements for Testing: Candidates must present scores that are no older than five years. This corresponds to the rule of the Educational Testing Service that scores older than five years cannot be supplied to a candidate.

Section 2C: Second Assessment Point – Retention of Candidates in Educator Preparation Programs

1. The progress of candidates who have been admitted to an educator preparation program is continuously monitored. A retention review may be conducted at any time by the educator preparation program faculty, but is required no later than the semester prior to the final clinical experience, e.g., student teaching. In addition to the general requirements for the retention review listed below, candidates should continue to carefully review the specific requirements of their individual programs.

2. If at the time of admission to educator preparation (TEP), a professional growth plan was prepared for the candidate, progress on implementing the professional growth plan will be reviewed, and the plan will be updated as necessary.

3. Some of the items which are monitored in the retention review are:
   a. Whether a candidate continues to earn grades of C or better in professional education classes;
   b. Whether a candidate continues to maintain a 2.75 minimum GPA overall, or a minimum 3.0 GPA in the final semesters, including the last 30 hours;
   c. Whether a candidate has demonstrated improved competence with the skills of communication, critical thinking, creativity, and collaboration;
   d. Whether a candidate has demonstrated improved competence with the College of Education Functional Skills and Dispositions;
   e. Whether a candidate continues to demonstrate adherence to the EPSB Professional Code of Ethics;
   f. Whether adequate progress is being made toward meeting all required standards sets; and
   g. Whether adequate progress is being made toward completing subject matter coursework requirements for the candidate’s chosen educator preparation program. If a review of the candidate’s subject matter coursework identifies any problem areas, a professional growth plan will be developed to address the problems. Or, if the candidate already has
a professional growth plan, it will be amended to include attention to subject matter coursework problems. (See Section 2, item 3)

4. Continued progress through the educator preparation program will be contingent on the results of the midpoint retention review. Following a retention review, candidates may be continued in good standing in the program, cautioned about identified problems which have been included in the professional growth plan, placed on probation in the program, or dropped from the program.

a. If a candidate is placed on probation in the educator preparation program following a retention review, the time and conditions of the next review will be identified and communicated to the candidate by the Director of Academic Services and Teacher Certification.

b. If a candidate is dropped from the educator preparation program following a retention review, the Director of Academic Services and Teacher Certification will notify the candidate of this action. Candidates who have been dropped from an educator preparation program following a retention review may take no further professional education coursework in the program. (See Section 7, Appeals for additional information)

5. Admission to the Final Clinical Experience, e.g., Student Teaching. Admission to the final clinical experience, e.g., student teaching, requires a successful retention review and recommendation by the program faculty that the candidate be allowed to student teach.

6. State Mandated Examinations for Teacher Certification. The Kentucky Education Professional Standards Board (EPSB) requires that all applicants for a state teaching certificate present passing scores on the appropriate required PRAXIS 2 examinations. Although taking and passing the Kentucky mandated PRAXIS 2 examinations is not a requirement for completion of an educator preparation program at UK, candidates are encouraged to complete the required state-mandated examinations prior to beginning student teaching so that the process of applying for and receiving a state teaching certificate can proceed in a timely manner. Candidates are encouraged to consult with their program faculties for advice on taking the required PRAXIS 2 examinations.

Section 2D: Third Assessment Point – Completion of Educator Preparation Programs

1. The progress of candidates who have been admitted to an educator preparation program is continuously monitored. Each program faculty will conduct a completion review of all candidates, typically at the end of the final clinical experience, e.g., student teaching.

2. All candidates for completion of an educator preparation program must continue to meet all standards for admission and retention at the time of program completion, including GPA requirements.

3. Candidates must have completed the subject matter requirements for his/her chosen educator preparation program.

4. Candidates must have successfully completed all professional education requirements for his or her program, including successful performance in the final clinical experience, e.g., student teaching.

5. At program completion, all candidates must present final evidence for review (typically this includes required and optional artifacts that demonstrate attainment of standards) in the format designated by the candidate’s program faculty.

6. The program faculty must certify that a review of the final evidence and other pertinent documents has demonstrated that the candidate has met all of the required standards as a prerequisite to recommending the candidate for a state teaching certificate.

SECTION 3. GPA Rules for Educator Preparation Programs That Lead to a State Teaching Certificate

Section 3A: GPA Rules for Admission to an Undergraduate Educator Preparation Program

Admission to an undergraduate educator preparation program shall require the following: A cumulative grade-point average of 2.75 on a 4.0 scale or a grade-point average of at least 3.00 on a 4.0 scale in the final semesters that include the last thirty (30) hours of credit completed. These will be taken directly from the most recent original transcript(s) supplied by the candidate. Candidates intending to use this “3.0 minimum GPA in the final semesters that include the last 30 hours of coursework” option should consult with their program faculty chair and the departmental Director of Graduate Studies concerning the use of this option for gaining admission to the UK Graduate School.

Section 3B: GPA Rules for Admission to a Graduate Level Educator Preparation Program

Admission to a graduate level educator preparation program shall require the following: A bachelor’s degree or advanced degree awarded by a regionally accredited college or university with a cumulative grade-point average of 2.75 on a 4.0 scale.

OR a grade-point average of at least 3.00 on a 4.0 scale in the final semesters that include the last thirty (30) hours of either undergraduate or graduate credit completed. This information will be taken directly from the most recent original transcript(s) supplied by the candidate. Candidates intending to use this “3.0 minimum GPA in the final semesters that include the last 30 hours of coursework” option should consult with their program faculty chair and the departmental Director of Graduate Studies concerning the use of this option for gaining admission to the UK Graduate School.

Section 3C: Rules for Using of the “Final Semesters That Include the Last 30 Hours of Credit” Option

If the candidate uses the “final semesters that include the last 30 hours of credit” option, the following procedure shall be used to calculate the last 30 hour GPA. The completed quality hours and quality points for each of the final terms that include the last 30 hours of credit shall be identified. The last 30 hours GPA shall be calculated using the statistics from the entire terms encompassing the last 30 hours. This means that in some instances, the number of hours used to calculate the last 30 hours GPA will be greater than 30.

Section 3D: GPA Rules for Retention and Completion

Candidates must maintain a minimum overall GPA of at least 2.75 for retention in the program. Candidates who used the “final semesters that include the last 30 hours of credit” rule for admission to the program may continue to calculate whether a 3.0 minimum GPA is being maintained at the time of the retention review (normally the two semesters prior to student teaching). Candidates who do not meet this requirement may not student teach.

Candidates must maintain a minimum overall GPA of at least 2.75 for completion of an educator preparation program. Candidates who used the “final semesters that include the last 30 hours of credit” rule for admission to the program may continue to calculate whether a 3.0 minimum GPA is being maintained at the time of the final completion review. Candidates who do not meet this requirement will not be considered to have completed the program, and may not be recommended for a state teaching certificate.

Section 3E: The Rule of “No Grade Less Than C in Professional Education Courses”

Candidates may have no grade less than C in any course defined in the program as being a part of the professional education component. Any professional education grades less than C must be retaken prior to the final clinical experience, e.g., student teaching.

Section 3F: Special GPA Rule Requiring a 2.75 GPA in Program Sub Areas

Some programs require that candidates earn and maintain a 2.75 GPA in the majors, minors,
support areas, and professional education course sequences as specified in the program curriculum description as approved by the UK Senate. The application of this rule means that candidates must demonstrate these 2.75 GPAs at the time of admission, retention, and completion of the program.

Programs that the use of this special GPA rule are as follows:

- All STEM educator preparation programs, e.g., Mathematics Education, Science Education (all areas) and Computer Science Education.

SECTION 4: Standards and Standards Sets in UK Educator Preparation Programs

Section 4A: All UK Educator Preparation Programs Are Standards-based

All UK educator preparation programs are standards-based, requiring candidates to meet these standards before completing the program. Candidates are assessed on these standards at the three continuous assessment points: admission to educator preparation (TEP), prior to final practicum experiences e.g., student teaching, and at the program completion.

Section 4B: There Are Three UK Required Core Standards Sets

There are three core standards sets required for completion of all UK educator preparation programs. They are:

- Interdisciplinary Early Childhood Education Standards (IECE), or Kentucky Teacher Standards (whichever is appropriate for the candidate’s program.)
- College of Education Functional Skills and Dispositions
- College of Education Technology Standards

Section 4C: Discipline (Subject) Specific Standards Also Required

In addition to these three core standards sets, each candidate must demonstrate mastery of the subject specific standards set(s) associated with their individual program.

SECTION 5: Policies on Clinical Experiences, Including the Final Clinical Experience, e.g., Student Teaching

Section 5A: General Policy on Intensive Clinical Experiences

The University of Kentucky College of Education is committed to preparing candidates for the teaching profession who are effective, reflective leaders and decision makers. To that end, and in order to meet state teacher certification regulations and national accreditation requirements, educator preparation candidates complete an array of carefully planned clinical experiences. These experiences are systematically integrated into the educator preparation program curriculum. In order to ensure high quality experiences, the College has established a network of clinical sites where candidates complete clinical placements. These sites are part of the university’s extended campus known as the university clinical/field network. Sites are selected at the program level (i.e., by the program faculty that governs the curriculum for the particular educator preparation program). Selection decisions are made using specific criteria that are directly linked to program goals, accreditation standards, and certification requirements. All candidates are expected to complete their intensive clinical experiences, e.g., practica and the final clinical experience, e.g., student teaching in these approved clinical sites.

Section 5B: General Rules for the Final Clinical Experience, e.g., Student Teaching

A student may enroll in student teaching in one of the educator preparation programs provided he or she has:

1. been admitted to and retained in an educator preparation program;
2. maintained a grade-point standing of at least 2.75 overall or a minimum 3.0 GPA in the final terms that include the last 30 hours of coursework;
3. completed all professional education courses except the final clinical experience, e.g., student teaching;
4. completed a minimum of 75 percent of the required subject matter courses;
5. applied and been accepted for the final clinical experience, e.g., student teaching;
6. completed the required national and state criminal background check with no criminal background identified;
7. been accepted by the school system and supervising teacher where he or she plans to do the final clinical experience, e.g., student teaching;
8. scheduled no more than 3 hours of college work to be carried during the final clinical experience, e.g., student teaching with no classes scheduled to interfere with the student teaching assignment; and
9. presented evidence of having had a specified physical examination.

SECTION 6: Code of Ethics and Character and Fitness Reviews

All students seeking admission to, retention in, or completion of a UK educator preparation program must complete a state mandated character and fitness review. In addition, students with records of misconduct beyond simple traffic violations must provide complete documentation of this misconduct, utilizing written procedures available in the office of Academic Services and Teacher Certification. Records of misconduct will be available for use by program faculties in making decisions about admission, retention, and completion of the program. Students must also complete any state-mandated background checks, which may include a national check of FBI records. By Kentucky statute, persons with records of serious legal misconduct are ineligible for student teaching, state teacher certification, or employment in the public schools. Students are responsible for completing all required background check procedures in a timely manner so that decisions about their movement through the program may be made.

SECTION 7: Appeals

1. The progress of all candidates in educator preparation programs is continuously reviewed and assessed at least three times: at the points of admission, retention, and completion of program. Candidates who are denied admission to an educator preparation program, not retained in the program, or denied completion of the program may appeal the decision of the program faculty. There are two grounds on which a candidate may appeal an unfavorable continuous assessment review: 1) a candidate may appeal if s/he has clear evidence that his/her rights to equal opportunity or due process were violated during the review process, i.e., evidence of discrimination on the basis of race, gender, sexual orientation, age, etc.) or 2) a candidate may appeal if there is new and substantial evidence pertaining to his/her review that was not available for Program Faculty consideration at the time the candidate applied and/or was reviewed (e.g., test scores were late or missing; transcripts were inaccurate, etc.). These are the only two grounds on which an appeal may be filed.

2. Any candidate considering an appeal of a program faculty decision at any of the required Continuous Assessment Review points is encouraged to first meet with the program faculty chair to discuss the program faculty’s decision and to review grounds for the appeal.

3. If an appeal is to be made, candidates must request reconsideration of the program faculty’s decision within 15 business days of the date on the letter notifying the candidate of an unfavorable continuous assessment review. The request for reconsideration must clearly state the grounds on which the appeal is made and demonstrate that one of the two conditions for appeal applies. Written requests should be presented to the program faculty chair, who will call a meeting of the program faculty to review the original decision. The
program faculty chair will notify the Director of Academic Services and Teacher Certification of the faculty’s decision, and the Director will notify the candidate in writing.

4. If the program faculty does not alter its initial decision, the candidate may use the same procedures and appeal to the Appeals Sub-committee of the Program Faculty Chairs Committee. Candidates wishing to appeal to the Program Faculty Chairs Appeals Sub-committee must present their request for sub-committee review to the Associate Dean for Academic and Student Services. The Associate Dean will assemble the necessary materials, call the sub-committee together to hear the appeal, and inform the candidate of the committee’s decision. The program faculty chairperson for the applicant’s program may not serve as a member of the Appeals Sub-committee that hears the case. The Associate Dean will notify the Director of Academic Services and Teacher Certification of the decision of the appeals sub-committee so that student records may be updated. For purposes of admission, retention, or completion of educator preparation programs, the decision of the Appeals Sub-committee of the Program Faculty Chairs Committee is final.

5. This policy addresses all faculty continuous assessment reviews of a candidate’s progress through an educator preparation program, including admission to the program, retention reviews of progress through the program, and the final review for completion of the program.

