

2021-2022 Graduate Bulletin

Vision, Mission, & Value Statement

Mission

Vision

Values

Compliance with Regulations

Accreditation

Mission

The University of Kentucky is a public, land grant university dedicated to improving people's lives through excellence in education, research and creative work, service, and health care. As Kentucky's flagship institution, the University plays a critical leadership role by promoting diversity, inclusion, economic development, and human well-being.

Vision

The University of Kentucky will be one of the nation's 20 best public research universities.

Values

The University of Kentucky is guided by its core values:

- Integrity
- Excellence
- Mutual Respect and Human Dignity
- Diversity and Inclusion
- Academic Freedom
- Shared Governance
- Work-life Sensitivity
- Civic Engagement
- Social Responsibility

Compliance with Regulations

The University of Kentucky complies with the federal and state constitutions, and all applicable federal and state laws, regarding nondiscrimination. The University provides equal opportunities for qualified students in all aspects of University operations, and does not discriminate on the basis of race, color, national origin, ethnic origin, religion, creed, age, physical or mental disability, veteran status, uniformed service, political belief, sex, sexual orientation, gender identity, gender expression, pregnancy, marital status, genetic information, social or economic status, or whether the person is a smoker or nonsmoker, as long as the person complies with University policy concerning smoking. Compliance with the Title IX of the Educational Amendments of 1972, which prohibits sex discrimination, and with Title VI of the Civil Rights Act of 1964 is coordinated by the Institutional Equity and Equal Opportunity Office, 013 Main Bldg., University of Kentucky, Lexington, KY 40506-0032, 859-257-8927.

Efforts to comply with the laws and regulations applicable to people with disabilities are also coordinated by the Office of Institutional Equity and Equal Opportunity, as required by Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990.

Questions concerning compliance with regulations may be directed to UK's Office of Institutional Equity and Equal Opportunity, or to the Director of the Office for Civil Rights, U.S. Department of Education, Washington, D.C.

Qualified students with disabilities should contact the associate dean and director of the Disability Resource Center at 859-257-2754 to request reasonable accommodation.

The University is in compliance with the Drug-Free Workplace Act of 1988 and the Drug-Free Schools and Communities Act Amendment of 1989. Questions may be directed to the Associate Provost for Student and Academic Life or the Office of the Vice President for Human Resources.

Information on the employment and earnings of public postsecondary education institution graduates in Kentucky is available at: <https://kcews.ky.gov/KYLMII/> Questions about admission to the University should be directed to the appropriate admissions office.

Accreditation

The University of Kentucky is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate, baccalaureate, masters, and doctorate degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or online at www.sacscoc.org for questions about the accreditation of the University of Kentucky.

Administration & Staff

Administration

Eli Capilouto, Sc.D., D.M.D., M.P.H.

University President

Robert S. DiPaola, MD

Acting University Provost

Martha L. Peterson, Ph.D.

Acting Dean of the Graduate School

Brian Jackson, Ph.D.

Senior Associate Dean of Academic Administration

Kevin D. Sarge, Ph.D.

Associate Dean of the Graduate School

Graduate School Staff

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Research at the University of Kentucky

The University of Kentucky is the major graduate and research institution of the Commonwealth, and the major land-grant university in the state. As such, it offers substantial programs in both basic and applied research. These research efforts are the life blood of graduate education programs that prepare new researchers who will continue to expand the boundaries of human knowledge and to seek answers to pressing problems of our complex society. Applied research programs in areas such as agricultural sciences, arts and sciences, business and economics, engineering sciences, mathematical sciences and physics, medicine, and mining and minerals serve the Commonwealth and the nation by addressing critical issues influencing the quality of life and economic well-being of our citizenry.

University faculty and research staff have expertise in many areas including the basic biological, medical, physical, and social sciences; the creative arts and the humanities; and engineering. These individuals conduct research that ranges from the investigation of philosophical and ethical dilemmas raised by

advances in science and technology to the practical application of basic knowledge in agriculture, energy, rehabilitation, and information retrieval, as well as in the economic development of the Appalachian region.

A significant aspect of research conducted at the University is the concern for its practical application for the betterment of society. Many of the techniques developed and ideas conceived in the laboratory and in advanced study evolve into technological developments of major significance.

Most research programs at the University are supported through federal, state and private sources. Application for such support and the fiscal administration of the monies received are overseen by the Office of Sponsored Projects Administration (OSPA). Programmatic organization and administration of research is provided by the various research institutes and multi-disciplinary centers and, in the case of individual faculty projects, by the regular departmental, school, and college structures.

The Graduate School

The University of Kentucky began offering graduate work in 1870 and awarded its first graduate degrees in 1876. The Graduate School became a distinct unit in the University organization in 1912. The mission of the Graduate School is to promote advanced study, graduate instruction, and research by the faculty and students of all colleges and departments. The total graduate resources of the University are merged under the Graduate School for the purpose of promoting the acquisition of knowledge in an atmosphere of free and lively inquiry. Graduate work is offered in most colleges in the University. A general description and tabulation of courses for each of the various programs is given in the Graduate Degree Programs section of this bulletin.

The Graduate Faculty

The Graduate Faculty consists of the Dean of the Graduate School, Associate Deans of the Graduate School, and Full and Associate Graduate Faculty Members. As the chief University agency for the promotion of the ideals of graduate study, it determines the policies of the Graduate School and makes recommendations to the University Senate and to the President, or to other administrative officials as appropriate. All rules affecting graduate work and the inauguration of new graduate programs must be approved by the Graduate Faculty. Any proposed change in the rules of the Graduate Faculty must be included in the agenda of its meeting and circulated to the Graduate Faculty at least 10 days prior to the meeting at which it is to be considered.

Any faculty member, regardless of specific title series of appointment, is eligible for consideration for membership on the Graduate Faculty. New Graduate Faculty members may be proposed to the Dean of the Graduate School at any time by the college deans and department chairs concerned, or in the case of persons not attached to a college faculty, by the Provost of the University. Eligibility qualifications are as follows:

- The doctor's degree or its equivalent in scholarly reputation.
- The rank of assistant professor (or equivalent) or higher.
- Scholarly maturity and professional productivity as demonstrated by publications, editorial services, research surveys, creative work or patents, and research in progress at the time of appointment.
- Demonstrated participation in graduate teaching and research in the program.

The Dean of the Graduate School is responsible for appointing and monitoring the progress of Associate Members of the Graduate Faculty. Associate members are authorized to teach graduate courses, direct master's theses, and serve on and co-chair doctoral committees. Associate membership is limited to a term of three years with reappointment possible after departmental review. There is no category for at-large graduate faculty membership.

Appointment to Full Graduate Faculty membership is made by the Provost and/or the Dean of the Graduate School after consultation with the Graduate Council when appropriate. Full members of the Graduate Faculty are particularly responsible for:

- Guidance of graduate student research and study to its completion. The finished work should meet or exceed accepted standards for publication, dissemination or performance within the particular discipline.
- Participation in the formulation of graduate curricula and policy.

In unique instances, an advanced assistant professor may be nominated by his or her chairperson for full membership in the Graduate Faculty. To be considered for this status by Graduate Council, a nominee must meet the following criteria:

- An associate member of Graduate Faculty who is an assistant professor may be put forward for full membership by the individual's department chairperson or Director of Graduate Studies (as appropriate) after a minimum of 2 years of employment at UK.
- The individual must show the appropriate level of scholarly research and productivity and important contributions to the department's graduate program, including graduate teaching.

After review by the Dean of the Graduate School, appropriate cases will be placed on the Consent Agenda of the Graduate Council for approval. Atypical cases may either be turned down by the Dean or brought to the Graduate Council for full discussion. Once Full Graduate Faculty status is attained, membership is continuous unless a change in status is recommended by a graduate program to the Dean of the Graduate School, who will present the recommendation to the Graduate Council.

On recommendation of the Director of Graduate Studies and with the approval of the Dean of the Graduate School, persons who normally do not hold academic appointment in the University, but who have demonstrated an interest in collaborative participation in its graduate programs, may be appointed as Auxiliary Graduate Faculty Members. They should hold the terminal academic degree in the field and possess a record of research or creative experience that would warrant their inclusion on advisory committees to assist graduate students in conducting research. Auxiliary Graduate Faculty may serve only as nonvoting members of the advisory committee.

Administrative officers assigning teaching and other duties to members of the Graduate Faculty who are taking an active part in the graduate program (i.e., are heavily engaged in directing theses and dissertations, carrying on productive research, etc.) should make appropriate reduction in the duties required of such faculty members.

Teaching at the Graduate Level

Courses intended for graduate studies at the University must be taught by faculty members who have the terminal degree in the discipline or a closely related discipline. These courses are designated by the numbers 400G - 799. The terminal degree in most cases is the doctorate. Ideally, these courses should be taught by Graduate Faculty members. If a program needs to assign a person without a terminal degree to teach a graduate level course, they must first petition the Dean of the Graduate School, explaining the unique circumstances and qualifications supporting this assignment. A copy of the diploma or transcript of each faculty member must be kept in the personnel file.

Courses that have both undergraduate and graduates in the courses are usually designated as 400G or 500 level courses. In all courses with a mixed student population, there must be a clear differentiation in the syllabus of course requirements and grading criteria for graduate students and undergraduates. Copies of these syllabi must be retained by the College.

The Dean of the Graduate School

The Dean of the Graduate School is charged with administering the policies adopted by the Graduate Faculty and the University Senate relating to graduate studies. The dean presides over all meetings of the Graduate Faculty and calls meetings of this faculty whenever it is advisable or whenever requested to do so by one-fourth of the membership. Recommendations are made by the dean to the Graduate Faculty regarding the requirements for advanced degrees, the regulations necessary to insure a high standard of graduate work and all other aspects of the graduate program. The graduate programs are administered in the interest of efficient instruction and the highest attainment possible on the part of each graduate student. The dean is responsible for determining and certifying to the Registrar candidates who have fulfilled requirements for advanced degrees. The President, the Executive Vice President for Research, the Provost, and the Dean of the Graduate School shall be ex officio members of all committees of the Graduate School.