**Interdisciplinary Early Childhood Education**

**Birth to Primary Standards (IECE)**

1. Designs/plans instruction
2. Creates/maintains environments
3. Implements instruction
4. Assesses and communicates learning results
5. Reflects/evaluates professional practices
6. Collaborates with colleagues/families/other
7. Engages in professional development
8. Supports families
9. Demonstrates implementation of technology

**Beginning (New) Teacher Standards (NTS)**

1. Designs/plans instruction
2. Creates/maintains learning climates
3. Implements/manages instruction
4. Assesses and communicates learning results
5. Reflects/evaluates teaching/learning
6. Collaborates with colleagues/parents/other
7. Engages in professional development
8. Knowledge of content
9. Demonstrates implementation of technology

**College of Education Skills and Dispositions**

1. Communicates appropriately and effectively
2. Demonstrates constructive attitudes
3. Demonstrates ability to conceptualize key subject matter ideas and relationships
4. Interacts appropriately and effectively with diverse groups of colleagues, administrators, students, and parents in educational settings
5. Demonstrates a commitment to professional ethics and behavior

**College of Education Technology Standards**

1. Integrates media and technology into instruction
2. Utilizes multiple technology applications to support student learning
3. Selects appropriate technology to enhance instruction
4. Integrates student use of technology into instruction
5. Addresses special learning needs through technology
6. Promotes ethical and legal use of technology disciplines

**Applying for Kentucky Educator Licenses**

The University of Kentucky offers programs for most initial and advanced professional educator licenses (certificates) issued by the Kentucky Education Professional Standards Board (EPSB). EPSB license requirements are subject to change by the EPSB at any time.

UK candidates for Kentucky professional educator licenses must submit all required application materials to Academic Services and Teacher Certification, 166 Taylor Education Building, Lexington, KY 40506-0001. Recommendations to the EPSB that an educator license be issued are based upon a final audit of all program completion requirements.

**GRADUATION REQUIREMENTS**

To graduate from the College of Education, a student must: 1) complete all specific program requirements as listed in this Bulletin; and 2) meet all requirements of the College of Education admission/retention/completion policy.

Because most students are pursuing both a UK degree and a state educator license (certificate), it is extremely important that advisors are consulted frequently to be sure that the best selection of courses is made to meet both requirements.

**Undergraduate Advising**

Undergraduate advising is coordinated through Academic Services and Teacher Certification, 166 Taylor Education Building.

**DEPARTMENTS IN THE COLLEGE OF EDUCATION**

**Curriculum and Instruction**

The Department of Curriculum and Instruction offers both undergraduate and graduate programs. Undergraduate programs prepare teachers for elementary, middle school, and secondary levels. Graduate programs include: advanced degrees in teaching at elementary, middle, and secondary levels; preparation for teaching at the college/university level; and preparation for instructional design roles in business and industry.

**Educational, School, and Counseling Psychology**

The Department of Educational, School, and Counseling Psychology offers coursework leading to provisional and standard certification and licensure in the Commonwealth of Kentucky, by the Education Professional Standards Board and the Kentucky Board of Psychology, respectively. The UK counseling and school psychology doctoral programs are fully accredited by the American Psychological Association (APA), and the doctoral and specialist degree programs in school psychology are approved by the National Association of School Psychologists (NASP) and the National Council for the Accreditation of Teacher Education (NCATE).

**Educational Leadership Studies**

The Department of Educational Leadership Studies seeks to improve the quality of educational organizations through improved training and competence of leaders. The department is particularly mindful of its obligation to supply the needs of Kentucky for high quality leaders across a range of P20 organizations. Programs are offered at the Masters, Education Specialist, and Doctoral levels to meet a wide range of educational leadership needs as well as to meet specific requirements for a graduate certificate in school technology leadership, teacher leader endorsement, and certification for principals, supervisors of instruction, and superintendents of schools.

**Educational Policy Studies and Evaluation**

The Department of Educational Policy Studies and Evaluation provides a unique opportunity for students who wish to develop the knowledge, judgment, and research skill required to address educational issues with flexibility and imagination. Students are offered the resources of historical, sociological, philosophical, and comparative analysis; knowledge of current educational issues; expertise in evaluation research; and the opportu-
nity to learn skills necessary to evaluate the significance of studies that bear on policy. The department offers advanced degrees only.

Kinesiology and Health Promotion

The Department of Kinesiology and Health Promotion (KHP) offers undergraduate courses and degree programs in physical and health promotion education or exercise science. Students are encouraged to take one 1-credit physical education class each semester during the first two years of college.

KHP Life Fitness program offers beginning instruction in both individual and team activities. In this program students have the opportunity to learn individual and team sports skills and/or improve their level of fitness. Currently 32 different courses are offered each year and over 1,200 students participate in the program. The classes are taught by members of the KHP Department and Department Graduate Teaching Assistants who possess expertise in the areas of health and physical education. Individual skill instruction is available in weight training, conditioning and fitness, golf, racquet sports, gymnastics, swimming, scuba diving, aerobics running and swimming, and dancing. Instruction in such team activities as basketball, soccer, volleyball, and softball is also available. In addition, intermediate and advanced courses in many of the activities are offered.

The kinesiology program is designed for students interested in teaching as well those interested in the application of knowledge and skills in kinesiology and health promotion in commercial settings. Students desiring teacher certification will complete one or more of the programs in kinesiology and health promotion described in this Bulletin. The department also offers a non-teacher certification kinesiology program in exercise science that many students pursue to prepare them for graduate programs within the medical and health field such as Physical or Occupational Therapy, Medical or Physician Assistant, Pharmacy, and also Dentistry.

The purpose of health promotion is to promote quality of life for all people. This area of study is interdisciplinary, extending into biology, psychology, sociology, and medicine. Health promotion generally focuses on the whole individual, including social and emotional dimensions, not just the physical. The primary focus of course work in health promotion is on teacher certification. Opportunities for health educators exist in community agencies, adult fitness programs, and health education programs in industry and business. The department offers a minor in health promotion that does not lead to teacher certification.

Early Childhood, Special Education, and Rehabilitation Counseling

The Department of Early Childhood, Special Education, and Rehabilitation Counseling offers three different initial certification programs at the undergraduate level: (1) interdisciplinary early childhood education; (2) learning and behavior disorders; and (3) moderate/severe disabilities.

The department offers graduate level programs leading to initial educator certification in learning and behavior disorders, moderate/severe disabilities, and interdisciplinary early childhood education. Students may also pursue the masters degree in rehabilitation counseling, and graduate advanced preparation in a variety of special education topics.

STEM Education

The Department of Science, Technology, Engineering, and Mathematics (STEM) Education offers undergraduate degrees in Secondary Mathematics Education and Secondary Science Education. The department also offers a Masters of Science degree in STEM Education. Our mission is to engage in scholarship, teaching, and service that is innovative and contributes to improving the quality of P20 science, technology, engineering, and mathematics education in the Commonwealth, the nation, and the world.

DEGREE PROGRAMS IN THE COLLEGE OF EDUCATION

B.A. in Education with a major in EARLY ELEMENTARY EDUCATION

Requirements for Program

The Early Elementary Education Program is aligned with the New Teacher Standards of the Kentucky Education Professional Standards Board, and the national standards for elementary education approved by the National Council for the Accreditation of Teacher Education.

The model for the early elementary education program presumes a collaborative relationship between school and university personnel focused on ensuring a high level of individual attention to the mentoring and socialization of teacher candidates. The faculty recognizes that this is a labor-intensive process, requiring sustained time and effort by all parties. Work in early elementary education must be guided by two principles: first, a commitment to continuous improvement based on reflection, evaluation, and on-going research; second, a commitment to peer collaboration as a source of professional growth for teacher candidates as well as school and university faculty.

To receive the B.A. degree in Early Elementary Education, students must: (1) complete the UK Core requirements; (2) complete the program related studies courses; and (3) complete the professional education component.

Continuous Assessment

1. Admission to the program is based on a selective admission process that generally occurs after students have completed 45 hours of university course work. All students are expected to meet the standards and rules for Admission, Retention and Completion from the Teacher Education Program as set forth in the section “Admission, Retention and Completion from Teacher Education Programs”.

2. Assessment at the Point of Entry to the Early Elementary Education Program. At the point of entry students must present an admission portfolio which includes the following: a) a “best piece” sample of writing which demonstrates ability to research a topic in some depth; b) evidence of multicultural/cross-cultural experience with written reflection on the experience; c) evidence of having completed 30 hours of community service with early elementary age children, including a written reflection on the experience; and, d) a written autobiography. Also at the time of entry, students will be required to complete an on-demand writing task.

3. On-Going Assessment: Assessment During the Professional Introduction Semester. Assessment of progress in the Professional Introduction semester includes assessment strategies specific to individual courses, but also includes an overall “Professional Introduction Portfolio.” This portfolio is intended to be an extension of the admissions portfolio, adding the following exhibits: a) philosophy of education statement (this will be modified as candidates move through the program); b) “best piece” samples from course work that show evidence of content knowledge, pedagogical content knowledge, and effective practice (given the students’ level of experience); and c) evidence of competence in instructional applications of technology and systems of information management.

4. Assessment of Progress in the Professional Block. This includes assessment strategies specific to individual methods courses that confirm content as well as pedagogical knowledge. It also includes some additional assessments. At the beginning of the semester, students’ Professional Introduction Portfolios are reviewed and placement needs are discussed. Once the semester begins, students are observed throughout the semester by their supervisor and are assessed using an observation form which directly reflects the New Teacher Standards. Students also submit videotapes of themselves teaching and an analysis of these as well as other lessons they have taught. The supervisors provide feedback on these lessons as well. The faculty also reviews students’ Professional Development Plans. Each student develops a Professional Development Plan (PDP) in cooperation with UK faculty and school-based faculty. The PDP includes reflections on the student’s strengths and areas that need further work. This document serves as a planning tool for student teaching. Students also continue the development of their teaching portfolio, adding information that demonstrates competence on tasks related to the New Teacher Standards for each Professional Block course.
5. Assessment During the Student Teaching Semester. Students are assessed in a variety of ways during this semester. Student assignments include: observations reports, developing a thematic unit, critiquing their own teaching using videocassettes, completing two solo weeks, and further developing their teaching portfolios.

Statement on Student Teaching

Students in the early elementary education program complete 16-18 weeks of student teaching, concentrating on the ages in grades P-5. (See the section on “Student Teaching” above for additional information on student teaching.)

UK Core Requirements

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list ............................ 3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list ............................ 3

III. Intellectual Inquiry in the Social Sciences
Choose one course from approved list ............................ 3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
Choose one course from approved list ............................ 3

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I .............. 3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II ............. 3

VII. Quantitative Foundations
MA 111 Introduction to Contemporary Mathematics ............ 3

VIII. Statistical Inferential Reasoning
STA 210 Making Sense of Uncertainty: An Introduction to Statistical Reasoning .............................................. 3

IX. Community, Culture and Citizenship in the USA
Choose one course from approved list ............................ 3

X. Global Dynamics
Choose one course from approved list ............................ 3

UK Core hours ....................................................... 30

Program Related Studies (47 hours)
A-E 200 Workshop in Design Education for Elementary Teachers ................................................................. 3
MUS 266 Teaching Music in Elementary Grades ............... 3
MA 201 Mathematics for Elementary Teachers ............... 3
MA 202 Mathematics for Elementary Teachers ............... 3
PSY 100 Introduction to Psychology ............................ 4
EES 160 Geology for Teachers .................................... 3
PHY 160 Physics and Astronomy for Teachers ............... 3
BIO 103 Basic Ideas of Biology .................................... 3
BIO 111 General Biology Laboratory ............................ 1
HIS 104 A History of Europe through the Mid-Seventeenth Century and HIS 105 A History of Europe from the Mid-Seventeenth Century to the Present OR HIS 108 History of the United States Through 1876 and HIS 109 History of the United States Since 1877 ........ 6

Choose one of the following courses:
HIS 580, PS 456G, APP 200, GEO 322, HIS 240 ......... 3
LIS 510 Children’s Literature and Related Materials .......... 3

Select two courses from the following:
MA 310, MA 241, EDC 334, ENG 207, ENG 211, ENG 230, ENG 231, ENG 260, ENG 274, ENG 280, ENG 290, EDC/ENG 309, WRD 205 ........................................ 6
Free Elective .................................................................. 3

Professional Education Requirements (48 hours)
EDP 202 Human Development and Learning ................. 3
EPE 301 Education in American Culture ...................... 3
*KHP 380 Health Education in the Elementary School ......... 2
*KHP 382 Physical Education for Elementary School Teachers ................................................................. 2
*EDC 327 Teaching Reading and Language Arts ............. 3
*EDC 303 Teaching Exceptional Learners in the Elementary Classroom .................................................. 2
*EDC 323 Classroom Management and Discipline .......... 3
*EDC 322 Elementary Practicum .................................. 3
*EDC 326 Teaching Social Studies in the Elementary School ................................................................. 3
*SEM 328 Teaching Science in the Elementary School ......... 3
*SEM 337 Teaching Mathematics in Elementary Schools ................................................................. 3
*EDC 339 Designing a Reading and Language Arts Program for the Elementary School ......................... 3
*EDC 317 Introduction to Instructional Media .......................... 1
*EDS 447 Strategies for Including Students with Disabilities in the Elementary Classroom ...................... 2
*EDC 453 Student Teaching in the Elementary School ...... 12
*These courses require admission to the Teacher Education Program.

Electives
Electives for 120 total credit hours chosen with the help of an advisor.

TOTAL HOURS ................................................................ 120

B.S. in Education with a major in HEALTH PROMOTION
(TEACHER CERTIFICATION PROGRAM)

Requirements for Program

The Department of Kinesiology and Health Promotion offers undergraduate courses and degree programs in kinesiology (physical education) and health education. These programs support the UK educator preparation unit’s theme of Research and Reflection for Learning and Leading. The process of reflective decision-making is imbedded in the departmental philosophy that students learn best through experiencing. The Health Promotion Program is guided by the standards of the American Association of Health Education (AAHE) and the Kentucky New Teacher Standards.

The health promotion program ensures an understanding of and knowledge about the structure of the health promotion discipline through the content and methodology courses in sexuality education, drug education, human health and wellness, nutrition, and program planning in health education. The purpose of health promotion is to promote quality of life for all people. This area of study is interdisciplinary, extending into biology, psychology, sociology, and medicine. Health promotion generally focuses on the whole individual, including social and emotional dimensions, not just the physical.

The B.S. in Health Promotion requires completion of the following: (1) the UK Core requirements; (2) specified course work in Program Related Studies and Professional Education; (3) the health promotion major; and (4) completion of a university-approved minor. Students wishing to pursue certification both in health and kinesiology must follow the kinesiology program description.

Continuous Assessment

1. All students in the health promotion program are expected to meet the standards and rules for Admission, Retention, and Exit from Teacher Education Programs as set forth in the section “Admission, Retention and Completion from Teacher Education Programs”.

2. The health promotion program stimulates higher performance goals for high-performing students by offering several modes of performance. Examples are: (a) skills in performing physical activities; (b) skills in writing and oral presentations in theory courses; (c) computer technological skills in some courses; and (d) leadership skills demonstrated by high-performing students who serve as class leaders, peer tutors, and/or assistant instructors.

3. After admittance to the program, students not only must maintain a 2.75 GPA, they must continue to exhibit desirable professional characteristics to remain in the program. Students who demonstrate a lack of commitment, effort, professional behavior, knowledge, or teaching skills may be removed from the program until these characteristics are demonstrated.

Statement on Student Teaching

Students who are majoring in Health Promotion will enroll in:

KHP 371 Student Teaching in Health Education ............ 12

UK Core Requirements

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list ............................ 3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list ............................ 3

III. Intellectual Inquiry in the Social Sciences
Choose one course from approved list ............................ 3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
Choose one course from approved list ............................ 3

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I .............. 3

requirements
VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II .......................... 3

VII. Quantitative Foundations
Choose one course from approved list ......................................... 3

VIII. Statistical Inferential Reasoning
STA 210 Making Sense of Uncertainty: An Introduction to Statistical Reasoning .......................... 3

IX. Community, Culture and Citizenship in the USA
Choose one course from approved list ......................................... 3

X. Global Dynamics
Choose one course from approved list ......................................... 3

UK Core hours ........................................................................... 30

Program Related Studies Course Sequence (22 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 100 Introduction to Psychology</td>
<td>4</td>
</tr>
<tr>
<td>SOC 101 Introduction to Sociology</td>
<td></td>
</tr>
<tr>
<td>BIO 103 Basic Ideas of Biology</td>
<td></td>
</tr>
<tr>
<td>PSY 206 Elementary Physiology</td>
<td></td>
</tr>
<tr>
<td>ANA 209 Principles of Human Anatomy</td>
<td></td>
</tr>
<tr>
<td>KHP 240 Nutrition and Physical Fitness</td>
<td></td>
</tr>
<tr>
<td>DHN 101 Human Nutrition and Wellness</td>
<td></td>
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</tbody>
</table>

Professional Education Course Sequence (28 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDP 202 Human Development and Learning</td>
<td></td>
</tr>
<tr>
<td>EDP 203 Teaching Exceptional Learners in Regular Classrooms</td>
<td></td>
</tr>
<tr>
<td>EDC 317 Introduction to Instructional Media</td>
<td></td>
</tr>
<tr>
<td>KHP 371 Student Teaching in Health Education</td>
<td>12</td>
</tr>
<tr>
<td>KHP 430 Methods of Teaching Health Education</td>
<td></td>
</tr>
<tr>
<td>KHP 577 Practicum in Kinesiology and Health Promotion</td>
<td></td>
</tr>
</tbody>
</table>

*These courses require admission to the Teacher Education Program.

Majors and Minors (48-51 hours)

Plan 1
Health Promotion major (30 hours) and one or more university approved minors (18-21 hours). Note: University-approved minors outside of the College of Education must be planned with an advisor in the appropriate college if the student wishes to have the minor appear on his/her transcript.

Students wishing to pursue certification in both Health Promotion and Kinesiology must follow the Kinesiology major program description.

Major in Health Promotion (30 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KHP 190 First Aid and Emergency Care</td>
<td>2</td>
</tr>
<tr>
<td>KHP 220 Sexuality Education</td>
<td></td>
</tr>
<tr>
<td>KHP 222 Drug Education</td>
<td></td>
</tr>
<tr>
<td>KHP 230 Human Health and Wellness</td>
<td></td>
</tr>
<tr>
<td>KHP 270 Introduction to Health Education and Health Promotion</td>
<td></td>
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<tr>
<td>KHP 310 Applied Health Education Practice</td>
<td></td>
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<tr>
<td>KHP 330 Planning and Implementing Health Education Programs</td>
<td></td>
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<tr>
<td>KHP 420G Physiology of Exercise</td>
<td></td>
</tr>
<tr>
<td>KHP 445 Introduction to Tests and Measurements</td>
<td></td>
</tr>
<tr>
<td>KHP 590 Advanced Health Concepts</td>
<td></td>
</tr>
<tr>
<td>DHN 101 Human Nutrition and Wellness</td>
<td></td>
</tr>
</tbody>
</table>

Minor in Health Promotion (24 hours) (not for teacher certification)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KHP 190 First Aid and Emergency Care</td>
<td>2</td>
</tr>
<tr>
<td>KHP 220 Sexuality Education</td>
<td></td>
</tr>
<tr>
<td>KHP 222 Drug Education</td>
<td></td>
</tr>
<tr>
<td>KHP 230 Human Health and Wellness</td>
<td></td>
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<tr>
<td>KHP 270 Introduction to Health Education and Health Promotion</td>
<td></td>
</tr>
<tr>
<td>KHP 330 Planning and Implementing Health Education Programs</td>
<td></td>
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<tr>
<td>KHP 445 Introduction to Tests and Measurements</td>
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</tbody>
</table>

Choose at least three (3) hours from the following electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KHP 310 Applied Health Education Practice</td>
<td></td>
</tr>
<tr>
<td>KHP 590 Advanced Health Concepts</td>
<td></td>
</tr>
<tr>
<td>BSC 331 Behavioral Factors in Health and Disease</td>
<td></td>
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<tr>
<td>FAM 532 Issues in Family Sciences</td>
<td></td>
</tr>
<tr>
<td>HSM 250 Introductory Epidemiology</td>
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</tr>
<tr>
<td>Other health related elective courses than the above list may be selected with permission of the Health Promotion faculty or KHP advising staff and must be relevant to the student’s professional preparation program.</td>
<td></td>
</tr>
</tbody>
</table>

Electives
Electives for 120 total credit hours chosen with the help of an advisor.

TOTAL HOURS ........................................................................... 120-129

B.S. in Education with a major in
INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION

Requirements for Program

Early Childhood Education is an interdisciplinary program which will prepare educators to work with children birth through age five, in public pre-primary classes and non-public institutions including day care, private preschool, and private kindergarten. The program is approved by the Kentucky Education Professional Standards Board to prepare graduates to seek a state teaching certificate in Interdisciplinary Early Childhood Education.

The faculty of the Interdisciplinary Early Childhood Education program are associated with the Department of Early Childhood, Special Education, and Rehabilitation Counseling. The faculty believe that teaching young children involves viewing children holistically, using structured behavioral approaches. They recognize that viewing children holistically requires considering all of the various settings of children’s environment (e.g., home, school, and neighborhood) as well as the reciprocal relationship between any two of the following variables: the immediate context the child is active in, the individual child, and all aspects of the child’s environment (including people). In the Interdisciplinary Early Childhood Education program, students will learn to apply behavioral principles for purposes of developing curricula, assessing child behavior, planning, implementing, and monitoring interventions, and assisting families. The program is guided by the standards of the National Association for the Education of Young Children, and the Division of Early Childhood of the Council For Exceptional Children.

To receive the B.S. degree in Education with a major in Interdisciplinary Early Childhood Education, students must: (1) complete the UK Core requirements; (2) complete the premajor requirements; and (3) complete requirements for the Interdisciplinary Early Childhood Education major, including required student teaching experiences and other practica. To be state-certified, candidates must also successfully complete all state-mandated testing requirements.

Continuous Assessment

1. All students in the interdisciplinary early childhood education program are expected to meet the standards and rules for Admission, Retention, and Exit from Teacher Education Programs as set forth in the section “Admission, Retention and Completion from Teacher Education Programs”.

2. Assessment at the Point of Entry to the IECE Program. The admission process provides the first point for formal assessment of the competencies outlined in the Initial Certification Program Folio for the program. Students who apply for admission must (a) meet the requirements for admission to the Teacher Education Program, and (b) be able to articulate their philosophy of teaching and document their experiences with young children in an initial portfolio and an entrance interview.

3. On-going Assessment. Once a student is admitted to the program, he/she meets with an advisor to plan the remainder of the program. Prior to the student teaching semester, the student must present a portfolio that documents his/her progress toward meeting program competencies.

4. Completion Assessment. At the exit assessment, students must document that they have met all program competencies through a final review of their portfolio and the successful completion of student teaching in an appropriate school placement for young children with and without disabilities.

Statement on Student Teaching

Student teaching in the Interdisciplinary Early Childhood Education program is 16-18 weeks. Students will enroll in:

IEC 411 Student Teaching in Interdisciplinary Early Childhood Education

Degree Requirements

Students in Interdisciplinary Early Childhood Education must complete the following:

1. Complete the UK Core requirements.
2. Complete all degree requirements.
3. Complete the required curriculum in the major program.
4. All students majoring in Interdisciplinary Early Childhood Education must apply and be admitted to the professional Teacher Education Program in order to complete the program.

UK Core Requirements
See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list ................. 3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list ................... 3

III. Intellectual Inquiry in the Social Sciences
Choose one course from approved list ................... 3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
Choose one course from approved list .................... 3

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I ................ 3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II ........... 3

VII. Quantitative Foundations
Choose one course from approved list .................... 3

VIII. Statistical Inferential Reasoning
STA 210 Making Sense of Uncertainty: An Introduction to Statistical Reasoning ................ 3

IX. Community, Culture and Citizenship in the USA
Choose one course from approved list .................... 3

X. Global Dynamics
Choose one course from approved list .................... 3

UK Core hours ..................................................... 30

Premajor Requirements
Hours
BIO 102 Human Ecology ........................................ 3
BIO 103 Basic Ideas of Biology ................................ 3
BIO 111 General Biology Laboratory .......................... 1

HIS 104 A History of Europe through the
Mid-Seventeenth Century
and
HIS 105 A History of Europe from the Mid-Seventeenth Century to the Present

OR

HIS 108 History of the United States Through 1876
and
HIS 109 History of the United States Since 1877 .......... 6

PSY 100 Introduction to Psychology ......................... 4
SOC 101 Introduction to Sociology ............................ 3
IEC 120 Introduction to Early Childhood Education ........ 3

Subtotal: Premajor hours ..................................... 23

All students in Interdisciplinary Early Childhood Education must apply, and be admitted to, and be retained in a Teacher Education Program (TEP), and complete a state approved university teacher training program in Early Childhood Education to be able to apply for certification. Students who are interested in certification in Early Childhood Education need to meet with a certification officer in the College of Education prior to completing 60 semester hours to discuss state certification and TEP requirements. A minimum 2.75 cumulative GPA is required to be eligible to apply for admission to TEP. TEP applications will be reviewed for students who have completed, or will complete during the semester in which they apply, 60 semester hours, including EDP 202, EDS 375, IEC 255, and IEC 256 with a grade of C or better.

Major Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEC 101</td>
<td>Early Childhood Curriculum Planning</td>
<td>3</td>
</tr>
<tr>
<td>EDS 101</td>
<td>Early Childhood Methods and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>EDS 102</td>
<td>Early Childhood Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EDS 103</td>
<td>Early Childhood Development</td>
<td>3</td>
</tr>
<tr>
<td>EDS 104</td>
<td>Early Childhood Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>

Subtotal: Major hours ..................................... 68

Electives

Electives for 120 total credit hours chosen with the help of an advisor.

TOTAL HOURS ........................................ 120

B.S. in Education with a major in KINESIOLOGY
(Teacher Certification Program)

Requirements for Program

The Department of Kinesiology and Health Promotion offers undergraduate courses and degree programs in kinesiology (physical education) and health promotion. These programs support the UK educator preparation unit’s theme of Research and Reflection for Learning and Leading. The process of reflective decision-making is imbedded in the departmental philosophy that students learn best through experiencing. The kinesiology program is guided by the standards of the National Association for Sport and Physical Education (NASPE), and the Kentucky New Teacher Standards.

The kinesiology program ensures an understanding of and knowledge about the structure of physical education through the content courses of anatomy, physiology, kinesiology, exercise physiology, and nutrition. Application of this knowledge is demonstrated in physical education to ensure discipline knowledge for teaching.

The B.S. in Kinesiology requires completion of: (1) the UK Core requirements; (2) specified course work in Program Related Studies and Professional Education; and (3) one of the kinesiology plans. All kinesiology students are encouraged to complete Plan 1, which includes majors in kinesiology and health promotion, so that on graduating they will be qualified to pursue state teaching certification in physical education and health, grades P-12. In addition, students who choose to major in either kinesiology or health promotion only, must pick up a university-approved minor, and are only certified to teach in the single discipline selected.

Continuous Assessment

1. All students in the kinesiology program are expected to meet the standards and rules for Admission, Retention, and Exit from Teacher Education Programs as set forth in the section “Admission, Retention and Completion from Teacher Education Programs”.

2. The kinesiology program stimulates higher performance goals for high-performing students by offering several modes of performance. Examples are: (a) skills in performing physical activities; (b) skills in writing and oral presentations in theory courses; (c) computer technological skills in some courses; and (d) leadership skills demonstrated by high-performing students who serve as class leaders, peer tutors, and/or assistant instructors.

3. After admittance to the program, students not only must maintain a 2.75 cumulative GPA, they must continue to exhibit desirable professional characteristics to remain in the program. Students who demonstrate a lack of commitment, effort, professional behavior, knowledge, or teaching skills may be removed from the program until these characteristics are demonstrated.