The Graduate Council

The Graduate Council approves or disapproves proposals concerning courses offered for graduate credit, and advises and lends assistance to the Dean in executing the policies and regulations determined by the Graduate Faculty. Specifically, the Council:

- Evaluates department requests relating to proposed graduate programs.
- Reviews existing programs and curricula.
- In cooperation with the Dean, initiates recommendations to the Graduate Faculty (this procedure is not intended to prevent a faculty member from bringing any recommendation or request directly before the Graduate Faculty).

The Graduate Council is composed of 21 members and the Dean of the Graduate School, who serves as chair. There are nineteen faculty and two student representatives. Associate deans serve in a non-voting, ex officio capacity. Members representing a college or a combination of colleges are elected by the Graduate Faculty in the respective colleges. The term of office of the elected members is three years and that of the graduate students is one year. Members may not succeed themselves until three years have elapsed following the completion of their last term. A majority of the Graduate Council constitutes a quorum for the transaction of business.

The composition of the Graduate Council is as follows: two members from the College of Agriculture; four members from the College of Arts and Sciences; one member from the College of Business and Economics; two members from the Colleges of Communications and Information Studies, of Social Work and the Graduate Centers (Patterson and Martin Schools); two members from the College of Education; one member from the College of Engineering; one member from the Colleges of Design and of Fine Arts; one member from the Colleges of Health Sciences, Nursing, and Public Health; two members from the College of Medicine; one member from the Colleges of Pharmacy and Dentistry; two members appointed by the Dean of the Graduate School; and two student members selected by the Graduate Council. The membership of Graduate Council for 2020-21 is as follows:

- **Martha Peterson**, Chair of the Graduate Council, Acting Dean of the Graduate School
- **Jason Hans**, Human and Environmental Sciences, 2022
- **John Grove**, Plant and Soil Sciences, 2024
- **Emily Bacchus**, Political Science, 2023
- **Vincent Cassone**, Biology, 2023
- **Christopher Crawford**, Physics and Astronomy, 2024
- **Dierdra Reber**, Classical Languages, 2024
- **Huiwen Lian**, Business Administration, 2021
- **Namjoo Choi**, School of Information Science, 2022
- **Anthony Limperos**, Communication & Information, 2022
- **Molly Fisher**, STEM Education, 2023

- **Debra Harley**, Early Childhood, Special Education, and Counselor Education, 2023
- **Timothy Taylor**, Civil Engineering, 2022
- **Jonathan McFadden**, Visual Art, 2024
- **Johanna Hoch**, Athletic Training & Clinical Nutrition, 2022
- **Steven Van Lanen**, Pharmaceutical Sciences, 2022
- **Rolf Craven**, Pharmacology & Nutritional Sciences, 2023
- **David Orren**, Toxicology, 2022
- **Lindsay Fay**, Architecture, 2022
- **Folami Ladipo**, Chemistry, 2022

Directors of Graduate Studies

The Dean of the Graduate School, with the advice of the college dean(s) and the approval of the President, may recommend to the Graduate Faculty the areas of graduate study and research into which the University may be divided. The logical unit for an area is a department or center. By common consent, however, certain departments may be grouped into a single area to offer a graduate program and in exceptional cases a department may be divided into two or more areas to offer programs in the respective areas. Directors of Graduate Studies (DGSs) are the local representatives of each graduate program. They provide for the program's administration and act as the official liaison with the Graduate School. Directors of Graduate Studies are responsible to the Graduate Faculty of their program and to the Dean of the Graduate School for the recruitment, admission, advising, and examination of students in their program. In addition to Directors of Graduate Studies for specific programs, some colleges have designated individual faculty members as Associate Deans for Graduate Studies to serve as the local extension of the Graduate School at the college level.

Directors of Graduate Studies are appointed by the Dean of the Graduate School after consultation with the respective Graduate Faculty and administration in a program. The DGS is normally a tenured faculty member, holding the rank of Associate Professor or above, and is a full member of the Graduate Faculty. Upon the appointment of each Director of Graduate Studies, the Dean of the Graduate School shall draw the attention of the appointee to the existence and location of the official University policies and guidelines that affect graduate faculty, graduate students, and student applicants.

The Director of Graduate Studies reports directly to the Dean of the Graduate School or to the Dean's designee on all matters relating to graduate education in the program. The DGS is responsible to the Dean of the Graduate School for the administration of the specific graduate program, including maintenance of records, administration of graduate program funds, admission of graduate students, any affiliated University Scholars Program, fellowships, program requirement changes and new programs, advising and registration, appointment of advisory and examination committees, and other degree requirements related to the graduate program. Additionally, the DGS serves as the focal point for dissemination of information from the Graduate School.

The Director of Graduate Studies serves as program advisor to each student until the student has a thesis or dissertation director. The DGS then recommends that the thesis or dissertation director be appointed the student's advisor or committee chair. In areas where these are not required, the DGS is the advisor of all students not writing theses. All student schedules should be endorsed by the student's advisor. If it is desirable, a DGS may recommend that additional advisors in the program be appointed. A DGS who is to be absent from the University for as long as a semester must inform the Dean so that a substitute may be appointed. A complete list of current Directors of Graduate Studies can be found at <https://gradschool.uky.edu/dgs>

Establishment and Modification of Graduate Programs

An area that wishes to establish a new graduate program or modify an existing program must submit a request to the Graduate Council, which in turn will make a recommendation to the Graduate Faculty. For information on the steps involved in this process see: <http://gradschool.uky.edu/submit-program-graduate-certificate-or-academic-policy-proposal>.

Graduate Student Professional Enhancement

The Graduate School's Office of Graduate Student Professional Enhancement (GSPE) provides programs and activities across three main foci: teaching assistant (TA) development, professional development and PhD-level career exploration and preparation.

Examples of teaching assistant development activities include the following:

- University-wide TA and International TA orientations and microteaching sessions
- Language screenings for TAs whose native or primary language is not English
- Pedagogy workshops and special events throughout the academic year (often in partnership with CELT)
- GradTeach Live, a campus-wide competition encouraging effective communication of one's teaching philosophy and how that philosophy is enacted in the classroom or lab
- Multidisciplinary teaching-related courses (GS 610, GS 620, GS 630)
- Institutional subscription to 20-Minute Mentor Commons, an online library of more than 150 short videos on a wide array of pedagogical topics
- Consultations on teaching-related issues
- Classroom observations and feedback (in partnership with CELT)
- Coordination of mandatory SACS-related documentation on TA credentialing (observations, evaluations, preparation, departmental orientations)

These efforts occur in conjunction with departmental TA orientations, in-service activities, and supervision. Some departments require TA participation in workshops and/or departmental or centralized teaching courses.

Examples of graduate student professional development efforts include the following:

- Workshops, consultations and e-resources
- GradDegree+, a partnership with UK HR Training and Development, offering various tracks of transferable skills workshops
- Coordination with departmental graduate student development efforts and national efforts (AAC&U, Council of Graduate Schools, Graduate Career Consortium)
- Partnership with the Graduate Student Congress, which offers organizational and leadership development opportunities, a series of annual programs (such as a conference on Life After Grad School) and other ongoing activities

Research communication initiatives, including a campus-wide 3-Minute Thesis competition (GradResearch Live), which focuses on the skills of communicating research effectively to public audiences. Examples of career development initiatives for graduate students include the following:

- Preparing Future Faculty for-credit courses (GS 600, 610, 620, 630, 640, 650, 695 and 699) Courses may be taken as stand-alones or as a set leading to a Graduate Certificate in Learning and Teaching
- Partnerships with colleges and universities in the region to provide professional development and adjunct employment opportunities for UK graduate students
- A new partnership with the Stuckert Career Center, which beginning in Fall 2021 houses a PhD-level graduate career developer offering individual and group consultations as well as outreach to colleges and departments
- An institutional subscription to Aurora: Beyond the Professoriate, a robust tool for exploring and learning about careers through video interviews with PhD holders inside and outside academia. Also offers online workshops and career development conferences.
- Institutional access to ImaginePhD (UK is a founding sponsor), a career exploration tool, including interests inventories, specifically for graduate students in the humanities and social sciences

Graduate Centers

The Graduate School administers two multidisciplinary Graduate Centers.

The Patterson School of Diplomacy and International Commerce

The Patterson School of Diplomacy and International Commerce offers an interdisciplinary master's degree which can be tailored to meet the career needs of individual students. The program is especially useful for students desiring careers in any of the non-academic fields in foreign affairs such as international banking, commerce and journalism, or service with governmental agencies or international organizations. To assure the interdisciplinary character of the degree, students may concentrate their work in a specific geographical area or focus on certain aspects of international affairs. In addition, the Patterson School serves in an advisory capacity to Ph.D. programs in departments offering internationally-oriented doctoral degrees in various colleges on campus. For more information see the Patterson School web-site at: <https://www.uky.edu/pattersonschool/>

Martin School of Public Policy & Administration

The Martin School offers four multidisciplinary degree programs-the Master of Public Administration, the Master of Public Policy, the Master of Public Financial Management, and the Ph.D. in Public Policy and Administration-and engages in research and public service activities. The disciplines represented by the School's faculty are management, finance, economics, industrial engineering, political science, and health administration. The research and public service components of the Martin School offer the School's faculty, staff, and graduate students the opportunity to engage in interdisciplinary research on public policy issues. For more information see the Martin School web-site at: <https://martin.uky.edu/>

Graduate Admissions

Kentucky Residency

The Academic Common Market

Admission Procedures

International Applications

Support Services for the International Student

Special Admission Categories

Dual Degree Programs

Collaborative Degree Programs

Doctoral Programs with Other Universities

Kentucky Residency

According to law, the University of Kentucky and all other state-supported institutions of higher education assess tuition on the basis of Kentucky or non-Kentucky residency. The policy for determining residency is established by the Commonwealth of Kentucky Council on Post Secondary Education (see Residency Policy at <http://www.uky.edu/registrar/residency>). Students who are unsure of their residency status should check with the Registrar's Office before applying for admission.

The Academic Common Market

Kentucky is a participating state in The Academic Common Market, an interstate agreement among 16 primarily Southeastern states for sharing academic programs. Students who qualify for admission may enroll in a specific program in another Academic Common Market state on an in-state tuition basis. At present, the agreement has been limited to less-common graduate programs. For information, write: Southern Regional Education Board, 130 Sixth Street N.W., Atlanta, Georgia. For information about University of Kentucky programs in the Academic Common Market, contact the Academic Common Market Institutional Coordinator, Office of the Registrar, 100 Funkhouser Building, University of Kentucky, Lexington, KY 40506-0054, Phone: 859.257.3256, E-mail: smcgurk@uky.edu, <https://www.uky.edu/registrar/academic-common-market>.

Admission Procedures

The University of Kentucky is committed to a policy of providing educational opportunities to all qualified students regardless of economic or social status, and will not discriminate on the basis of race, color, religion, sex, marital status, beliefs, age, national origin, sexual orientation, or physical or mental disability.

Students seeking admission to the University of Kentucky Graduate School must satisfy the following requirements:

- Students seeking admission to the Graduate School must have obtained a baccalaureate degree, prior to the start of the term for which s/he is admitted, from a fully accredited U.S. institution of higher learning or from a recognized foreign institution. An accredited U.S. institution is one that is accredited by the appropriate regional agency (Accrediting Commission for Community and Junior

Colleges Western Association of Schools and Colleges, Higher Learning Commission, Middle States Commission on Higher Education, New England Association of Schools and Colleges Commission on Institutions of Higher Education, Northwest Commission on Colleges and Universities, Southern Association of Colleges and Schools Commission on Colleges, WASC Senior College and University Commission). A recognized foreign institution is an institution that is recognized by that nation's Ministry of Education or similar authority as a postsecondary, academic degree-granting institution.

- An overall grade point average of 2.75 on undergraduate work and 3.00 on all graduate work is required by the Graduate School. Individual departments may require higher grade point averages. Upon admission students must have official transcripts sent by each institution of higher learning previously attended directly to the Graduate School. To be official, records must bear the Registrar's signature and/or official seal of the issuing institution. A summary of credits transferred and recorded on the transcript issued by the institution granting the degree will not suffice.
- Applicants must submit scores on the verbal, quantitative and analytical writing portions of the aptitude section of the Graduate Record Examination (GRE) unless their chosen program is listed below**. This rule may be waived in individual cases upon recommendation of the Director of Graduate Studies in the individual department or program. However, in cases where waivers are granted, the GRE scores must be submitted before the end of the first semester of graduate study. The advanced portion of the GRE may be required by individual programs. Test scores must be sent directly to the University of Kentucky Graduate School from ETS.

Domestic applicants (U.S. citizens or resident aliens) must pay a \$65 application fee. This must be paid by credit card at the time of on-line application submission.

**No GRE or GMAT is required for admission to:

- Accounting, MSAC (MSAC for UK students only)
- Applied Anthropology, MA
- Anthropology, PhD
- Applied Behavior Analysis, MS
- Applied Environmental and Sustainability Studies, MA
- Applied Statistics, MAS
- Art Studio, MFA
- Arts Administration, MA
- Athletic Training, MS
- Biology, MS
- Biology, PhD
- Business Administration, MBA (for Greek cohort)
- Chemistry, MS
- Chemistry, PhD
- Classics, MA
- Communication, MA
- Communication, PhD
- Communication Sciences and Disorders, MSCSD
- Community and Leadership Development, MSCLDE
- Computer Science, MS
- Computer Science, PhD
- Counselor Education, MAC
- Creative Writing, MFA
- Curatorial Studies, MFA
- Data Science, MS
- Digital Mapping, MS

- Diplomacy and International Commerce, MA
- Education and Counseling Psychology - Counseling Psychology, MSEDU
- Education and Counseling Psychology - Counseling Psychology, PhD
- Education Sciences, PhD - Educational Leadership Option
- Education Sciences, PhD - Educational Policy Studies: Cultural & Philosophical Inquiry option
- Education Sciences, PhD - Educational Policy Studies: Evaluation & Policy option
- Education Sciences, PhD - Quantitative and Psychometric Methods option
- Educational and Counseling Psychology, MSEDU
- Educational Leadership, MED
- Educational Leadership, EDS
- Educational Policy Studies, MSEDU
- Educational Policy Studies, Measurement, and Evaluation, EDD
- Educational, School, and Counseling Psychology - School Psychology, PhD
- English, MA
- English, PhD
- Entomology, MS
- Entomology, PhD
- Exercise Science, PhD
- Family Sciences, MSFS
- Family Sciences, PhD
- Forest and Natural Resource Sciences, MSFNRS
- Forest and Natural Resource Sciences, PhD
- French, MA
- Gender and Women's Studies, PhD
- Geography, MA
- Geography, PhD
- Geological Sciences, MS
- Geological Sciences, PhD
- German, MA
- Health Administration, MHA
- Higher Education, MSEDU
- Hispanic Studies, MA
- Hispanic Studies, PhD
- Historic Preservation, MHP
- History, MA
- History, PhD
- Information Communication Technology, MS
- Education - Instructional Systems Design, MSEDU
- Integrated Plant and Soil Sciences, MS
- Integrated Plant and Soil Sciences, PhD
- Interdisciplinary Early Childhood Education, MSEDU
- Kinesiology and Health Promotion, MS
- Kinesiology and Health Promotion, EDD
- Library Science, MSLS
- Linguistic Theory and Typology, MA
- Manufacturing Systems Engineering, MSMSYE
- Marketing, MS
- Mathematics, MA

- Mathematics, MS
- Mathematics, PhD
- Music - Performance, MM
- Music - Composition, MM
- Music - Music Education, MM
- Music Therapy, MM
- Music Theory, MA
- Musical Arts, DMA
- Nutrition and Food Systems, MSNFS
- Nutritional Sciences, MSNS
- Orientation and Mobility, MAEDU
- Pharmaceutical Sciences, PhD
- Philosophy, PhD
- Physics, MS
- Physics, PhD
- Political Science, MA
- Political Science, PhD
- Psychology - Experimental Psychology, MA
- Psychology - Experimental Psychology, MS
- Psychology - Clinical Psychology, MS
- Psychology - Clinical Psychology, PhD
- Psychology - Experimental Psychology, PhD
- Public Administration, MPA
- Public Financial Management, MPFM
- Public Health, MPH
- Research Methods In Education, MS
- Retailing and Tourism Management, MSRAT
- Science Translation and Outreach, MS
- Social Work, MSW
- Social Work, PhD
- Sociology, PhD
- Special Education, MSEDU
- Sport and Exercise Psychology, MS
- Studies in Higher Education, PhD
- Teacher Preparation Program in Visual Impairments, MSEDU
- Teaching English as a Second Language, MA
- Veterinary Science, MS
- Veterinary Science, PhD

***For holders of M.D., D.M.D., D.D.S., Pharm.D., D.V.M., D.O., D.N.P., D.Sc., or Ph.D. degrees, no GRE or GMAT is required for admission to:*

- Business Administration, MBA
- Clinical and Translational Science, PhD
- Dentistry, MS (for domestic students only)
- Public Administration, MPA (for PharmD students applying to this program)
- Public Health, MPH
- Toxicology and Cancer Biology, PhD

****No GRE or GMAT is required for admission in the following categories: Graduate certificate, Professional/Graduate dual degree programs (for example Pharm.D./MPA), Post-baccalaureate, University Scholars (all programs), Fifth Year, Rank I, and other certifications.**

The full list of GRE Waivers can also be viewed at <https://gradschool.uky.edu/application-process#GREWaivers> .

Completed applications must be received no later than one month before the beginning of the term the applicant intends to begin graduate work (see Calendar). Some programs maintain earlier deadlines for admission. The application and information is at <http://gradschool.uky.edu/admissions>

International Applications

The following additional requirements apply to international applicants:

- An international applicant must typically hold a four-year bachelor's degree (exceptions to this rule include countries in the European Union, Canada, Australia and New Zealand), have excellent grades and rank in the top quarter of their classes (for Indian students: a first-class record is normally expected although high second-class holders in non-science areas may be considered if they can offer further evidence of having been in at least the top 10 percent of their graduating class). When credentials are submitted in support of any application, they should be either the original documents or certified copies (i.e., copies certified or attested as "true copies" by a notary public). An official translation must be attached to these records if they are in a language other than English. Credentials should include a record of all degrees earned, detailing all subjects taken and grades obtained. Grades must be listed in the indigenous system.
- The University of Kentucky requires a minimum score of 79 on the internet-based Test of English as a Foreign Language (TOEFL) for all applicants whose native language is not English (see www.toefl.org). Permanent residents who graduate from US institutions or schools outside the US in English-speaking countries such as Australia, Great Britain, and English-speaking Canadian provinces, are not required to take the TOEFL. Permanent residents who graduate from other institutions outside the US must provide TOEFL scores. Test scores must be sent directly to the University of Kentucky Graduate School from ETS. Applicants may also utilize the International English Language Testing System (IELTS) to satisfy the language requirement. A minimum mean band score of 6.5 is required.
- Entering international students must certify that they have at least \$51,219* available for each 12-month period of study. It is estimated that this amount will cover the cost of tuition, fees, books and supplies, room and meals, health insurance and incidentals, for a single person.

Applicants must certify \$7,350* per year for their spouse and \$5,040* per year for each additional dependent. An I-20 (or IAP-66) is issued to applicants who have been academically accepted only upon receipt of the required financial information (*subject to change without notice).

International applicants must pay a \$75 application fee.

Complete international applications must be received by April 15* for the fall semester and September 15* for the following spring semester. *Subject to final approval

Upon arrival, admitted international students:

- must have on hand a minimum of \$1500, or \$2000 if bringing dependent(s). Self-supported students must have on hand at the beginning of each registration \$19,440 to pay for tuition and fees, room and board, and health insurance.