Statement on Student Teaching

Students who are majoring only in kinesiology will enroll in:
KHP 369 Student Teaching in Physical Education ...... 12

Students who are completing a major in both kinesiology and health promotion will enroll in:
KHP 369 Student Teaching in Physical Education ...... 6
and
KHP 371 Student Teaching in Health Education ...... 6

In this situation, student teaching time will be divided between the high school, middle school, and elementary grades, with student teaching supervision occurring cooperatively between the kinesiology and health promotion faculty.
UK Core Requirements

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list ......................... 3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list ......................... 3

III. Intellectual Inquiry in the Social Sciences
Suggested:
SOC 101 Introduction to Sociology ............................... 3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
Suggested:
BIO 103 Basic Ideas of Biology ..................................... 3

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I ............. 3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II .............. 3

VII. Quantitative Foundations
Choose one course from approved list ........................... 3

VIII. Statistical Inferential Reasoning
STA 210 Making Sense of Uncertainty: An Introduction to Statistical Reasoning .............................................. 3

IX. Community, Culture and Citizenship in the USA
Choose one course from approved list ........................... 3

X. Global Dynamics
Choose one course from approved list ........................... 3

UK Core hours .................................................................. 30

Program Related Studies Sequence (22 hours)

BIO 103 Basic Ideas of Biology ........................................... 3
PSY 100 Introduction to Psychology .................................... 3
SOC 101 Introduction to Sociology ...................................... 3
ANA 209 Principles of Human Anatomy .......................... 3
PGY 206 Elementary Physiology ....................................... 3
KHP 240 Nutrition and Physical Fitness ........................... 3
DHN 101 Human Nutrition and Wellness .......................... 3

Professional Education Course Sequence (32 hours)

EDP 202 Human Development and Learning .................. 3
EDP 203 Teaching Exceptional Learners in Regular Classrooms ................................................................. 3
KHP 263 Curriculum Design and Developmental Skills in the Elementary School ........................................... 3
*EDC 317 Introduction to Instructional Media .................... 1
*KHP 344 Physical Education in the Secondary School ........ 3
*KHP 360 Physical Education in the Elementary School ........ 3
*KHP 361 Field Experiences .............................................. 1
*KHP 369 Student Teaching in Physical Education ............... 6-12
*KHP 371 Student Teaching in Health Education ................. 6 (if double-majoring in kinesiology and health promotion)
*KHP 430 Methods of Teaching Health Education ............. 3

*Majors and Minors (50-63 hours)

Plan 1
Kinesiology major (32-33 hours) and Health Promotion major (30 hours)

Plan 2
Kinesiology major (32-33 hours) and one or more university approved minors (18-21 hours). Note: University-approved minors outside of the College of Education must be planned with an advisor in the appropriate college if the student wishes to have the minor appear on his/her transcript.

Major in Kinesiology (30 hours)

Performance Area Courses (9 hours)

KHP 156 Educational Gymnastics ...................................... 1
KHP 157 Track and Field ................................................. 1
KHP 210 Introduction to Fitness (Subtitle required) .......... 2
KHP 250 Team Sports (Subtitle required) ..................... 2
KHP 260 Individual Sports (Subtitle required) ................. 2
KHP 162 Outdoor Education Through Activities ............... 1

Content Area Courses (21 hours)

KHP 200 The History and Philosophy of Physical Education and Sport .......................................................... 3
KHP 300 Psychology and Sociology of Physical Education and Sport .......................................................... 3
KHP 390 Dance Activities for Schools .............................. 2
KHP 415 Biomechanics of Human Movement .................. 4
KHP 420G Physiology of Exercise ..................................... 3
KHP 445 Introduction to Tests and Measurements ............ 3
KHP 579 Adapted Physical Education ............................... 3

Major in Health Promotion (30 hours)

KHP 190 First Aid and Emergency Care ............................ 2
KHP 220 Sexuality Education ............................................ 2
KHP 222 Drug Education ................................................ 2
KHP 230 Human Health and Wellness .............................. 3
KHP 270 Introduction to Health Education and Health Promotion .......................................................... 3
KHP 310 Applied Health Education Practice ...................... 3
KHP 330 Planning and Implementing Health Education Programs .......................................................... 3
KHP 445 Introduction to Tests and Measurements ............ 3
KHP 590 Advanced Health Concepts ............................... 3

Choose at least six hours from the following courses:
KHP 240 Nutrition and Physical Fitness ........................... 3
KHP 395 Independent Study in Kinesiology and Health Promotion .......................................................... 3
*KHP 509 Workshop in Health and Safety ........................ 1-3
BSC 331 Behavioral Factors in Health and Disease ............ 3
FAM 352 Issues in Family Sciences ................................. 3
HSM 250 Introductory Epidemiology .............................. 3
CPH 201 Introduction to Public Health ............................. 3

*May be repeated under different topic names for up to three credit hours.

Electives
Electives for 120 total credit hours chosen with the help of an advisor.

TOTAL HOURS .................................................................. 120

B.S. in Education with a major in KINESIOLOGY
(Non-Teacher Certification Program in Exercise Science)

Requirements for Program

The Department of Kinesiology and Health Promotion offers undergraduate courses and degree programs in kinesiology and health education. The kinesiology program (exercise science option) leads to employment opportunities in the athletics, sports and fitness industries, as well as professional programs in health fields such as Physical Therapy, Physicians Assistant, Occupational Therapy, Medicine, Dentistry, and Pharmacy. The kinesiology program is guided by the standards of the National Association for Sport and Physical Education (NASPE).

The B.S. in Kinesiology requires completion of: (1) the UK Core requirements; (2) specified course work in program related studies, professional kinesiology requirements, education course requirements; (3) practicum internship hours; and (4) specified course work in exercise science.

Continuous Assessment

1. The kinesiology program stimulates higher performance goals for high-performing students by offering several modes of performance: (a) skills in performing physical activities; (b) skills in writing and oral presentations in theory courses; (c) computer technological skills in some courses; and (d) leadership skills by high-performing students are often used in classes through class leaders, peer tutors, and/or assistant instructors.

2. Students must maintain a 2.0 GPA for retention in and exit from the program with a bachelor’s degree. Students who demonstrate a lack of commitment, effort, professional behavior, knowledge, or disciplinary skills, or who have not maintained the necessary GPA over all and in the major courses may be removed from the program and the college.

UK Core Requirements

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list ......................... 3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list ........................... 3

III. Intellectual Inquiry in the Social Sciences
PSY 100 Introduction to Psychology ............................... 3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
BIO 103 Basic Ideas of Biology ....................................... 3

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I .......... 3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II ......... 3
Seven Courses (28 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KHP 190</td>
<td>First Aid and Emergency Care</td>
<td>2</td>
</tr>
<tr>
<td>KHP 200</td>
<td>The History and Philosophy of Physical Education and Sport</td>
<td>3</td>
</tr>
<tr>
<td>KHP 210</td>
<td>Introduction to Fitness (Subtitle required)</td>
<td>2</td>
</tr>
<tr>
<td>KHP 230</td>
<td>Human Health and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>KHP 240</td>
<td>Nutrition and Physical Fitness</td>
<td>3</td>
</tr>
<tr>
<td>KHP 300</td>
<td>Psychology and Sociology of Physical Education and Sport</td>
<td>3</td>
</tr>
<tr>
<td>KHP 350</td>
<td>Strength and Conditioning for Sports</td>
<td>3</td>
</tr>
<tr>
<td>KHP 402</td>
<td>Physiology of Exercise</td>
<td>4</td>
</tr>
<tr>
<td>KHP 445</td>
<td>Introduction to Tests and Measurements</td>
<td>3</td>
</tr>
<tr>
<td>KHP 450</td>
<td>Introduction to Exercise Testing and Prescription</td>
<td>3</td>
</tr>
<tr>
<td>KHP 573</td>
<td>Management of Sport</td>
<td>3</td>
</tr>
<tr>
<td>CHE 104</td>
<td>Introductory General Chemistry</td>
<td>3-4</td>
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<tr>
<td>CHE 105</td>
<td>General College Chemistry I</td>
<td>3-4</td>
</tr>
<tr>
<td>CHE 107</td>
<td>General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 108</td>
<td>Introduction to Inorganic, Organic and Biochemistry without Laboratory</td>
<td>3</td>
</tr>
</tbody>
</table>

KHP 577 Practicum in Kinesiology and Health Promotion

KHP 340 Athletic Training

PGY 412G Principles of Human Physiology Lectures

PHY 211 General Physics

Electives to total 120 credit hours chosen from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABT 360</td>
<td>BOC 148, BOC 152, BOC 153, BOC 155, BOC 208, BOC 209, BSC 331, CHE 230, CHE 231, CLA 131, CPH 201, CPH 365</td>
<td>3</td>
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<tr>
<td>KHP 157</td>
<td>KHP 250, KHP 260, KHP 319, PHI 305, PHY 213, and SOC 350</td>
<td>3-5</td>
</tr>
</tbody>
</table>

TOTAL HOURS: 120

B.A. in Education with a major in LEARNING AND BEHAVIOR DISORDERS (LBD)

Requirements for Program

The learning and behavior disorders (LBD) program supports the UK educator preparation unit’s theme of Research and Reflection for Learning and Leading. Special education teachers are prepared to assess, plan, and teach based on what they learn from their students and to conduct continuous self-reflection in order to improve their teaching. The standards and competencies on which the LBD program is based are those prescribed by The Council for Exceptional Children and The Kentucky New Teacher Standards.

The B.A. program in Learning and Behavior Disorders, P-12, prepares students to teach individuals with disabilities (including learning disabilities, emotional/behavioral disorders, mild mental disabilities, other health impaired, and physical disabilities) in primary through twelfth grades. Advising early in the B.A. program is essential in order to complete the requirements in a timely fashion.

Continuous Assessment

1. All students in the LBD program are expected to meet the standards and rules for Admission, Retention and Completion from the Teacher Education Program (TEP) as set forth in the section “Admission, Retention and Completion from Teacher Education Programs”.

2. Assessment at the Point of Entry to the LBD Program. The admission process provides the first point for formal assessment of the competencies outlined in the LBD program. Students applying for admission must: (a) meet the requirements for TEP admission; (b) have successfully completed a special education survey course (EDS 375) and practicum (EDS 357); (c) be able to articulate, orally and in writing, their philosophy of teaching and their experiences with persons with disabilities; and (d) prepare an acceptable extemporaneous writing sample. Entry level assessments will be conducted by program faculty representatives through analysis of TEP application materials, portfolio entries, and an interview entrance.

3. On-going Assessment. Once a student is admitted to the TEP, he/she meets with an advisor from the LBD program faculty to plan the remainder of the program. Prior to the student-teaching semester, the student must present a portfolio that documents his/her progress toward meeting program competencies in the courses completed up to that point. Mid-point assessments will be conducted by program faculty representatives through analysis of transcripts, and portfolio entries, as well as performance in practica courses.

4. Completion Assessment. At the exit assessment, students must document that they have met all program competencies. Exit assessments will be conducted by program faculty representatives through a formal analysis of transcripts, student portfolios, and student teaching evaluations. In addition, to be eligible for a Kentucky teaching certificate, each student must earn passing scores on the required PRAXIS exams.

Statement on Student Teaching

The student teaching program in the LBD program is 16-18 weeks in LBD classrooms. Students split this time evenly between an elementary school placement and a secondary (middle school or high school) placement.

Special Education/LBD Certification (P-12)

UK Core Requirements

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity

Choose one course from approved list

II. Intellectual Inquiry in the Humanities

Choose one course from approved list

III. Intellectual Inquiry in the Social Sciences

Choose one course from approved list

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences

Choose one course from approved list

V. Composition and Communication I

CIS/WRD 110 Composition and Communication I

VI. Composition and Communication II

CIS/WRD 111 Composition and Communication II

VII. Quantitative Foundations

Choose one course from approved list

VIII. Statistical Inferential Reasoning

Choose one course from approved list

IX. Community, Culture and Citizenship in the USA

Choose one course from approved list

X. Global Dynamics

Choose one course from approved list

UK Core hours

Preprofessional Requirements (28 hours)

EDP 202 Human Development and Learning

EPE 301 Education in American Culture

EDS 357 Initial Practicum in Special Education

EDS 375 Introduction to Education of Exceptional Children

FAM 357 Adolescent Development

EDS 522 Children and Families

EDS 513 Legal Issues in Special Education

EDS 514 Instructional Technology in Special Education

EDS 516 Principles of Behavior Management and Instruction

EDS 517 Assistive Technology in Special Education
Program Description

The Middle Level Teacher Education Program supports the UK educator preparation unit’s theme of Research and Reflection for Learning and Leading. The program emphasizes the development of professionally trained specialists in teaching early adolescents. As such, the program models team teaching and collaborative learning. Active learning experiences are emphasized, as are real-world connections. Throughout the program, students are encouraged to consider their present position and make plans for improvement. Students are urged to gather data continuously and to use this data in planning effective instruction. Students are required to provide questions for reflection when writing lessons they do not teach and to provide reflective summaries as part of lesson plans which are delivered to students. Students are provided time and resources to revise and improve curricular materials they develop within the program. Students assess their own progress through the program’s curriculum, preparing them for the continuous self-assessment required of practicing professionals.

To receive the B.A. degree in Middle Level Education, students must: (1) complete the UK Core requirements; (2) complete all required program-related studies and the professional education course sequence; and (3) complete the content area requirements in each of two areas of specialization. Available content specialization areas are: English and Communication, Mathematics, Science, and Social Studies.

Continuous Assessment

1. All middle level education students are expected to meet the standards and rules for Admission, Retention and Completion from Middle Level Education Program as set forth in the section “Admission, Retention and Completion from Teacher Education Programs”.

2. Assessment at the Point of Entry to the Middle School Program. The admission process provides the first point for formal assessment of the competencies outlined by the standards documents which guide the middle level education program. Basic skills standards must be met and students must be making satisfactory progress towards professional and content area proficiency in order for students to win admission.

3. On-going Assessment. Once a student is admitted to the program, he/she meets with an advisor to plan the remainder of the program. The focus of this initial advising session is to begin a professional development plan which ensures that all standards will be met by program completion.

4. Completion Assessment. At the completion assessment, students must show competency in all relevant standard areas. This is done through a final review of the eligibility portfolio, review of information provided by the cooperating teacher and university supervisor, and documentation of remediation of any weaknesses noted at the formal review in the methods semester.