- must obtain a tuberculin screening test and reading, and complete a health history form from the Student Health Service before registration will be allowed. This should be done as soon as possible following arrival on the University campus (See also Health Services).

Support Services for the International Student

International Student Services: International Students and Scholars Services division, part of the International Center, is the focal point for international student services. It orients students to a new educational system and to American culture, and provides a continuing source of information, counsel and friendship through their stay. The ISSS office is charged with the responsibility of interpreting immigration regulations, which affect international students and scholars. It also sponsors cross-cultural programs on campus and in the community designed to encourage communication and understanding between Americans and internationals. Among the programs offered are the K-Week, and the International Hospitality Program. The International Center is located in Bradley Hall.

Health Services: The University has an excellent health care clinic for outpatient care that is of special importance to international students (see section on Health Services). All international students on F-1, F-2, J-1 and J-2 visas are automatically enrolled in the University of Kentucky student insurance plan. Students who have purchased health insurance in their home country may be eligible for a waiver. Because of the extremely high cost of health care, it is imperative that a student have insurance for himself or herself, spouse and children. Health insurance application forms can be obtained in Bradley Hall.

Program in English for International Students: The English department sponsors the Center for English as a Second Language. The center offers eight-week terms of study; students may join in June, August, October, January or March. Students receive 160 hours of intensive English instruction in an eight-week period. No college credit is given for the course of study, but students are given certificates of completion for the Center's program. Sometimes students are admitted to the Graduate School contingent upon successful completion of the program. The center is authorized under federal law to enroll nonimmigrant alien students. For further information go to <https://esl.as.uky.edu/> or write to The Center for English as a Second Language, 1235 Patterson Office Tower, Lexington, KY 40506.

Sponsored International Graduate Students: International graduate students who are financed and monitored by sponsoring agencies, can be provided with special placement, advising and management services. Literature describing these services is available from the Office of International Affairs. The sponsoring agency is assessed a fee of \$300 per semester per student for these special services.

Special Admission Categories

Conditional Admission

Students wishing to pursue an advanced degree who are temporarily ineligible for regular graduate admission status may be recommended by the Director of Graduate Studies for conditional admission status in the following cases:

- Receipt of a final undergraduate transcript showing an awarded Bachelor's degree.

- Receipt of official GRE (or equivalent) scores.

These requirements will be monitored by the Graduate School and must be met prior to the date set for priority registration during the first semester of enrollment. Students will not be allowed to priority register if these requirements are not met.

Programs will also have the option to recommend that students be admitted "conditionally" for other reasons including:

- Completion of deficiencies, such as taking specific required undergraduate courses
- Program review upon completion of a specified number of hours of course work

These requirements will be monitored by the program; the Graduate School should be notified when they have been met so that the student's status can be changed to regular admission. Approval to proceed with the doctoral qualifying examination or the master's final examination will not be granted to student's remaining in conditional status.

Post-Baccalaureate Graduate Student

Students who hold a baccalaureate degree from a fully accredited institution of higher learning and who wish to pursue graduate study without a degree objective may apply for admission as post-baccalaureate graduate students. Note that post-baccalaureate status is not a form of probationary admission to a degree-granting graduate program. Post-baccalaureate students may take graduate courses for graduate credit. Permission to enter any graduate class as a post-baccalaureate student will be granted only if the student meets the prerequisites for that course and if space is available.

An application for admission to the Graduate School as a post-baccalaureate graduate student should be filed in the Admissions Office at least two weeks in advance of the registration date for the term in which the student plans to enroll. An overall undergraduate grade point average of 2.50 or better and 3.00 on all previous graduate work (both on a 4.00 point scale) are required by the Graduate School for admission. GRE scores are not required.

A post-baccalaureate student who later wishes to apply to enter a degree-granting graduate program must have a 3.00 or better grade point average on all course work, graduate or undergraduate, attempted as a post-baccalaureate. A standard application form must be presented to the Graduate School requesting admission to a specific program.

University Scholars Program (Combined Bachelor's/Master's or Doctoral Degree)

The University Scholars Program offers particularly gifted and highly motivated students the opportunity of integrating their undergraduate and graduate courses of study in a single continuous program culminating in both a baccalaureate and a master's or doctoral degree. The total number of hours for the combined program may be as many as 12 less than the total required for the bachelor's and the master's or doctoral degrees separately. The requirements for the bachelor's degree are unaffected.

Application to the program should be submitted at the end of the student's junior year. Applicants should have completed at least 90 credit hours of work toward the bachelor's degree, or be eligible for senior standing in the semester they are admitted to the program. The master's program should be in the field of the undergraduate major (there are some exceptions made), and the undergraduate grade point average must be at least a 3.50 in the applicant's major field and 3.20 overall. University Scholars may take no more than 16 credit hours per semester, except by recommendation of their Director of Graduate Studies and by

approval of the Dean of the Graduate School. Students must have an undergraduate advisor and a graduate advisor. A jointly planned program must be prepared for each student.

Applicants must submit both a Graduate School application and a University Scholars Form: <http://gradschool.uky.edu/university-scholars-program> . Students must register in the Graduate School for all work taken following admission to the University Scholars Program. The primary classification of University Scholars will be undergraduate until they have completed all requirements for their undergraduate degree, and undergraduate tuition rates will be applied to the 12 hours (or less) of graduate level coursework designated for dual credit in this program. University Scholars cannot receive Graduate School support until they have completed the credit hours required for their undergraduate degree.

The following graduate degree programs currently offer University Scholars opportunities through participating undergraduate programs: <https://gradschool.uky.edu/university-scholars-program>

Resulting Degree	Feeder Program
Accounting, MSAC	Accounting, BS
Agricultural Economics, MS	Agricultural Economics, BA from UK or Georgetown
Applied Anthropology, MA	Anthropology, BA
Art History, MA	Art History, BA
Biomedical Engineering, MSBE	Biosystems and Agricultural Engineering Electrical Engineering, BS Biomedical Engineering, BS
Chemical Engineering, MSCHE	Chemical Engineering, BS
Chemical Engineering, PhD	Chemical Engineering, BS
Civil Engineering, MSCIE	Civil Engineering, BS
Classics, MA	Modern and Classical Languages, Literatures, and Cultures, BA - Classics option
Computer Engineering, MSCOE / Computer Engineering, PhD	Computer Engineering, BS Computer Science, BS
Computer Science, MS	Computer Science, BSCS
Counselor Education, MAC	Kentucky State University Graduate
Diplomacy and International Commerce, MA	Agricultural Economics, BS
Electrical Engineering, MSEE / Electrical Engineering, PhD	Electrical Engineering, BSEE

	Computer Engineering, BSCOE
English, MA	English, BA English, BS
Family Sciences, MSFS	Family Sciences, BS
French, MA	Modern and Classical Languages, Literatures and Cultures, BA - French and Francophone Studies option
Geological Sciences, MS	Geological Sciences, BA Geological Sciences, BS
German, MA	Modern and Classical Languages, Literatures and Cultures, BA/BS - German Studies option
Hispanic Studies, MA	Spanish, BA Spanish, BS
History, MA	History, BA
Linguistic Theory and Typology, MA	Linguistics, BA Linguistics, BS
Manufacturing Systems Engineering, MSMSYE	Electrical Engineering, BS Mechanical Engineering, BS
Materials Science and Engineering, MSMSCE	Materials Engineering, BSMAE
Mathematics, MS / Mathematics, MA	Mathematics, BS Mathematics, BA
Medical Sciences, MS	Agricultural Biotechnology, BS
Mining Engineering, MSMIE	Mining Engineering, BS
Music - Performance, MM	Music Performance, BM
Nutrition and Food Systems, MSNFS (formerly Hospitality and Dietetics Administration)	Dietetics, BS Hospitality Management and Tourism, BS
Philosophy, MA	Philosophy, BA Philosophy, BS

Physics, MS	Physics, BS
Public Health, MPH	Health, Society and Populations, BS
Public Health, MPH	Public Health, BA
Public Administration, MPP	Public Policy, BA
Retailing and Tourism Management, MSRAT	Nutrition and Food Systems, BS
Social Work, MSW	Social Work, BA

Graduating Seniors as Part-Time Students

Seniors at the University of Kentucky lacking no more than 6 credit hours for graduation and having an undergraduate average of at least 2.75 on all work attempted may register in the Graduate School in conditional status with the consent of the undergraduate college dean, the appropriate Director of Graduate Studies, and the Dean of the Graduate School. The total load of such students may not exceed 12 credit hours. Graduate credit will be allowed for each credit hour of graduate work beyond the six or fewer credit hours needed to complete undergraduate requirements. Requirements for the undergraduate degree must be completed during the semester in which the student is allowed to register for part-time graduate work. Students applying for admission to the Graduate School under these conditions must fill out a petition form listing the course or courses to be taken to complete the undergraduate requirements <https://gradschool.uky.edu/graduating-seniors-part-time-graduate-students>.

Non-Degree Certification Students

The University of Kentucky offers admission to students pursuing course work applicable toward non-degree certification. These include Rank I Certification and Fifth Year Certification through the College of Education. This is a separate type of admission, which differs from post-baccalaureate status. Minimally, the Graduate School requires applicants for certification to meet the same admission requirements as for post-baccalaureate status, but the unit often imposes additional and more rigorous requirements for admission. It is best to consult with the Director of Graduate Studies in the specific area for which certification is sought prior to applying. Certification students who later wish to transfer credits into a master's or specialist program at the University of Kentucky may do so. The requirements and limitations are the same as for any transfer of credits into such a program.

Visiting Students

Students who are enrolled in a graduate program at another institution and plan to attend the University of Kentucky as a Visiting Student must submit the following form (<https://gradschool.uky.edu/visiting-students>) when filing an application (transcripts are not required). Visiting Student admission is for one semester only and credit earned in that status is not applicable to a University of Kentucky degree.

Leave of Absence

Enrolled graduate students at the University of Kentucky that sit out for one or more semesters will need to complete a new application and pay the application fee in order to be considered for readmission. In many

instances this requirement can be avoided by requesting a "leave of absence". In addition to avoiding the application process, this status will allow the student to priority register in preparation for their return to UK.

Procedurally, students should contact their Director of Graduate Studies (DGS) to seek approval for the leave prior to the beginning of the semester in question. If approved, the DGS will contact their Graduate School admissions officer who will modify the record accordingly. No more than two consecutive and four total semesters in leave of absence status may be requested. International students considering a leave of absence are strongly encouraged to discuss their plans with their advisor at the International Center prior to making a formal request.

Postdoctoral Fellow

Postdoctoral fellowships are available in many research programs. Information concerning the terms of these fellowships is available in the individual departments. Postdoctoral fellows are required to register with the Graduate School through their departments.

Dual Degree Programs

B.S. Engineering/M.B.A.

The College of Business and Economics and the College of Engineering offer the opportunity to obtain the Bachelor of Science in Engineering (B.S.) and Master of Business Administration (M.B.A.) degrees in a five-year dual degree program. In addition to regular engineering courses, prerequisite undergraduate courses in accounting, economics, and statistics are taken during the first three years of study to prepare students for management, economics, business, and finance M.B.A. courses. The students' senior year marks the beginning of the graduate M.B.A. courses and interaction with non-engineering M.B.A. students. During the summer prior to the fifth year, the students participate in study abroad designed expressly for the program, thereby enhancing and broadening their cross-cultural experience.

B.S. Engineering/M.P.A.

The Martin School of Public Policy and Administration and the College of Engineering offer the opportunity to obtain the Bachelor of Science in Engineering (B.S.) and Master of Public Administration (M.P.A.) degrees in a five-year dual degree program. Typically, students will enroll in the College of Engineering as freshmen and take courses required for the B.S. degree through the junior year. During the senior or fourth year, students will begin to take M.P.A. courses. In the fifth year, students will take M.P.A. classes exclusively. Students must complete an internship in the summer following the fifth year of course work.

J.D./M.A. In Diplomacy

The University of Kentucky offers a year and half, 30-hour Master of Arts (M.A.) degree in Diplomacy through the Graduate School. The College of Law offers a three-year, 90-hour Juris Doctorate (J.D.). The J.D./M.A. dual degree is the only one of its type offered in the Commonwealth. It permits students to gain both degrees in a total time period of one semester less than if the degrees were earned independently. For information, contact the Director of Graduate Studies in the Patterson School of Diplomacy and International Commerce or the College of Law.

M.S. in Manufacturing Engineering and B.S. In Electrical or Mechanical Engineering

The College of Engineering offers an opportunity to receive a Bachelor of Science in Electrical or Mechanical Engineering and a Master of Science in Manufacturing Systems Engineering. The dual degree program is structured to appeal to engineering students who plan a career in manufacturing and is especially structured to allow students to be involved in engineering co-op employment while pursuing the dual degree.

Upon completion of their sophomore year in Electrical or Mechanical Engineering, students should apply to the Graduate School to be conditionally admitted into the program. Full admission would require formal application to the Graduate School and a minimum GPA of 3.00 and completion of their junior year. Students must have a strong interest in manufacturing, and preference will be given to students who will be in a co-op work program.

J.D./M.B.A.

The College of Business and Economics and the College of Law offer the opportunity to obtain the Master of Business Administration (M.B.A.) and Juris Doctor (J.D.) degrees in a dual degree program. Both schools recognize that some aspects of business and law are compatible and interrelated. Consequently, students can usually obtain both degrees in less time than if the degrees were pursued separately. As a result, students gain marketable skills and specialized employment opportunities in less time than might otherwise be required. Students interested in the J.D./M.B.A. program must apply to both the College of Law and the Graduate School.

J.D./M.P.A.

The University of Kentucky offers a two-year, 45-hour professional Master of Public Administration degree through the Graduate School. The College of Law offers a three-year, 90-hour Juris Doctorate. The M.P.A. program has been professionally reviewed and recognized by the National Association of Schools of Public Affairs and Administration. The College of Law is accredited by the American Bar Association and is a member of the Association of American Law Schools. The J.D./M.P.A. dual degree is the only one of its type offered in the Commonwealth. It permits students to gain both degrees in a total time period of one year less than if the degrees were earned independently. For information, contact the Director of Graduate Studies in Public Administration or the College of Law.

M.D./M.B.A.

The University of Kentucky M.D./M.B.A. program is designed to provide students with the necessary educational foundation so that they not only are prepared to begin practice as doctors, but also to assume managerial responsibility in a variety of health care settings. The integrated, sequenced program of study consists of the full, four-year Kentucky Medical Curriculum and foundation business courses followed by M.B.A. courses. The program may normally be completed in five years. Students interested in the program must apply to both the College of Medicine and the Graduate School.

M.D./M.P.H.

The University of Kentucky M.D./M.P.H. combined degree provides well-trained physicians with additional skills and knowledge in public health policies and procedures, enabling them to provide service to individuals within the context of a healthy community and its unique population characteristics. With careful planning, the M.D. and M.P.H. tracks can be completed in five years. Students interested in the program must apply to both the College of Medicine and the Graduate School.

M.D./PH.D.

Students combining studies toward a Ph.D. degree and an M.D. degree in one of the established programs of the Graduate School must be admitted to both programs. Before applying for admission to the Graduate School, applicants should consult with the Director of Graduate Studies of the graduate area of interest. Copies of the guidelines for students wishing to pursue the combined M.D./Ph.D. degrees may be obtained in the office of the Associate Dean for Academic Administration in the Graduate School.

PHARM.D./M.B.A.

The College of Business and Economics and the College of Pharmacy offer the opportunity to obtain the Master of Business Administration (M.B.A.) and Doctor of Pharmacy (Pharm.D.) degrees in a dual degree program. Students can usually obtain both degrees in four years plus three summers instead of the five and one-half years required if the degrees were pursued separately. The dual degree program is designed to provide students with the necessary educational foundation so that they not only are prepared to begin practice as a pharmacist, but to assume managerial responsibility in a variety of health care settings. A student desiring admission into the dual degree program will be required to apply formally and independently to both programs.

PHARM.D./M.P.A.

The University of Kentucky offers a two-year, 45-hour professional Master of Public Administration degree through the Graduate School. The College of Pharmacy offers a four-year, 158-hour Doctor of Pharmacy. The Pharm.D./M.P.A. dual degree is the only one of its type offered in the Commonwealth. The dual degree program permits a student to gain both degrees in a total time period less than if the degrees were earned independently. The dual degree program is highly desirable for persons seeking careers in state and federal regulatory and administrative agencies, the pharmaceutical industry, managed care organizations, and academia. For information, contact the Director of Graduate Studies in Public Administration or the College of Pharmacy.

PHARM.D./M.P.P.

The University of Kentucky offers a two-year, 40-hour Master of Public Policy degree through the Graduate School. The College of Pharmacy offers a four-year, 158-hour Doctor of Pharmacy. The Pharm.D./M.P.P. dual degree is the only one of its type offered in the Commonwealth. The dual degree program permits a student to gain both degrees in a total time period less than if the degrees were earned independently. The dual degree program is highly desirable for persons seeking careers in state and federal regulatory and administrative agencies, the pharmaceutical industry, managed care organizations, and academia. For information, contact the Director of Graduate Studies in Public Administration or the College of Pharmacy.

PHARM.D./M.P.H.

The University of Kentucky currently offers a 42-credit hour professional Master of Public Health (MPH) degree through the University of Kentucky College of Public Health. The University's College of Pharmacy offers a four-year, 158 credit hour Doctor of Pharmacy (Pharm.D.) degree. The Pharm.D./MPH dual degree program is one of fewer than ten of its type offered in the nation. The dual degree program permits a student to gain both degrees in a total time period less than if the degrees were earned independently. The dual degree is thought to be highly desirable for persons seeking careers in state and local health departments, the pharmaceutical industry, managed care organizations, and academics.

PHARM.D./M.S. In Economics

The College of Business and Economics and the College of Pharmacy offer the opportunity to obtain the Master of Science (M.S.) in Economics and Doctor of Pharmacy (Pharm.D.) degrees in a dual degree program. The dual degree program permits a student to gain both degrees in a total time period less than if the degrees were earned independently. Individuals grounded in both economic analysis and clinical skills provide an increasingly important and unique interface between practitioners and managers to balance clinical decision making with financial realities. The dual degree is highly desirable for persons seeking careers in government, the pharmaceutical industry, institutional settings, managed care organizations, pharmacy benefit management organizations, and academia. A student desiring admission into the dual degree program will be required to apply formally and independently to both programs.

PHARM.D./M.S. Pharmaceutical Sciences

Under the dual degree program, 2 current PharmD courses will count towards graduate credit (PHS 951 Cardiopulmonary and Renal Pharmacology [5 credit hours] and PPS 966 Pharmacotherapy III [5 credit hours]). Other graduate courses will be taken to account for the 8 credit hours of elective credits needed for the PharmD curriculum.

Collaborative Degree Programs

University of Kentucky/Lexington Theological Seminary, Double Competency Program

The Lexington Theological Seminary and the University of Kentucky have established a double-competency program to educate qualified students whose career interests are social work and the ministry. The mutual recognition of certain courses between Lexington Theological Seminary (LTS) and the College of Social Work makes possible the shortening of the overall time required to acquire both degrees separately. Interested students should contact the Director of Graduate Studies in Social Work.

University of Kentucky/Asbury Theological Seminary, Double Competency Program

Asbury Theological Seminary and the University of Kentucky have established a double-competency program for students whose interests are social work and the ministry. The mutual recognition of certain

courses between the College of Social Work and Asbury Theological Seminary makes possible the shortening of the overall time required to acquire both degrees separately. Interested students should contact the Director of Graduate Studies in Social Work.