Statement on Student Teaching

Middle level certification requires students to be certifiable in two academic subject areas, which requires two student teaching placements spread across the final two semesters: 6 hours in the second-to-last semester, and 9 hours in the final semester. Students seeking Middle Level certification will register for:

- EDC 549 Student Teaching in the Middle School
- EDC 327 Reading and Language Arts
- EDC 447 Applications of Teaching
- SEM 348 Methods of Teaching
- SEM 345 Teaching Mathematics in the Middle School
- EDC 430 Methods of Teaching
- ECD 547 Collaboration and Inclusion in School and Community Settings

UK Core Requirements

See the UK Core section of this Bulletin for the complete UK core requirements. The courses listed below are required of the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity

Choose one course from approved list

II. Intellectual Inquiry in the Humanities

Choose one course from approved list

III. Intellectual Inquiry in the Social Sciences

Recommended:

PSY 100 Introduction to Psychology

Program Related Studies (4 hours)

PSY 100 Introduction to Psychology

Professional Education Courses (40 hours)

The National Middle School Association (NMSA) describes six broad areas of competence for middle grades teachers. These are: (1) early adolescent development, (2) middle grades curriculum, (3) middle grades instruction, (4) families and community relations, and (5) middle grades school organization, (6) families and community relations, and (6) middle grades teaching roles. With the support of a liberal arts foundation provided by the UK Core requirements and the content area knowledge provided by the requirements detailed above, the professional education requirements of the program endeavor to provide a firm foundation in each of these six areas.

*EDP 202 Human Development and Learning
*EDP 203 Teaching Exceptional Learners in Regular Classrooms
*EPE 301 Education in American Culture

All of the following courses require admission to the Teacher Education Program:

- EDC 327 Reading and Language Arts
- EDC 330 Writing in the Content Areas
- EDC 341 The Early Adolescent Learner and Methods in Middle Level Education
- EDC 343 Methods and Management in Middle Level Education
- SEM 345 Teaching Mathematics in the Middle School
- EDC 346 Methods of Teaching
- EDC 347 Methods of Teaching in Middle Level English Language Arts
- SEM 348 Methods of Teaching Middle Level Science
- SEM 445 Applications of Teaching Middle Level Mathematics
- EDC 446 Applications of Teaching Middle Level Social Studies
- EDC 447 Applications of Teaching Middle Level English Language Arts
- SEM 448 Applications of Teaching Middle Level Science
- EDC 520 Assessment and Accountability in Middle Level Education
- EDC 549 Middle Level Student Teaching

Content Area Courses (18-27 hours)

Students wishing to become certified in middle level (grades 5-9) must select two of the following content areas of specialization. Course requirements, particularly in the areas of English and Communication and Mathematics, have
been prioritized to reflect prerequisite knowledge. Students should plan course work in these areas with the assistance of an advisor.

**English and Communication (24 hours)**

EDC/ENG 509 Composition for Teachers .................... 3
ENG 230 Introduction to Literature .......................... 3
ENG 330 Text and Context (Subtitle required) .......... 3
ENG 251 Survey of American Literature I ................. 3
ENG 252 Survey of American Literature II ............... 3
LIS 514 Literature and Related Media
   for Young Adults ............................................ 3
LIN 211 Introduction to the Study of Language ......... 3
LIN 317 Language and Society (Subtitle required) ..... 3

**Mathematics (25 hours)**

The requirements for students choosing mathematics as a content area of specialization are based on standards developed by the National Council of Teachers of Mathematics, KERA Goals and Academic Expectations, and the Core Content for Assessment. The NCTM standards for middle grades include four common threads (reasoning, communication, problem solving, and connections) as well as content area standards of number, computation and estimation, probability, statistics, algebra, geometry, and measurement. Kentucky’s Goals and Academic Expectations and the Core Content for Assessment focus mathematics instruction on seven core areas: number, mathematical procedures, mathematical structure, measurement, space and dimensionality, change, and data.

**Required**

MA 201 Mathematics for Elementary Teachers .......... 3
MA 202 Mathematics for Elementary Teachers .......... 3
MA 308 Mathematical Problem Solving
   For Middle School Teachers ............................... 3
MA 241 Geometry for Middle School Teachers .......... 3
MA 162 Finite Mathematics and Its Applications ...... 3
STA 291 Statistical Methods .................................... 3
MA 113 Calculus I ............................................... 4
MA 261 Introduction to Number Theory .................... 3

**Science (27 hours)**

The content area preparation required for students in the middle school education program is based on the standards adopted by the National Science Teacher’s Association as well as Kentucky’s Core Content for Science Assessment and the New Teacher Standards. It is important that science teachers have strong content preparation in the sciences. This is needed to communicate modes of scientific inquiry, select appropriate learning experiences, guide students in their early scientific efforts, and help students apply scientific knowledge and skills in their daily lives.

CHE 101 Molecular Science for Citizens .................. 3
CHE 105 General College Chemistry I ..................... 4
CHE 111 Laboratory to Accompany
   General Chemistry I ......................................... 1
EES 160 Geology for Teachers ................................ 3
EES 150 Earthquakes and Volcanoes or
   EES 210 Habititable Planet: Evolution of the Earth System
   PHY 160 Physics and Astronomy for Teachers ........ 3
PHY 120 How Things Work or
   PHY 130 Physics of Energy .................................. 3
BIO 148 Introductory Biology I .............................. 3
BIO 152 Principles of Biology II ............................ 3
BIO 155 Laboratory for Introductory Biology I ...... 3

**Social Studies (18 hours)**

The middle school social studies content area teacher preparation program is guided by two principles: first, a commitment to continuous improvement based on reflection, evaluation, and on-going research; second, a commitment to peer collaboration as a source of professional growth. The program is guided by the National Council for Social Studies document, Expectations of Excellence, and the Kentucky New Teacher Standards.

ANT 220 Introduction to Cultural Anthropology .......... 3
HIS 108 History of the United States Through 1876 .... 3
HIS 109 History of the United States Since 1877 ......... 3
HIS 104 A History of Europe
   Through the Mid-Seventeenth Century .................... 3
HIS 105 A History of Europe
   From the Mid-Seventeenth Century to the Present ..... 3
ECO 201 Principles of Economics I .......................... 3

**Electives**

Electives for 120 total credit hours chosen with the help of an advisor.

**TOTAL HOURS.................................................. 120**

**B.S. in Education with major in MODERATE/SEVERE DISABILITIES**

**Requirements for Program**

The moderate and severe disabilities (MSD) program supports the UK educator preparation unit’s theme of Research and Reflection for Learning and Leading. Special education teachers are prepared to assess, plan, and teach based on what they learn from their students and to conduct continuous self-reflection in order to improve their teaching. The standards and competencies on which the MSD program is based are those prescribed by The Council for Exceptional Children and The Kentucky New Teacher Standards.

The B.S. in Education program in Moderate/Severe Disabilities (MSD) requires completion of: (1) the UK Core requirements; (2) specified course work in Related Studies and Professional Education; and (3) specified course work in the special education and MSD area of specialization.

Students graduating from the certification program obtain a single Kentucky teacher certificate in MSD (grades P-12). Graduates are qualified to teach in classes for students with functional mental disabilities (grades P-12). It is possible to complete this certificate program in four years. In addition to the undergraduate program, an initial certificate in MSD (grades P-12) is offered at the graduate level (See the University of Kentucky Graduate School Bulletin).

**Continuous Assessment**

1. All students in the MSD program are expected to meet the standards and rules for Admission, Retention and Completion from Teacher Education Programs as set forth in the section “Admission, Retention and Completion from Teacher Education Programs”.

2. **Assessment at the Point of Entry to the MSD Program.** The admission process provides the first point for formal assessment of the competencies outlined in the Initial Certification Program Folio for the program. Students who apply for admission must: (a) meet the requirement for admission to the Teacher Education Program; (b) have successfully completed a special education survey course and practicum (EDS 375 and EDS 357 respectively); and (c) be able to articulate their philosophy of teaching and document their experiences with persons with disabilities in an initial portfolio and an entrance interview.

3. **On-going Assessment.** Once a student is admitted to the program, he/she meets with an advisor to plan the remainder of the program. Prior to the student teaching semester, the student must present a portfolio that documents his/her progress toward meeting program competencies in the courses completed.

4. **Completion Assessment.** At the completion assessment, students must document that they have met all program competencies through a final review of their portfolio and the successful completion of student teaching in a public school placement for students with MSD.

**Statement on Student Teaching**

Student teaching in the MSD program is 16-18 weeks and consists of eight to nine weeks in an elementary placement and eight to nine weeks in a middle or secondary placement for students with MSD.

**UK Core Requirements**

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. **Intellectual Inquiry in Arts and Creativity**

   Choose one course from approved list .................... 3

II. **Intellectual Inquiry in the Humanities**

    Choose one course from approved list .................... 3

III. **Intellectual Inquiry in the Social Sciences**

    Choose one course from approved list ........................ 3

IV. **Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences**

    Choose one course from approved list .................... 3

V. **Composition and Communication I**

    CIS/WRD 110 Composition and Communication I .......... 3

VI. **Composition and Communication II**

    CIS/WRD 111 Composition and Communication II ........ 3

VII. **Quantitative Foundations**

    Any approved MA course .................................. 3

VIII. **Statistical Inference**

    Choose one course from approved list .................... 3

IX. **Community, Culture and Citizenship in the USA**

    Choose one course from approved list .................... 3

X. **Global Dynamics**

    Choose one course from approved list .................... 3

**UK Core hours ................................................ 30**
**Program Related Studies (22 hours)**

PSY 100 Introduction to Psychology ........................................ 4
MA 201 Mathematics for Elementary Teachers .......................... 3
MA 202 Mathematics for Elementary Teachers ....................... 3
* Biological science course ................................................ 3
* Physical science course .................................................. 3
WRD 204 Technical Writing .................................................. 3
LIS 510 Children’s Literature and Related Materials or IEC 512 Language and Literacy for Young Children .......................................................... 3

*Choose the biological and physical science courses with the aid of your advisor.

**Professional Education Courses (13-14 hours)**

MUS 266 Teaching Music in Elementary Grades ...................... 3
or A-E 300 Workshop in Design Education for Elementary Teachers .......................................................... 3
or KHP 390 Dance Activities for Schools ................................ 2
All of the following courses require admission to the Teacher Education Program.
EDC 329 Teaching Reading and Language Arts ........................ 3
EDC 339 Designing a Reading and Language Arts Program for the Elementary School ........................................... 3
SEM 357 Teaching Mathematics in the Elementary Schools ........ 3
KHP 382 Physical Education for Elementary School Teachers ........................................................................... 2

**Area of Specialization: Special Education Requirements (47 hours)**

**Special Education Core Requirements**

EDS 357 Initial Practicum in Special Education ...................... 1
EDS 375 Introduction to Education of Exceptional Children ........ 3
EDS 513 Legal Issues in Special Education ................................ 3
EDS 514 Instructional Technology in Special Education................ 3
EDS 516 Principles of Behavior Management and Instruction ........ 3
EDS 517 Assistive Technology in Special Education .................. 3
EDS 522 Children and Families ................................................. 3

**Moderate/Severe Disabilities Areas Requirements**

All of the following courses require admission to the Teacher Education Program.
EDS 530 Moderate and Severe Disabilities ......................... 3
EDS 547 Collaboration and Inclusion in School and Community Settings ....................................................... 3
EDS 548 Curriculum Design for Students with Moderate and Severe Disabilities ............................................... 3
EDS 549 Methods for Students with Moderate and Severe Disabilities ........................................................... 3
EDS 550 Student Teaching: Moderate and Severe Disabilities ........................................................................ 12

**Electives**

Electives for 120 total credit hours chosen with the help of an advisor.

**TOTAL HOURS** .................................................. 120

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**B.A. in Education with a major in SECONDARY EDUCATION**

**Option: English Education**

**Requirements for Program**

This B.A. includes completion of an approved plan in the academic specialty teaching of English.

**No teacher certification is awarded with the B.A.**

Students desiring to go on to Master’s with Initial Certification must apply to the Graduate School and apply to the Secondary English Program Faculty in the spring of their senior year.

To receive the B.A. degree, students must: (1) complete the UK Core requirements; (2) complete the requirements for secondary English education; (3) major course work, support area, and related studies; and (4) complete 100 hours of fieldwork with adolescents through the **required**

three hour course:

EDC 362 Field Experiences in Secondary Education ....... 3

In 1996, the National Council of Teachers of English and the International Reading Association published *Standards for the English Language Arts*. This document identified six English language arts: reading, writing, speaking, listening, viewing, and visually representing. In addition, it presented an expanded definition of literacy, which reflects the ways technology and society have changed and will continue to change the ways in which we use language to communicate and to think. In order to prepare students for the literacy demands of today and tomorrow, English language arts education will need to address many different types and uses of language, including those that have traditionally been given limited attention in the curriculum. One such example is spoken language. Being literate in contemporary society means being active, critical, and creative users not only of print and spoken language but also of the visual language of film, television, photography and other media. Therefore, the content model should reflect the study of language and literacy through speech, theater, writing, and media. The English education program prepares its pre-service teachers with such a model so that their students will succeed as effective language learners and users, equipped with the skills they need to become critically literate citizens, workers, members of society, and lifelong learners.

**Continuous Assessment**

1. Because certification occurs through the Masters in Education including certification (MIC), students should be aware that they will need to be formally admitted to the MIC program. Admission/Retention/Completion regulations for all teacher certification programs are specified in the section "Admission, Retention and Completion from Teacher Education Programs”.

2. Oral and written communication skills of applicants for the MIC program in English Education will be assessed at the time of the interview, and through the entrance portfolio.

3. At the time of application to the English Education program at the Master’s degree level, applicants are evaluated according to the following criteria: grade-point average, quality of work in the subject content area, Graduate Record Examination scores, graded and on-site writing tasks, verbal communication, quality of references, commitment to teaching, social awareness, educational experiences with diverse learners 14-18 years old, and multicultural experiences.

**Statement on Student Teaching**

There is no student teaching required for completion of the Secondary English Education major. Student teaching occurs as part of the Masters in Education with initial certification.