Collaborative Curriculum Leading to the Master of Music in Sacred Music

The UK School of Music offers the Master of Music with an emphasis in Sacred Music; this degree involves the completion of core course work at the University of Kentucky, as well as 6-9 credits of course work at an accredited seminary or other appropriate institution. One option available to the student involves a collaborative curriculum between the University of Kentucky and Lexington Theological Seminary leading to the award of the Master of Music from UK, and the Master of Arts in Church Music from Lexington Theological Seminary. Interested students should contact the Director of Graduate Studies at the University of Kentucky, School of Music.

Doctoral Programs with Other Universities

Cooperative doctoral programs in education are offered between the University of Kentucky and other state universities including Eastern Kentucky University (EKU), Morehead State University (MoSU), Murray State University (MuSU), the University of Louisville (UL), and Western Kentucky University

(WKU). These programs permit qualified candidates to complete up to one year of graduate work above the master's degree at the cooperating university. A minimum of 18 credit hours of course work, the qualifying examination, and the dissertation must be completed at the University of Kentucky, and a minimum of one academic year must be spent in full-time residence on the Lexington campus. The work of each candidate is directed by an advisory committee composed of faculty from both institutions.

Persons interested in these programs should confer with the Dean of the Graduate School at the cooperating university, or with the appropriate Director of Graduate Studies in the College of Education at the University of Kentucky. Admission will depend upon academic standing, scores on standardized examinations, personal references, and other relevant factors.

There are additional cooperative doctoral programs in the following areas:

- Geology UK/EKU
- Physics UK/UL
- Higher Education UK/UL
- Rehabilitation Sciences UK/EKU/MuSU/WKU
- History UK/WKU

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Registration and Classification

All students expecting graduate credit must be enrolled in the Graduate School. Graduate students will conform to the general registration schedule of the University and may not enter later than the last allowable date set by the Registrar. Before registering, graduate students should obtain approval of their proposed schedule from their advisor(s).

Changes in Graduate School Requirements

When Graduate School or degree program requirements are changed after a course of study has begun, the students shall have the option of fulfilling either the old or the new requirements. If students elect to fulfill the old requirements but find that necessary resources (e.g., courses, instruction in particular skills) are no longer available, they may make reasonable substitutes with the approval of the Dean of the Graduate School upon recommendation of the Director of Graduate Studies.

In the event that students interrupt their work on a graduate degree (i.e., are not enrolled) for one calendar year or more, the Dean of the Graduate School shall determine, upon recommendation of the Director of Graduate Studies, whether the old requirements or the new requirements shall apply. In the event students have not completed the requirements for the graduate degree five years after the effective date of a change in degree requirements, the new requirements shall apply unless determined otherwise by the Dean of the Graduate School.

Student Responsibility

It is the student's responsibility to be informed concerning all regulations and procedures required by the course of study being pursued. In no case will a regulation be waived or an exception granted because a student pleads ignorance of the regulation or asserts that information was not presented by advisors or other authorities. Therefore, the student should become familiar with the Graduate School Bulletin, including 1) the section presenting the requirements for degrees and 2) the specific program offerings and requirements.

The Director of Graduate Studies in the student's major program should be consulted concerning course requirements, any deficiencies, the planning of a program, and special regulations. Programs may have degree requirements that are not listed in the Bulletin. It is to be noted that the Dean of the Graduate School interprets the Graduate School Bulletin. Only the Graduate Council may waive requirements stated in this Bulletin.

Confidentiality of Student Records

In accordance with the Family Education Rights and Privacy Act (FERPA) of 1974, University of Kentucky students have the right to review, inspect, and challenge the accuracy of information kept in a cumulative file by the institution unless the student waives this right in writing. Records cannot be released other than in emergency situations without the written consent of the student, except in the following situations:

- to other school officials, including faculty within the educational institution or local educational agency, who have legitimate educational interests
- to officials of other schools or school systems in which the student intends to enroll, upon condition that the student be notified of the transfer, receive a copy of the record if desired, and have an opportunity for a hearing to challenge the content of the record

to authorized representatives of 1) the Comptroller General of the United States, 2) the Secretary of Education of the United States, 3) an administrative head of an education agency or 4) state educational authorities

- in connection with a student's application for, and receipt of, financial aid
- when the information is classified as "directory information." The following categories of information have been designated by the University as directory information: name, address, telephone listing, e-mail address, photographs, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, enrolled hours, and the most recent previous educational institution attended by the student. If you do not wish such information released without your consent, you should notify the Student Records Office in writing.

Questions concerning this law and the University's policy concerning release of academic information may be directed to the Student Records Office of the Graduate School.

Graduate Courses

All courses numbered 500 through 799 may be counted for credit toward a graduate degree provided they are approved as an appropriate part of the student's graduate program by the student's graduate advisor or committee. Courses numbered 400G to 499G carry graduate credit for non-majors only. Courses numbered at the 800 or 900 level and offered by a professional practice program (Medicine, Dentistry, Law etc.) are normally not accepted for credit toward a graduate degree. Exceptions can be made if permission is granted by the Graduate Council to a program to offer specific professional courses as part of its academic program. Prior approval to take a course must be obtained from the Director of Graduate Studies, the Dean of the Graduate School and the dean of the professional college. Without such approval, professional courses may not be counted toward satisfying degree requirements. Courses numbered at the 600 or 700 level should be taught by members of the Graduate Faculty or by such other instructors as are approved by the Dean of the Graduate School.

Add/Drop and Withdrawal

The Graduate School follows the rules of the University Senate as administered by the Registrar's Office.

Academic Load

The total semester or term academic load of a student is the sum of all credits and credit equivalents (e.g., graduate language courses, undergraduate courses, courses audited, etc.) being carried. The normal academic load of a graduate student during any semester or summer is nine credit hours or equivalent. Under no circumstances may it exceed 15 credit hours or equivalent. For the student who is a full-time teaching assistant or whose service to the University requires approximately 20 hours per week, the academic load shall not exceed 10 hours. This maximum may be increased to 12 hours for students with lighter service loads upon recommendation of the Director of Graduate Studies and approval of the Dean of the Graduate School.

Students satisfactorily completing nine course credits, or equivalent, of graduate level work during a semester or summer are classified as full-time students by the University. Those completing less than these amounts are classified as part-time. Full-time students who fall below the minimum full-time equivalent as the result of failing or dropping one or more courses are reclassified as part-time students for that semester or term.

Grades and Grade Point Average

The official grades of graduate students are recorded in the Office of the Registrar. The following scale applies to grading in graduate courses:

A	High achievement	4 grade points per credit
B	Satisfactory achievement	3 grade points per credit

C	Minimum passing grade	2 grade points per credit
E	Failure	0 grade points per credit
I	Incomplete	See explanation (1) below
S	Satisfactory	See explanation (2) below
U	Unsatisfactory	See explanation below

D grades may not be awarded to graduate students. Graduate courses (400G-799) may not be taken Pass/Fail.

1. A grade of I (incomplete) may be assigned to a graduate student if a part of the work of a course remains undone and if there is a reasonable possibility that a passing grade will result from completion of the work. All incompletes (I grades) must be replaced by a regular final letter grade within 12 months of the end of the academic term in which the I grade was awarded or prior to the student's graduation, whichever occurs first. If an I grade has not been replaced within the allowable period, the University Registrar shall change the I grade to a grade of E on the student's permanent academic record and adjust the student's grade point average accordingly, unless otherwise approved because of exceptional circumstances by the Dean of the Graduate School upon recommendation of the Director of Graduate Studies in the student's program. Instructors who assign an I grade must file with the student's Director of Graduate Studies information which includes 1) the name of the student, 2) the course number and hours of credit, 3) the semester and year of enrollment, 4) specific information on the work to be completed before a final grade can be assigned, and 5) the time frame in which the specific requirements are to be met (not to exceed 12 months). Graduate students should consult with their Director of Graduate Studies concerning procedures relative to the awarding of I grades and the conditions under which they may be removed. All I grades must be resolved to a regular letter grade before a student may sit for the final examination, or the qualifying examination for doctoral students. Exceptions to this rule will be considered in unusual circumstances, and require the approval of the Director of Graduate Studies and the Dean of the Graduate School.
2. A grade of S (satisfactory) may be recorded for students in graduate seminars, independent work courses, and research courses which extend beyond the normal limits of a semester or summer term. This grade may not be given to a student in a course carrying credit if the student has done unsatisfactory work or failed to do a reasonable amount of work, in which case a grade of U (unsatisfactory) will be assigned. The project must be substantially continuous in its progress. All S and U grades must be removed prior to the final examination (or qualifying examination for doctoral students), except for those given in Residence Credit 748, 749, 767, 768, and 769, or in graduate courses which carry no credit. Once a grade other than I, S, or U has been reported to the Registrar's Office, it may not be changed unless an error was made at the time the grade was given and recorded, and then only upon the written unanimous approval of the instructor, the Registrar, and the Dean of the Graduate School.

An overall average of B (3.00) on all graduate work in the program must be attained before an advanced degree may be awarded. Graduate-level courses (numbers 400G-799) are computed in the graduate grade-point average, with the exception of 400G courses in the student's program.

Repeat Option

A student may repeat a graduate course and count only the second grade as part of the graduate GPA. This action will be initiated by petition of the Director of Graduate Studies to the Dean of the Graduate School, and may be used only once in a particular degree program or in post-baccalaureate status.

Transfer of Credits

Directors of Graduate Studies may request transfer of credit for coursework taken in post-baccalaureate status at the University of Kentucky either into a master's/specialist degree program or into a doctoral degree program. There is no restriction on the number of transferrable hours. The transfer of credit for coursework taken in post-baccalaureate status at another regionally accredited university is restricted to a maximum of 9 hours (or 25% of the credit hours needed to fulfill either master's/specialist degree requirements or doctoral pre-qualifying coursework requirements).

The following rules also apply to credit transfer:

- Course credits applied toward a previously awarded graduate degree cannot be transferred.
- Transfer of independent work, research, thesis, or dissertation credit is not permitted.
- Short courses lasting fewer weeks than the number of credits may not be transferred.
- A student must have been in graduate status at the time the courses were taken.
- A student must be in good academic standing at the time of transfer.
- Only courses assigned a B grade or better can be transferred.
- Courses must have been taken no more than 10 years (masters) or 8 years (doctoral) prior to the semester the transfer is requested.
- Transfer of external credit cannot be applied to a graduate certificate unless it is specified and justified in the initial request to establish the certificate (or at the time of renewal).

The doctoral transfer policy would NOT apply in cases where a prior master's degree is being used to satisfy 18 hours of the pre-qualifying residency requirement.

Scholastic Probation

When students have completed 12 or more semester hours of graduate course work with a cumulative GPA of less than 3.00, they will be placed on scholastic probation. Students will have one full-time semester or the equivalent (9 hours) to remove the scholastic probation by attaining a 3.00 cumulative GPA. If probation is not removed, students will be dismissed from the Graduate School. Students who have been dismissed from the Graduate School for this reason may apply for readmission after two semesters or one semester and the summer term. If they are accepted by the program, admitted students will have one full-time semester or the equivalent (9 hours) to remove the scholastic probation by attaining a 3.00 cumulative GPA. Exceptions to this policy can be made only by the Dean of the Graduate School. Students placed on scholastic probation are not eligible for fellowships or tuition scholarships and may not sit for doctoral qualifying or final examinations, or master's final examinations.

Termination

The Dean of the Graduate School may terminate enrollment in a particular program for the following reasons:

- Scholastic probation for three enrolled semesters

- Having failed twice the final examination for the master's or doctoral degree or the qualifying examination

In cases where the student's Advisory Committee recommends termination after the qualifying examination has been passed, the Graduate Faculty in that program will meet to vote on the recommendation. When the Graduate Faculty of that program concurs and the student dissents, the student will have an opportunity to meet with the Graduate Faculty of the program, after which a second vote will be taken and a final recommendation will be made to the Dean of the Graduate School.

Each program sets specific requirements and standards of performance, evaluative procedures and criteria, and procedures for terminations of all students. The student should be informed of these criteria at the time of enrollment by the Director of Graduate Studies of the program.

Assessment of Doctoral Student Progress

All programs are required to assess the progress of their doctoral students. The Graduate Faculty of each doctoral program will define good progress to completion of the doctoral degree. This information will be included in the program's Graduate Student Handbook. The consequences of lack of good progress may also be included in the handbook. Each doctoral student's good progress toward the degree will be reviewed (at least) annually by either the Graduate Faculty in the program, the doctoral advisory committee, or other graduate education committee. Each student will be informed in writing of the results of that meeting by the Director of Graduate Studies or the chair of the advisory committee, or their designee.

Examinations for Graduate Credit

A special examination for graduate credit in a student's program requires the approval of the Dean of the Graduate School. Students must complete the Special Examination form (available in the Registrar's Office) and have it approved and signed by the Director of Graduate Studies and the Dean of the Graduate School. Students must be enrolled in the Graduate School during the semester they wish to sit for a special examination.

Students Changing Programs

Students who plan to change programs must submit a new application (and fee) to the Graduate School and be formally admitted by the Director of Graduate Studies in the new program.

Off-Campus and Short Courses

Short courses are defined as courses of less than a term in length. A short course may not carry more credits than the number of weeks during which it is offered. Two short courses of four weeks or less may not be taken simultaneously. Instructional standards for off-campus and short courses should be the same as those established for on-campus and regular courses. A comprehensive final examination will normally be required to assess the student's capability for scholarly thinking in the subject matter area. Practicum or laboratory short courses should require other experiences of comparable rigor.

Distance Learning Graduate Programs

A number of departments offer selected courses or entire graduate degree programs off campus or via the Internet. Instruction is provided by various distance-learning technologies and/or on-site meetings of students with faculty. The Graduate School provides coordination and support for the off-campus sites and assures a high standard of graduate work. The school assists with: student recruitment; administration of the distance learning graduate program sites; liaison among students, programs, and UK support units; and liaison with the cooperating regional universities. For more information see <https://www.uky.edu/academics/online-programs> .

Graduate degree programs to be delivered at distance learning locations (either on site or via technology) shall be reviewed by the Graduate Council prior to their submission for appropriate review at higher levels. Distance learning graduate degree programs shall be reviewed periodically and their effectiveness assessed during regular institutional unit reviews, or, when circumstances warrant, by a special review process initiated by the Dean of the Graduate School.

Independent Study Programs (Correspondence Courses)

No graduate credit is given for courses taken by correspondence.

Concurrent Degree Programs

Concurrent enrollment for degree purposes in more than one graduate program is permitted with the approval of Directors of Graduate Studies in the programs and the Dean of the Graduate School. No more than nine hours of coursework may be common to concurrent degree programs. Subsequent to the receipt of a doctoral degree, a student is not eligible to receive a master's degree based on the work which led to the doctorate, unless an en-passant master's program has been approved. Concurrent Degree Program forms can be located at <https://gradschool.uky.edu/studentforms>

UK Students as Visitors

University of Kentucky graduate students who attend another graduate school as a Visiting Student must have the permission of their University of Kentucky advisor and the Graduate School before the courses are taken in order to transfer credits earned (see Transfer of Credits). Visiting Student status may be granted only to a student who is in good standing in a degree program.

Graduation (Commencement)

Graduate degrees may be conferred at the close of either semester or summer session; Commencement exercises are held in May and December. Students who are eligible to receive degrees at the end of the summer session or the fall semester may participate in the December Commencement exercises. Appropriate academic regalia must be worn. To be eligible to receive a degree, a student must submit an on-line "Application for Degree" form via: <https://myuk.uky.edu/irj/portal> . Applications must be received in the Graduate School within 30 days of the start of the semester in which the student expects to complete their work (or within 15 days of the start of summer session).

Diplomas

Diplomas for graduate students are ordered after certification of the degrees has been completed. If a letter of certification is needed, the Graduate School will provide one upon written request or by coming in person to Room 106 of The Gillis Building.

Outstanding Accounts

The Registrar's Office will not release the diploma or official transcript until all outstanding accounts due to the University have been cleared.

Advanced Degrees for Faculty Members

Members of the faculty having a rank higher than that of Instructor may not be considered as candidates for degrees in the discipline in which they are employed and hold academic rank.

Requirements for Master's Degrees

On Campus Residence

Foreign Language Requirement

Course Work Requirements

Thesis/Non-Thesis Option

Final Examination

Master's Thesis

Time Limit for Master's/Specialists Degrees

On Campus Residence

There is no Graduate School-wide sustained residence requirement for master's degrees at the University of Kentucky. However, students are advised to review the requirements for the programs in which they are interested and consider carefully the spirit of resident graduate work as discussed in the section on doctoral residency. Students who contemplate continuing in a doctoral program should take into account at the outset the residence requirements for the doctoral degree.

Foreign Language Requirement

Many programs require a reading knowledge of a foreign language for the master's degree. Accepted languages for fulfillment of this requirement are those currently taught at the University of Kentucky, subject

to approval by the Director of Graduate Studies. Other languages may be recommended by the major advisor and approved by the Dean of the Graduate School on the recommendation of the Director of Graduate Studies. The Director sends this recommendation to the Dean. The following options may satisfy the language requirement:

- completion of one of the accelerated graduate level language courses (011 courses) with a grade of B or better
- completion of the fourth semester of a foreign language with a grade of B or better at an accredited college or university
- completion of a more advanced foreign language course (beyond the fourth semester level, with all course work and readings in the target language) with a grade of B or better at an accredited college or university
- completion of an accelerated graduate level language course for reading knowledge with a grade of B or better, at another accredited university
- transfer of a language taken to satisfy the requirements for a master's degree at another accredited university
- completion of special examinations given for graduate reading courses with a grade of B or better. Forms may be obtained from the Registrar's Office, Funkhouser Building. Other types of special examinations are scheduled in the Graduate School
- completion of a placement test administered by the foreign language programs of the University, and testing to a level beyond the fourth semester of foreign language study, which is the equivalent of a grade of B or better. This method may be appropriate for students with significant life experience in the foreign language culture, and requires the approval and recommendation of the Director of Graduate Studies
- with the approval of their program, students who are non-native speakers of English may satisfy the foreign language requirement by presenting a TOEFL score of 550 or above (the equivalent score on the computer version of the TOEFL is 213 and on the internet-based test is 79) or a IELTS score of 6.5 or above.

Course Work Requirements

Graduate students are eligible to take regular courses which meet as organized classes and independent-study or research courses in which each student carries on investigations independent of class meetings. Independent study or research courses must not duplicate thesis work; thesis work must be done in addition to the minimum course requirements. At least two-thirds of the minimum requirements for the master's or specialist degree must be in regular courses, and at least half of the minimum course requirements (excluding thesis, practicum, or internship credit) must be in 600- or 700-level courses. Exceptions to this rule may be made only with the approval of the Council.

Candidates for the master's degree must have a major area (defined usually as an academic department) and must take at least two-thirds of the course work in this area. The other one-third may be taken in this area or in related graduate areas. In Agriculture and Education, only one-half of the work must be in the major area. When the establishment of major topics seems to require it, the Graduate Council may, on recommendation of the appropriate Director of Graduate Studies, authorize courses taught outside the major to count toward the major requirement.

Thesis/Non-Thesis Option

The Graduate Faculty authorizes graduate programs to satisfy requirements for the master's degree by either of two options, thesis (Plan A) or non-thesis, (Plan B). Both options require a minimum of 30 credit

hours. The thesis option (Plan A) requires a minimum of 24 hours of course work plus a thesis to be developed under the direction of a full or associate member of the Graduate Faculty. While working on the thesis, master's candidates should register for 6 credits of XXX-768 (Residence Credit for Master's Degree) in the appropriate department.

After meeting coursework and 768 requirements, Plan A master's degree candidates who are in residence and receiving financial support from the University and/or utilizing University resources while working on the thesis must be enrolled in their departments XXX-768 or XXX-748 (Master's Thesis Research; 0 credit hours) each semester through to the defense.