**UK Core Requirements**

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. **Intellectual Inquiry in Arts and Creativity**

Choose one course from approved list ....................................... 3

II. **Intellectual Inquiry in the Humanities**

Choose one course from approved list ....................................... 3

III. **Intellectual Inquiry in the Social Sciences**

Choose one course from approved list ....................................... 3

IV. **Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences**

Choose one course from approved list ....................................... 3

V. **Composition and Communication I**

CIS/WRD 110 Composition and Communication I ................... 3

VI. **Composition and Communication II**

CIS/WRD 111 Composition and Communication II ................ 3

VII. **Quantitative Foundations**

Choose one course from approved list ....................................... 3

VIII. **Statistical Inferential Reasoning**

Choose one course from approved list ....................................... 3

IX. **Community, Culture and Citizenship in the USA**

Choose one course from approved list ....................................... 3

X. **Global Dynamics**

Choose one course from approved list ....................................... 3

**UK Core hours .................................................................. 30**

**Program Related Studies (15 hours)**

EDC 362 Field Experiences in Secondary Education ............... 3
EDC/LIN 513 Teaching English as a Second Language .............. 3
EDC 544 Use and Integration of Instructional Media or EDC 547 Technology in Instruction Practice or EDC 548 Instructional Technology Leadership ................................. 3
EPE 301 Education in American Culture ................................ 3
EDS 375 Introduction to Education of Exceptional Children or EDP 203 Teaching Exceptional Learners in Regular Classrooms ......................................................... 3
College of Education

English Major for Secondary Education (42 hours)

Courses with two asterisks (**) are highly recommended.

Prerequisites (6 hours)

Required:

ENG 230 Introduction to Literature ......................... 3
plus one of the following:
ENG 231 Literature and Genre ................................... 3
ENG 233 Literature and Identities ............................. 3
**ENG 260 Introduction to Black Writers ................. 3
**ENG 290 Introduction to Women’s Literature .......... 3
**ENG 460G Studies in African-American Literature (Subtitle required) ............................................. 3
**ENG 510 Studies in English for Teachers (Subtitle required) ......................................................... 3

Literary Criticism Component (3 hours)

ENG 330 Text and Context: (Subtitle required) .......... 3

Literature Component (18 hours)

Required:

ENG 241 Survey of British Literature I ..................... 3
ENG 242 Survey of British Literature II ...................... 3
ENG 251 Survey of American Literature I .................. 3
ENG 252 Survey of American Literature II ................ 3
ENG 400G Studies in Film (Subtitle required) ............ 3
plus one of the following:
ENG 440G Studies in British Literature: (Subtitle required) ................................................................. 3
ENG 450G Studies in American Literature: (Subtitle required) ................................................................. 3
**ENG 460G Studies in African-American Literature (Subtitle required) ................................................. 3
ENG 470G Comparative and Transnational Studies in Literature: (Subtitle required) ................................ 3
**ENG 490G Studies in Literature and Gender: (Subtitle required) ......................................................... 3
ENG 570 Selected Topics for Advanced Studies in Literature: (Subtitle required) ....................................... 3

Writing Component (9 hours)

ENG 401 Special Topics in Writing (Subtitle required) 
[2 sections, different subtitles] ................................. 6
EDC/ENG 509 Composition for Teachers ................ 3

Language Study Component (6 hours)

ENG 211 Introduction to Linguistics I ....................... 3
plus one of the following:
ENG 301 Style for Writers ........................................ 3
ENG 310 American English ...................................... 3

Support Area (18 hours)

A minimum of three hours credit is required in each of the four areas: journalism, theatre, speech and fine arts, which English teachers will be qualified to teach in Kentucky. In one of the areas, to be selected with the aid of an advisor, a minimum of nine hours is required.

The following courses are recommended; courses with two asterisks (**) are highly recommended:

Journalism

**JOU 101 Introduction to Journalism .......................... 3
JOU 204 Writing for the Mass Media .......................... 3
**JOU 303 News Editing .................................................. 3
**JOU 330 Web Publishing and Design ..................... 3
JOU 387 Photojournalism I .......................................... 3
JOU 455 Mass Media and Diversity (Subtitle required) ......................................................... 3
**JOU 460 Journalism in Secondary Education ........... 3

Theatre

**TA 126 Acting I: Fundamentals of Acting ............... 3
**TA 150 Creativity and the Art of Design and Production ................................................................. 3
TA 267 Lighting and Sound Technology .................... 3
TA 271 World Theatre II ............................................. 3
TA 274 World Theatre IV ............................................ 3
**TA 330 Theatre Directing I ..................................... 3
TA 365 Costume Design .............................................. 3
TA 367 Lighting Design .............................................. 3
TA 374 Scene Design .................................................. 3
TA 385 World Theatre I .............................................. 3
TA 386 World Theatre II ............................................. 3

Communications

*COM 181 Basic Public Speaking ................................ 3
COM 249 Mass Media and Culture ............................. 3
COM 252 Introduction to Interpersonal Communication (GWR) ........................................................... 3
*COM 281 Communication in Small Groups .............. 3
*COM 287 Persuasive Speaking ................................... 3
*COM 482 Studies in Persuasion ............................... 3
*COM 584 Teaching of Communication .................... 3

Fine Arts

**A-H 105 Ancient Through Medieval ...................... 3
**A-H 106 Renaissance Through Modern Art ........... 3
A-H 323 Medieval (Subtitle required) ....................... 3
**A-H 334 Reformation Renaissance Art .................. 3
**A-H 341 20th Century (Subtitle required) ................ 3
A-H 343 History of Photography .............................. 3
A-H 350 Contemporary ............................................. 3
A-S 380 Black & White Darkroom Photography .......... 3
A-S 381 Advanced Black & White Darkroom Photography ......................................................... 3

Electives

With the aid of your advisor, choose from the following courses to bring the total number of earned hours up to 120.

A-H 105 Ancient Through Medieval .......................... 3
A-H 106 Renaissance Through Modern Art ............... 3
AAS 550 Education in a Culturally Diverse Society .... 3
ANT 160 Cultural Diversity in the Modern World ....... 3
ANT 220 Introduction to Cultural Anthropology .......... 3
ANT 324 Contemporary Latin American Cultures ........ 3
ANT 326 People and Cultures of Sub-Saharan Africa .... 3
ANT 401 Gender Roles in Cross-Cultural Perspective ... 3
ANT 534 Sociology of Appalachia ............................... 3
APP 200 Introduction to Appalachian Studies .......... 3
APP 300 Topics in Appalachian Studies: (Subtitle required) ................................................................. 3
COM 101 Introduction to Communications ................ 3
GWS 200 Sex and Power ........................................... 3
GWS 300 Topics in Gender and Women’s Studies: (Subtitle required) .................................................. 3
GWS 350 Introduction to Feminist Theorizing ............ 3
HIS 105 A History of Europe from the Mid-Seventeenth Century to the Present ..................................... 3
HIS 109 History of the United States Since 1877 ......... 3
HIS 203 History of the British People Since the Restoration ................................................................. 3
SPA 371 Latin American Cinema (Subtitle required) .... 3

TOTAL HOURS .................................................. 120

B.A. in Education with a major in SECONDARY EDUCATION Option: Science Education (Biology, Physics, Chemistry, or Earth Science)

NOTE: This major is no longer taking students. Earth Science, Physics and Chemistry will be pursued as options (along with Computer Science and Mathematics) within the STEM Education major.

Requirements for Program

This B.A. includes completion of an approved plan in the academic specialty teaching of Secondary Physical Science or Biological Science.

No teacher certification is awarded with the B.A. Students desiring to go on to Masters with initial certification must apply to The Graduate School and apply to the Secondary Science Program Faculty in the spring of their senior year.

To receive the B.A. degree, students must: (1) complete the UK Core requirements, and Program Related Studies; (2) complete one of the Secondary Science Education plans; and (3) complete 100 hours of fieldwork with adolescents through the required three hour course:

EDC 362 Field Experiences in Secondary Education .... 3

The Secondary Science Education program addresses the content area requirements of Kentucky’s New Teacher Standards, National Research Council’s National Science Education Standards, and the National Science Teachers Association Guidelines. The program encourages the understanding and development of major concepts within a specialty area as well as an understanding of the interconnectedness of the sciences. Students are encouraged to apply mathematics to investigations of science, including analyses of data. It is intended that students relate the concepts of science to contemporary, historical, technological and societal issues. As future science teachers, students will need to locate resources, design and conduct inquiry-based and open-ended investigations, interpret findings, communicate results and make judgments based upon evidence. Specifically, the program encourages the teaching of science through a problem-solving, inquiry-based approach.

Continuous Assessment

1. Because certification occurs through the Masters in Education including certification (MIC), students should be aware that they will need to be formally admitted to the MIC program. Admission/Retention/Exit regulations for all teacher certification programs are specified in the section “Admission, Retention and Completion from Teacher Education Programs”.

2. Oral and written communication skills of applicants for the MIC program in secondary science education will be assessed at the time of the interview, and through the entrance portfolio.
3. Admission to the Masters in Education with certification is competitive. At the time of application to the science education program, applicants will be evaluated on the basis of GPA, GRE scores, graded and on-site writing tasks, verbal communication, quality of references, commitment to teaching, social awareness, educational experiences with diverse learners, 14-18 years olds, and multicultural experiences, and quality of work in the sciences.

Statement on Student Teaching

There is no student teaching required for completion of the secondary science education major. Student teaching occurs as part of the Masters in Education with initial certification.

UK Core Requirements

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list .......................... 3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list .......................... 3

III. Intellectual Inquiry in the Social Sciences
Choose one course from approved list .......................... 3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
Choose one course from approved list .......................... 3

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I .......... 3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II .......... 3

VII. Quantitative Foundations
MA 113 Calculus I .................................................... 4
or
MA 137 Calculus I with Life Science Applications ......... 4

VIII. Statistical Inferential Reasoning
STA 210 Making Sense of Uncertainty: An Introduction to Statistical Reasoning .......................... 3

IX. Community, Culture and Citizenship in the USA
Choose one course from approved list .......................... 3

X. Global Dynamics
Choose one course from approved list .......................... 3

UK Core hours ..................................................... 31

Program Related Studies (6 hours)
EDC 362 Field Experiences in Secondary Education .... 3
CS 101 Introduction to Computing I .......................... 3

Majors and Minors (54-72 hours)

Plans for Majors, Minors, and Supporting Subjects

Candidates may choose to be certified in one of two science areas, 1) biological science, or 2) physical science. Biological science candidates must have a biological science major for secondary education and follow one of the biological science plans. Physical science candidates must have a chemistry major for secondary education, earth science major for secondary education, physical science major for secondary education, or physics major for secondary education and follow one of the physical science plans.

Plans for Biological Science Candidates

Plan 1
Major (33 hours in biological science) plus: (A) a supporting non-certifiable minor of (21 hours) in mathematics, OR (B) a supporting non-certifiable minor in one of the other sciences. The science fields from which the minor may be chosen include chemistry, earth science, and physics.

Plan 2
Major (33 hours in biological science) with two 12-hour supporting subjects. The 12-hour blocks of support-subjects may be chosen from two of the following fields: chemistry, earth science, physics, or mathematics.

Plan 3
Major (33 hours in biological science) and four supporting subjects. Students selecting Plan 3 will complete a major in biology and take a total of 24 semester hours from chemistry, earth science, physics, and mathematics, with a minimum of three semester hours in each field.

Plans for Physical Science Candidates

Plan 1
Major (33 hours in either chemistry, earth science, or physics) plus: (A) a supporting non-certifiable minor of (21 hours) in mathematics, OR (B) a supporting minor in one of the other sciences. The science fields from which the minor may be chosen include biology (non-certifiable), chemistry, earth science, and physics, or mathematics.

Plan 2
Major (33 hours in either chemistry, earth science, or physics) with two 12-hour supporting subjects. The 12-hour blocks of support-subjects may be chosen from two of the following fields: biology, chemistry, earth science, physics, or mathematics. Courses from the major may not be applied to the support-subjects requirement.

Plan 3
Major (33 hours in either chemistry, earth science, or physics) and four supporting subjects. Students selecting Plan 3 will complete a total of 24 semester hours from biology, chemistry, earth science, physics, and mathematics, with a minimum of three semester hours in each field. Courses from the major may not be applied to the support-subjects requirement.

Plan 4
Students will complete a physical science for secondary education major. The physical science major consists of 21 hour minors in chemistry, earth science, and physics. Minors from each field must be included in the physical science major.

Major Requirements

All majors for secondary science education require a minimum of 33 hours.

Biological Science Major for Secondary Education (33 hours)

Required Support Courses
CHE 105 General College Chemistry I ...................... 4
CHE 107 General College Chemistry II ...................... 3
CHE 111 Laboratory to Accompany General Chemistry I ........................................................................ 1
CHE 113 Laboratory to Accompany General Chemistry II .................................................................. 2
PHY 211/213 General Physics .................................. 10

Recommended Courses
CHE 105 General College Chemistry I ...................... 4
CHE 107 General College Chemistry II ...................... 3
CHE 111 Laboratory to Accompany General Chemistry I ........................................................................ 1
CHE 113 Laboratory to Accompany General Chemistry II .................................................................. 2
CHE 233 Organic Chemistry Laboratory II ................ 3
CHE 235 Organic Chemistry Laboratory II ................ 4

Recommended Support Courses
CHE 230 Organic Chemistry I .................................. 3
CHE 231 Organic Chemistry Laboratory I .................. 3
CHE 232 Organic Chemistry II ................................ 3
CHE 233 Organic Chemistry Laboratory II ................ 1
BCN 401G Fundamentals of Biochemistry ................. 3

Required for Major
BIO 150 Principles of Biology I ................................ 3
BIO 151 Principles of Biology Laboratory I ............... 2
BIO 152 Principles of Biology II ................................ 3
BIO 153 Principles of Biology Laboratory II ............... 2
BIO 325 Ecology ..................................................... 4
BIO 304 Principles of Genetics .................. 3
or
ABT 360 Genetics ..................................................... 3

Upper Level Botany Course
BIO 351 Plant Kingdom ............................................. 4

Upper Level Zoology Course
BIO 350 Animal Physiology (highly recommended) .... 4
BIO electives (chosen with aid of advisor) ...........

Recommended for Major
BIO 315 Introduction to Cell Biology ......................... 4

Chemistry Major for Secondary Education (33 hours)

Required Support Courses
MA 113 Calculus I .................................................... 4
MA 114 Calculus II .................................................... 4
PHY 211/213 General Physics .................................. 10

Recommended Courses
MA 213 Calculus III .................................................. 4

Required for Major
CHE 105 General College Chemistry I ...................... 4
CHE 107 General College Chemistry II ...................... 3
CHE 111 Laboratory to Accompany General Chemistry I ........................................................................ 1
CHE 113 Laboratory to Accompany General Chemistry II .................................................................. 2
CHE 235 Organic Chemistry Laboratory II ................ 3
CHE 233 Organic Chemistry Laboratory II ................ 4

Recommended Courses
CHE 230 Organic Chemistry I .................................. 3
CHE 231 Organic Chemistry Laboratory I .................. 3
CHE 232 Organic Chemistry II ................................ 3
CHE 233 Organic Chemistry Laboratory II ................ 1
CHE 226 Analytical Chemistry ................................ 3
BCN 401G Fundamentals of Biochemistry ................. 3
CHE 440G Introductory Physical Chemistry ................. 4

Recommended Courses
Additional courses selected with aid of advisor.
### Earth Science Major for Secondary Education (33 hours)*

**Required Support Courses**
- MA 123 Elementary Calculus and Its Applications or MA 113 Calculus I................. 4
- CHE 105 General College Chemistry I ......... 4
- CHE 107 General College Chemistry II .......... 3
- CHE 111 Laboratory to Accompany General Chemistry I........................................ 1
- CHE 113 Laboratory to Accompany General Chemistry II................................. 2
- PHY 211/213 General Physics......................... 10
- or PHY 231/232 General University Physics and PHY 241/242 General University Physics Laboratory ........................................ 10
- BIO 150 Principles of Biology I..................... 3
- BIO 151 Principles of Biology Laboratory I........ 2

**Required for Major**
- AST 191 The Solar System.......................... 3
- GEO 130 Earth’s Physical Environment or GEO 230 Weather and Climate............. 3
- EES 220 Principles of Physical Geology .......... 4
- EES 230 Fundamentals of Geology I.............. 3
- EES 235 Fundamentals of Geology II............. 3
- EES 360 Mineralogy or EES 401G Invertebrate Paleobiology and Evolution.................. 3-4

**Recommended for Major**
- The following list contains courses that are normally applied to the major.
- AST 192 Stars, Galaxies and the Universe .......... 3
- EES 360 Mineralogy (if not taken above)......... 4
- EES 401G Invertebrate Paleobiology and Evolution (if not taken above)............... 3
- EES 341 Landforms.................................. 3
- PLS 366 Fundamentals of Soil Science ......... 4
- Oceanography course (if transferred from another university) ......................... 3-4
- Earth Science electives to be selected with the aid of advisor.

*Note: Students should note that earth science is generally taught in Kentucky at the eighth grade level. In many states it is taught at the ninth grade level; therefore, secondary OR middle school certification could be required. You must decide the level of certification that fits your needs. If you plan to teach in Kentucky, you may want to follow either of the following options: 1) obtain science certification through the middle school program or 2) obtain earth science certification through the secondary education program. Currently, the Kentucky Department of Education is allowing secondary science teachers to teach science in the 7th and 8th grades without having middle school certification. The option for secondary certification provides more extensive content preparation in earth science.

### Physics Major for Secondary Education (33 hours)

**Required Support Courses**
- CHE 105 General College Chemistry I ............ 4
- CHE 107 General College Chemistry II .......... 3
- CHE 111 Laboratory to Accompany General Chemistry I........................................ 1
- CHE 113 Laboratory to Accompany General Chemistry II................................. 2
- MA 113 Calculus I......................... 4
- MA 114 Calculus II.......................... 4
- EES 220 Principles of Physical Geology .......... 4
- BIO 150 Principles of Biology I.................... 3

**Recommended for Minor**
- CHE 230 Organic Chemistry I...................... 3
- CHE 231 Organic Chemistry Laboratory I........ 1
- CHE 232 Organic Chemistry II..................... 3

### Biological Science Minor for Secondary Education (21 hours)

**Required Support Courses**
- CHE 105 General College Chemistry I ............ 4
- CHE 107 General College Chemistry II .......... 3
- CHE 111 Laboratory to Accompany General Chemistry I........................................ 1
- CHE 113 Laboratory to Accompany General Chemistry II................................. 2

**Required for Minor**
- BIO 150 Principles of Biology I.................... 3
- BIO 151 Principles of Biology Laboratory I........ 2
- BIO 152 Principles of Biology Laboratory II ........... 3
- BIO 153 Principles of Biology Laboratory III .......... 2
- BIO 325 Ecology.................................. 4
- BIO 304 Principles of Genetics or ABT 360 Genetics ........................................ 3-4

**Recommended for Minor**
- Additional courses selected with aid of advisor.

### Physics Minor for Secondary Education

**Required Support Courses**
- MA 113 Calculus I......................... 4

**Recommended for Minor**
- CHE 105 General College Chemistry I ............ 4
- CHE 107 General College Chemistry II .......... 3
- CHE 111 Laboratory to Accompany General Chemistry I........................................ 1
- CHE 113 Laboratory to Accompany General Chemistry II................................. 2
- MA 114 Calculus II.......................... 4

*Note mathematics requirements for taking upper-level physics courses.

**Required for Minor**
- PHY 211/213 General Physics...................... 10
- or PHY 231/232 General University Physics and PHY 241/242 General University Physics Laboratory ......................... 10
- CHE 230 Organic Chemistry I...................... 3
- CHE 231 Organic Chemistry Laboratory I........ 1
- CHE 361 Principles of Modern Physics.......... 3

**Recommended for Minor**
- Additional courses selected with aid of advisor.

### Earth Science Minor for Secondary Education*

**Required for Minor**
- AST 191 The Solar System.......................... 3
- GEO 130 Earth’s Physical Environment or GEO 230 Weather and Climate............. 3
- EES 220 Principles of Physical Geology .......... 4
- EES 230 Fundamentals of Geology I.............. 3
- EES 235 Fundamentals of Geology II............. 3
- EES 360 Mineralogy or EES 401G Invertebrate Paleobiology and Evolution............. 3-4

**Recommended for Minor**
- The following list contains courses that are normally applied to the minor.
- AST 192 Stars, Galaxies and the Universe .......... 3
- EES 360 Mineralogy (if not taken above)......... 4
- EES 401G Invertebrate Paleobiology and Evolution (if not taken above)............... 3
- EES 341 Landforms.................................. 3
- PLS 366 Fundamentals of Soil Science ......... 4
- Oceanography course (if transferred from another university) ......................... 3-4

### Mathematics Minor for Secondary Education

**Required for Minor**
- MA 113 Calculus I......................... 4
- MA 114 Calculus II.......................... 4
- MA 213 Calculus III......................... 4

**Recommended for Minor**
- Additional courses chosen with aid of advisor. In most cases courses will be selected from the following list.
- MA 341 Topics in Geometry ....................... 3
- MA 310 Mathematical Problem Solving for Teachers ......... 3
- MA 261 Introduction to Number Theory .......... 3
- MA 320 Introductory Probability .................. 3
- MA 322 Matrix Algebra and Its Applications ....... 3
- MA 330 History of Mathematics .................. 3
- MA 214 Calculus IV.......................... 3

### Chemisomy Minor for Secondary Education

**Required for Minor**
- PHY 211/213 General Physics...................... 10
- or PHY 231/232 General University Physics and PHY 241/242 General University Physics Laboratory ......................... 10
- CHE 230 Organic Chemistry I...................... 3
- CHE 231 Organic Chemistry Laboratory I........ 1
- CHE 232 Organic Chemistry II..................... 3
- CHE 233 Organic Chemistry Laboratory II........ 1
- CHE 226 Analytical Chemistry ...................... 3-4
- or BCH 401G Fundamentals of Biochemistry .......... 3

*Additional courses selected with aid of advisor.
Recommended for Minor
AST 191 The Solar System ........................................ 3
or
*PHY 151 Introduction to Physics ................................. 3
AST 192 Stars, Galaxies and the Universe
or
*PHY 152 Introduction to Physics ................................. 3
*Note: A maximum of six hours of astronomy may be counted toward the 21 hour physics requirement. A student may not count both the AST 191, 192 and PHY 151, 152 sequences toward the minor. If PHY 151 and PHY 152 are applied to the major, they must be completed prior to taking the PHY 231, 241, 232, 242 sequence.

Electives
Electives for 120 total credit hours chosen with the help of an advisor.

TOTAL HOURS .................................................. 120

B.A. in Education with a major in SECONDARY EDUCATION

Option: Social Studies Education

Requirements for Program

This B.A. includes completion of an approved plan in the academic specialty teaching social studies. No teacher certification is awarded with the B.A. Students desiring to go on to Master’s with Initial Certification must apply to the Graduate School and apply to the Secondary Social Studies Education Program Faculty in the spring of their senior year.

To receive the B.A. degree, students must: (1) complete the UK Core requirements; (2) complete one of the secondary social studies education plans; and (3) complete 100 hours of fieldwork with adolescents through the required three hour course:
EDC 362 Field Experiences in Secondary Education .... 3

Following completion of the secondary social studies major, students will demonstrate the following: (1) a reflective understanding of American society, its past and contemporary situation, and its place in the larger world; (2) an ability to apply social science concepts and use inquiry and interpretive skills; (3) a historical perspective; (4) a multicultural and global perspective; and (5) an ability to learn from participation in the community (from local to global) affairs and service. Students should consider experiences such as study abroad and internships in government and social agencies, as well as course work, in preparation for social studies teaching.

Continuous Assessment

1. Because certification occurs through the Masters in Education including certification (MIC), students should be aware that they will need to be formally admitted to the MIC program. Admission/Retention/Completion regulations for all teacher certification programs are specified in the section “Admission, Retention and Completion from Teacher Education Programs”.

2. Oral and written communication skills of applicants for the MIC program in social studies education will be assessed at the time of the interview, and through the entrance portfolio.

3. Admission to the Masters in Education with initial certification is competitive; completion of the Bachelors in Secondary Social Studies Education does not guarantee admission to the Masters in Education with certification program.
   a. Students are reminded that they will be teaching about the whole world; somewhere in the 66 hours they should have at least one course about each world region.
   b. Students also need to be prepared to teach U.S. history from an interdisciplinary perspective and a multicultural perspective.
   c. Students need breadth and depth. Students are strongly urged to take nine hours in two of the subjects in their support area.

Statement on Student Teaching

There is no student teaching required for completion of the secondary social studies education major. Student teaching occurs as part of the Masters in Education with certification.

UK Core Requirements

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
   Choose one course from approved list ........................ 3

II. Intellectual Inquiry in the Humanities
    Choose one course from approved list ........................ 3

III. Intellectual Inquiry in the Social Sciences
     Choose one course from approved list ........................ 3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
    Choose one course from approved list ........................ 3

V. Composition and Communication I
   CIS/WRD 110 Composition and Communication I ........ 3

VI. Composition and Communication II
    CIS/WRD 111 Composition and Communication II ....... 3

VII. Quantitative Foundations
     Choose one course from approved list ........................ 3

VIII. Statistical Inferential Reasoning
      Choose one course from approved list ........................ 3

IX. Community, Culture and Citizenship in the USA
    Choose one course from approved list ........................ 3

X. Global Dynamics
    Choose one course from approved list ........................ 3

UK Core hours .................................................. 30

Program Related Studies (3 hours)
EDC 362 Field Experiences in Secondary Education .... 3

 Majors and Minors (66-72 hours)

Students must complete Plan 1 or 2 in history and social sciences for secondary education.

Plan 1

Major in history (36 hours) with a minor (19-21 hours) in anthropology, economics, geography, political science, psychology, or sociology, and a support area (15 hours) which includes one course from each of the social sciences not chosen as minor.

Plan 2

Major (at least 30 hours) in anthropology, economics, geography, political science, psychology, or sociology, with a minor (21 hours) in history and a support area (15 hours) which includes one course from each of the social sciences not chosen as major.

History Minor for Secondary Education

(36 hours)

Required (18 hours)
HIS 104 A History of Europe Through the Mid-Seventeenth Century ............................................. 3
HIS 105 A History of Europe From the Mid-Seventeenth Century to the Present ................................. 3
HIS 108 History of the United States Through 1876 .... 3
HIS 109 History of the United States Since 1877 ......... 3
HIS 301 History Workshop:
Introduction to the Study of History .......................... 3
HIS 499 Senior Seminar for History Majors
   (Subtitle required) ................................................. 3

Twelve of the other 18 credits must be history courses numbered 300 to 599. There must be some chronological diversity, with at least six hours of U.S. history above the 100 level and at least nine hours in history of other regions of the world, which will give the student the broad background necessary to teach World Civilization ......................... 18

History Minor for Secondary Education

(21 hours)

Required (12 hours)
HIS 104 A History of Europe Through the Mid-Seventeenth Century ............................................. 3
HIS 105 A History of Europe From the Mid-Seventeenth Century to the Present ................................. 3
HIS 108 History of the United States Through 1876 .... 3
HIS 109 History of the United States Since 1877 ......... 3

Plus nine hours which will give students a broad preparation for teaching U.S. History and World Civilization. At least six hours should be at the 300 level or above ......................... 9

Anthropology Major for Secondary Education

(33 hours)

Required (6 hours)
ANT 220 Introduction to Cultural Anthropology .............. 3
ANT 230 Introduction Biological Anthropology .............. 3

Anthropological Theory (9 hours)
ANT 301 History of Anthropological Theory .................. 3
ANT 433 Social Organization ..................................... 3
One of the following: ANT 338, 429, 430G, 450, 525, 526, 532 ............. 3

Research Methodology (3 hours)
ANT 490 Anthropological Research Methods ................ 3

Option 1 – Regional Specialization (6 hours)
Two courses from the same culture area, one ethnology and one culture history.
Ethnology courses are: ANT 221, 324, 428G, 431G, 534.
Culture history courses are: ANT 241, 242, 320, 322, 342, 555.

Option 2 – Cross-Cultural Comparison (6 hours)
Two ethnology courses, each representing a contrasting area.
Ethnology courses are: ANT 221, 429G, 431G, 534.
Subdisciplinary Breadth (6 hours)
One course in archaeology and one in physical anthropology.

Senior Tutorial Seminar
ANT 582 Senior Integrative Seminar .................................3

Anthropology Minor for Secondary Education (21 hours)
Required (6 hours)
ANT 220 Introduction to Cultural Anthropology .................3
ANT 230 Introduction to Biological Anthropology ...............3
Select one course from each of the four areas and one elective (15 hours)

1. Archaeology
ANT 240 Introduction to Archaeology .................................3
ANT 242 Origins of New World Civilization ..............................3
ANT 320 Andean Civilization ...........................................3
ANT 322 Ancient Mexican Civilizations ...............................3

2. Area Studies
ANT 221 Native People of North America ...............................3
ANT 324 Contemporary Latin American Cultures ......................3
ANT 326 People and Cultures of Sub-Saharan Africa ...............3
ANT 327 Culture and Societies of India and South Asia ...............3
ANT 428G Contemporary Cultures and Societies in Southeast Asia 3

3. Physical Anthropology
ANT 332 Human Evolution ..............................................3
ANT 333 Contemporary Human Variation ..............................3

4. Social and Cultural Anthropology
ANT 301 History of Anthropological Theory ..........................3
ANT 338 Economic Anthropology .......................................3
ANT 401 Gender Roles in Cross-Cultural Perspective .................3
ANT 433 Social Organization ............................................3
ANT 525 Applied Anthropology .......................................3
ANT 526 Psychological Anthropology ................................3
ANT 532 Anthropology of the State ..................................3

Economics Major for Secondary Education (30 hours)
Required (12 hours)
ECO 201 Principles of Economics I ......................................3
ECO 202 Principles of Economics II .................................3
ECO 401 Intermediate Microeconomic Theory .......................3
ECO 402 Intermediate Macroeconomic Theory .......................3
For breadth, select five from the following list and, for depth, ECO 499, Seminar in Economics (Subtitle required) for three credits (18 hours)
ECO 412 Monetary Economics .........................................3
ECO 463 Analysis of Business Conditions .............................3
ECO 465G Comparative Economic Systems ..............................3
ECO 467 American Economic History ..................................3
ECO 471 International Trade ............................................3
ECO 473G Economic Development ......................................3
ECO 477 Labor Economics ..................................................3
ECO 479 Public Economics ...............................................3
ECO 499 Seminar in Economics (Subtitle required) ...............3

Economics Minor for Secondary Education (21 hours)
Required (6 hours)
ECO 201 Principles of Economics I ......................................3
ECO 202 Principles of Economics II .................................3
Select for breadth any five of the courses listed for the major, excluding ECO 401 and 402 (15 hours)

Geography Major for Secondary Education (36 hours)
GEO 130 Earth’s Physical Environment ................................3
GEO 172 Human Geography ...........................................3
GEO 152 Regional Geography of the World or
GEO 160 Lands and Peoples of the Non-Western World ........3
GEO 300 Geographic Research ...........................................3
GEO 305 Elements of Cartography ......................................3
GEO 310 Quantitative Techniques in Geography ....................3
For breadth take at least one regional course and one thematic course in geography numbered at the 300 level or above (six hours)

Core Requirements
Select a minimum of 12 hours of courses within geography numbered at the 200 level or above (12 hours)

Geography Minor for Secondary Education (21 hours)
GEO 130 Earth’s Physical Environment ................................3
GEO 172 Human Geography ...........................................3
GEO 152 Regional Geography of the World or
GEO 160 Lands and Peoples of the Non-Western World ........3
GEO 300 Geographic Research ...........................................3
GEO 305 Elements of Cartography ......................................3
GEO 310 Quantitative Techniques in Geography ....................3
Nine additional hours in geography at the 200 level or above (nine hours)

Political Science Major for Secondary Education (30 hours)
Required
PS 101 American Government ........................................3
Select two (six hours)
PS 210 Introduction to Comparative Politics .......................3
PS 235 World Politics ......................................................3
PS 240 Introduction to Political Theory ..............................3
PS 372 Introduction to Political Analysis ..............................3
Plus a minimum of 21 additional semester hours, of which at least 15 must be at the 300 level or above. In order to expose the student to the various subfields of political science, the combination of courses selected must include at least one course in each of the subfields 1, 2, and 3 below, as well as one course in another subfield (21 hours)

1. Theory and Methodology
PS 240 Introduction to Political Theory ..............................3
PS 372 Introduction to Political Analysis ..............................3
PS 441G Early Political Theory .........................................3
PS 442G Modern Political Theory .....................................3
PS 545 American Political Thought ....................................3

2. Comparative Government
PS 210 Introduction to Comparative Politics .......................3
PS 411G Comparative Government—Parliamentary Democracies I ........................................3
PS 412G Comparative Government—Parliamentary Democracies II ........................................3
PS 415G Survey of Sub-Saharan Politics ..............................3
PS 419G The Governments and Politics of Eastern Asia ........3
PS 427G East European Politics ...........................................3
PS 428G Latin American Government and Politics .................3

PS 429G Government and Politics in Russia and the Post-Soviet States ........................................3

3. International Relations
PS 235 World Politics ......................................................3
PS 431G National Security Policy .......................................3
PS 433G Politics of International Economic Relations ................3
PS 436G International Organization ....................................3
PS 437G Dynamics of International Law ..............................3
PS 439G Special Topics in International Relations (Subtitle required) 3
PS 538 Conflict and Cooperation in Latin American Relations ................3

4. Political Process
PS 470G American Political Parties ....................................3
PS 472G Political Campaigns and Elections .........................3
PS 473G Public Opinion ...................................................3
PS 474G Political Psychology .............................................3
PS 475G Politics and the Mass Media ..................................3
PS 476G Legislative Process ..............................................3
PS 479 Women and Politics ..............................................3
PS 480G Government and the Economy ...............................3
PS 484G The American Presidency .....................................3
PS 571 Interest Groups ....................................................3

5. Public Administration
PS 489G The Analysis of Public Policy ................................3
PS 580 The Budgetary Process ..........................................3

6. Public Law and Judicial Behavior
PS 461G Civil Liberties ....................................................3
PS 463G Judicial Politics ..................................................3
PS 465G Constitutional Law ..............................................3

7. State and Local Government
PS 456G Appalachian Politics ...........................................3
PS 458 American State and Local Government ......................3
PS 557 Kentucky Government and Politics ..........................3

Note: The subfield designation for PS 391, PS 395, and PS 492 varies with the topic covered. Check with the department for current offerings relevant to social studies.

Political Science Minor for Secondary Education (21 hours)
Required
PS 101 American Government ........................................3
Select two (six hours)
PS 210 Introduction to Comparative Politics .......................3
PS 235 World Politics ......................................................3
PS 240 Introduction to Political Theory ..............................3
PS 372 Introduction to Political Analysis ..............................3
Twelve additional hours, of which at least nine must be at the 300 level or above.

Breadth requirement: same as for major; select one course from each subfields listed for the major (12 hours)

Psychology Major for Secondary Education (30 hours)
Required (13 hours)
PSY 100 Introduction to Psychology ....................................3
PSY 313 Personality and Individual Differences ......................3
PSY 314 Social Psychology and Cultural Processes ................3
PSY 333 Abnormal Psychology ...........................................3
Select one (3 hours)
PSY 331 The Psychology of Adjustment ..............................3
PSY 448 Applied Social Psychology ....................................3
PSY 449 Interpersonal Processes ........................................3
Select one (4 hours)
PSY 215 Experimental Psychology .....................................4
PSY 430 Research in Personality ........................................4
B.S. in Education with a major in STEM EDUCATION

UK Core Requirements
See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

Gen Ed courses may overlap with content major requirements. May not overlap with content support courses.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list .................3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list .................3

III. Intellectual Inquiry in the Social Sciences
PSY 100 Introduction to Psychology .......................4

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
Choose one course from approved list .................3

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I ..........3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II ..........3

VII. Quantitative Foundations
MA 113 Calculus I or MA 137 Calculus I With Life Science Applications ..........3

VIII. Statistical Inferential Reasoning
STA 210 Making Sense of Uncertainty: An Introduction to Statistical Reasoning ..........3

IX. Community, Culture and Citizenship in the USA
EPE 301 Education in American Culture .....................3

X. Global Dynamics
Choose one course from approved list .....................3

UK Core hours ..................................................32

Graduation Writing Requirement
EPE 301 Education in American Culture or MA 330 History of Mathematics .........3

Graduation Writing Requirement hours ..........3

Required STEM Education Core

Hours

*SEM 110 Introduction to STEM Education .....................2
*EDP 202 Human Development and Learning ..................3
*EDS 516 Principles of Behavior Management and Instruction ..................3
*SEM 421 STEM Methods I ..........................................3
*SEM 422 STEM Methods II .........................................3
*SEM 423 Assessment in STEM Education ....................2
*SEM 435 STEM Student Teaching in the Secondary School ...............10
*EPE 301 Education in American Culture .....................3

*Requires field experience hours.
*Required for TEP Application.

Required STEM Core hours .........................29

Specialization STEM Content
Course Work

Choose your content area below. This will serve as your secondary major. All content courses require a C or better and at least a 2.75 GPA.

Chemistry Major

Premajor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 113 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MA 114 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>CHE 105 General College Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHE 111 Laboratory to Accompany General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHE 107 General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 113 Laboratory to Accompany General Chemistry II</td>
<td>2</td>
</tr>
</tbody>
</table>

Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 226 Analytical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHE 230 Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 231 Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>CHE 232 Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 233 Organic Chemistry Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td>CHE 440G Introductory Physical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHE 441G Physical Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHE 572 Communication in Chemistry</td>
<td>2</td>
</tr>
</tbody>
</table>

Additional Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 211 General Physics</td>
<td>5</td>
</tr>
<tr>
<td>PHY 213 General Physics</td>
<td>5</td>
</tr>
</tbody>
</table>

Chemistry Electives

Minimum of 5 hours of upper-division electives .....5

Outside Electives

Minimum of 10 hours of 300-500 level courses with a prefix of: ANA, BCH, BIO, CME, CS, EES, MA, MI, MSE, PAT, PGY, PHA, PHIR, PHY, PM, RM, or STA. Credit will not be given for both BCH 401G and CHE 550 or CHE 552 ...10

Chemistry Premajor and Major hours ..........62

Eligible to meet a UK Core requirement.

*Required for TEP Application.

Computer Science Major

Leads to Initial Rank III Mathematics (grades 8-12) and endorsement in Computer Science (grades 8-12):

Premajor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 113 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MA 114 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>CS 100 The Computer Science Profession</td>
<td>1</td>
</tr>
<tr>
<td>CS 115 Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 216 Introduction to Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CS 275 Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 231 General University Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 241 General University Physics Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 232 General University Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 242 General University Physics Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>MA 231 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>EE 280 Design of Logic Circuits</td>
<td>3</td>
</tr>
<tr>
<td>STA 281 Probability and Statistics Using Interactive Computer Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CS 315 Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CS/MA 321 Introduction to Numerical Methods</td>
<td>3</td>
</tr>
<tr>
<td>CS/EE 380 Microcomputer Organization</td>
<td>3</td>
</tr>
</tbody>
</table>

Computer Science Electives

Complete 15 hours of electives, with at least one course from each group below:
**Mathematics Major**

Mathematics Core Courses
- CS 115 Introduction to Computer Programming 3
- MA 113 Calculus I 4
- MA 114 Calculus II 4
- MA 213 Calculus III 4
- MA 261 Introduction to Number Theory 3
- MA 322 Matrix Algebra and Its Applications 3

Mathematics Sequence
- Choose one. May substitute a different sequence with prior faculty approval (6 hours minimum):
  - MA 351 Elementary Topology I 3
  - MA 352 Elementary Topology Algebra II 3
  - OR
  - MA 361 Elementary Modern Algebra I 3
  - MA 362 Elementary Modern Algebra II 3
  - OR
  - MA 471G Advanced Calculus I 3
  - MA 472G Advanced Calculus II 3

Required Mathematics Electives
- Courses at the 300 level or above with exception of MA 241; 12 hours minimum:
  - MA 310 Mathematical Problem Solving for Teachers 3
  - MA/STA 320 Introductory Probability 3
  - MA 330 History of Mathematics 3
  - MA 341 Topics in Geometry 3

Optional Courses
- MA 214 Calculus IV (recommended for AP Calculus) 3
- MA 471G Advanced Calculus I (recommended for MA/MS in Mathematics) 3

Mathematics Major hours 39

*Eligible to meet a UK Core requirement.

*Required for TEP Application.

**Physics Major**

- CHE 105 General College Chemistry I 4
- CHE 107 General College Chemistry II 3
- CHE 111 Laboratory to Accompany General Chemistry I 1
- CHE 113 Laboratory to Accompany General Chemistry II 2

*CHE 105 General College Chemistry I 4
*CHE 107 General College Chemistry II 3
CHE 111 Laboratory to Accompany General Chemistry I 1
CHE 113 Laboratory to Accompany General Chemistry II 2

*Eligible to meet a UK Core requirement.

*Required for TEP Application.
DEGREE PROGRAMS
OUTSIDE THE COLLEGE OF EDUCATION

B.A. with a major in ART EDUCATION
The requirements for K-12 Art Education are listed in the Fine Arts section of this Bulletin.

COMMUNICATION SCIENCES AND DISORDERS
The undergraduate and graduate programs in communication sciences and disorders are now part of the Division of Communication Sciences and Disorders in the College of Health Sciences. Prospective students should refer to the Health Sciences section of this Bulletin.

B.M.M.E. with a major in MUSIC EDUCATION
The requirements for K-12 Music Education are listed in the Fine Arts section of this Bulletin.