The non-thesis option (Plan B) requires that six or more graduate credit hours of course work be submitted in lieu of a thesis. A student may follow this option with approval of the program concerned. Students should consult their advisor for any additional requirements established for Plan B in their area of study.

Final Examination

A Final Examination (oral and/or written) is given to all candidates for master's degrees not later than eight days before the last day of classes of the semester in which the degree is to be awarded. The examination is scheduled by the Dean of the Graduate School and the report is returned to the Dean upon completion of the examination, which in no case may be later than two weeks after the start of the examination. The examining committee consists of at least three qualified faculty members recommended by the Director of Graduate Studies and appointed by the Dean of the Graduate School. At least two committee members (including the chair or co-chair) must be members of the Graduate Faculty, and at least one of the two must be a full member of the Graduate Faculty. It is expected that at least two members of the committee will be from the student's program/department.

The request for a final examination must be filed at least two weeks prior to the date of the examination; https://ris.uky.edu/cfdocs/gs/MastersCommittee/Student/Selection_Screen.cfm. Students on scholastic probation are not eligible to sit for the final examination. Class must be in session for the student to sit for the exam. If the candidate fails the final examination, the committee may recommend the conditions under which a second examination may be administered. Insofar as it is practicable, the same examining committee gives this examination. In all decisions the majority opinion of the committee prevails. If the committee is evenly divided, the candidate fails. A third examination is not allowed.

Master's Thesis

Collaborative effort by two or more graduate students is not forbidden. However, there must be enough independent effort to enable each student to make a separate contribution and to prepare an individual thesis. Before the final examination, the thesis director and the appropriate Director of Graduate Studies must indicate to the Graduate School that the student's thesis satisfies all requirements of the Graduate School and is complete in content and format with the exception of pagination, and that the student is ready to be examined. Any modification in the thesis which the final examination committee specifies must be made before the degree is conferred. Theses must be prepared in conformity with the instructions published by the Graduate School. Detailed instructions can be found at www.gradschool.uky.edu/thedissprep.shtml. The thesis in its final form must be received in the Graduate School within 60 days of the Final Examination. Theses must be presented to and accepted in the Graduate School by the last day of the semester if a student plans to graduate that semester. Theses submitted by candidates become the physical property of the University of Kentucky.

Time Limit for Master's/Specialists Degrees

Students enrolled in a master's/specialist program 6 years to complete all requirements for the degree, but still have the opportunity to request extensions up to an additional four years for a total of ten years. Extensions up to two years may be approved by the Dean of the Graduate School. Requests for extensions longer than two years must be considered by Graduate Council. All requests should be initiated by the Director of Graduate Studies. No activity completed more than ten calendar years preceding the proposed graduation date as appropriate will be considered for graduation.

Programs may opt to shorten or extend the required time to complete the master's/specialist program. Petitions must be submitted to Graduate Council for approval. The program should be able to demonstrate that the six-year time limit would be detrimental to the progress of their students or to the program itself. If the request is to extend the time limit, the program must demonstrate how students will remain current in the field over this extended time period. Any approved change in the time limit would apply to all students in the program.

A program may submit an appeal to the Graduate Council to allow a time-to-degree terminated student to be readmitted and pursue the degree without re-taking all required coursework. The appeal should:

- Provide an explanation for the failure to initially complete the degree on-time.
- Provide a detailed description of the requirements that must be fulfilled in order to receive the degree.
- Provide confirmation that the appeal was approved by the majority of the program graduate faculty.

Requirements for Doctoral Degrees

Doctoral of Philosophy (Ph.D.) Degree

The Major Professor and the Advisory Committee

Residency Requirements

Pre-Qualifying Residency

Post-Qualifying Residency

Foreign Language Requirement

The Qualifying Examination

Pre-Qualifying Time Limit

The Final Examination

The Dissertation

Time Limit for Doctoral Degrees

Assessment of Good Progress for Doctoral Students

Doctor of Philosophy (Ph.D.) Degree

The Ph.D. degree is intended to represent the demonstration of independent and comprehensive scholarship in a specific field. Such scholarship must be manifested by both the student's mastery of subject matter and capacity to do research. Every applicant for the Ph.D. degree must select a major area of study. The major area is one in which the student's efforts are concentrated. Some programs also require one or more minor areas. Minor(s) must be approved by the student's advisory committee. The degree of Doctor of Philosophy is conferred upon a candidate who, after completing graduate work devoted to study of a special field of knowledge, 1) passes comprehensive examinations in the chosen field and the dissertation subject, 2) presents a satisfactory dissertation, and 3) shows evidence of scholarly attainment. Students should note that some doctoral programs have degree requirements that may exceed the minimum requirements of the Graduate Faculty.

The Major Professor and the Advisory Committee

The Director of Graduate Studies, or designee, serves as advisor to beginning graduate students until the advisory committee is appointed, normally not later than upon completion of 18 credit hours of graduate work. The advisory committee must be appointed at least one year prior to the qualifying examinations. The major professor and advisory committee are appointed by the Graduate Dean after consultation with the appropriate Director of Graduate Studies. The dissertation director, when selected, serves as the major professor. The advisory committee also provides advice to the student and specifically sets requirements (within applicable program, Graduate School and University regulations) which the student must meet in pursuit of the doctorate. In addition to advising and program planning, the advisory committee is also involved in the administration of the qualifying examination, the supervision of the preparation of the dissertation, and the administration of the final examination.

The advisory committee has a core of four members. This core must include a minimum of two faculty members from the graduate program (with one being the major professor as chair or co-chair), and one representative from outside the graduate program. All members of the core must be members of the Graduate Faculty of the University of Kentucky¹ and three (including the major professor) must possess full Graduate Faculty status.

¹*Faculty members from other institutions may serve on dissertation committees if they meet the requirements for appointment as associate members of the UK Graduate Faculty.*

The request to form (or modify) an advisory committee is accomplished via https://ris.uky.edu/cfdocs/gs/DoctoralCommittee/Selection_Screen.cfm . All decisions of the advisory committee are by majority vote of its Graduate Faculty members. Advisory committee decisions must be reported promptly to the appropriate Director of Graduate Studies who will be responsible for transmitting them to the Dean of the Graduate School.

Residency Requirements

The purpose of a residency requirement is to encourage doctoral students to experience contact with the academic community: colleagues, libraries, laboratories, on-going programs of research and inquiry, and the intellectual environment that characterizes a university. Such experience is generally as important as formal class work in the process of intellectual development. While the residency requirement is, by necessity, given in terms of full or part-time enrollment, the intent of the requirement is to ensure that the student becomes fully involved in an essential part of scholarly life. Exceptions to the normal residency pattern may be made with the approval of the Dean of the Graduate School upon the written recommendations of the student's advisory committee and the Director of Graduate Studies, which clearly demonstrate that the

principle of residence is preserved. The ultimate goal of these requirements is to lead students to scholarly accomplishment, not solely to amass semester hours or time spent.

Pre-Qualifying Residency

Students must complete the equivalent of two years of residency (36 credit hours of graduate coursework*) prior to the qualifying examination. An awarded master's degree from the University of Kentucky or from another accredited school may satisfy 18 of this 36-hour pre-qualifying requirement. Such requests should be made by the DGS to the Senior Associate Dean of the Graduate School. For students with extensive prior graduate work, a waiver of additional pre-qualifying residency hours may be appropriate. Requests should be submitted in writing by the DGS to the Dean of the Graduate School and should include a detailed justification and evidence that the student's Major Professor and Advisory Committee support the request.

**some programs require more than 36 hours of graduate coursework prior to the qualifying examination.*

Post-Qualifying Residency

Students are required to enroll in a 2-credit hour course after successfully completing the qualifying examination, XXX-767; Dissertation Residency Credit. The Graduate School will provide a scholarship for the out-of-state (OOS) portion of the (2) credit hours associated with a 767 course and the student will only be responsible for the in-state tuition rate plus mandatory fees*. This 767 OOS tuition scholarship will only be provided to students who are receiving no assistantship or fellowship funding that semester. Students who are receiving Assistantships (TA, RA, GA) will not receive this 767 tuition scholarship as they will already receive tuition scholarships appropriate to their assistantship level (half vs. full). Students must remain continuously enrolled in this course every fall and spring semester until they have completed and defended the dissertation. This will constitute full-time enrollment. Students are required to complete a minimum of two semesters of 767 before they can graduate.

**UK employees (0.75 FTE or higher) enrolled in the Employee Education Program (EEP) are not eligible for this out-of-state tuition scholarship.*

Foreign Language Requirement

Some doctoral degree programs require a reading knowledge of one or more modern foreign languages for the doctorate. Accepted languages for fulfillment of this requirement are those currently taught at the University of Kentucky, subject to approval by the Director of Graduate Studies. Other languages may be recommended by the major advisor and approved by the Dean of the Graduate School on the recommendation of the Director of Graduate Studies. The Director sends this recommendation to the Dean. For more information, see the Master's Degree Foreign Language Requirement. Any language requirement(s) must be satisfied before the applicant may sit for the qualifying examination.

The Qualifying Examination

A qualifying examination consisting of both written and oral components is required of all doctoral students. Its purpose is to verify that students have sufficient understanding of and competence in their fields to become candidates for the degree. In most programs, the advisory committee prepares and administers an individual qualifying examination; typically, that committee also judges the results of the examination. A majority vote of the core of the advisory committee is required for successful completion of the qualifying

examination. Programs that give uniform, written qualifying examinations to all of their candidates shall have rules (filed with the Dean of the Graduate School) governing the role of the advisory committee in the preparation, administration, and evaluation of the qualifying examination. The examination is usually given after four semesters of graduate work or the equivalent, and after fulfillment of pre-qualifying residency.

The request to schedule the qualifying examination must be submitted a minimum of two weeks in advance via: https://ris.uky.edu/cfdocs/gs/DoctoralCommittee/Selection_Screen.cfm . The results of the examination must be reported by the Director of Graduate Studies to the Graduate School within 10 days of its conclusion. If the result is failure, the advisory committee determines the conditions to be met before another examination may be given. The minimum time between examinations is four months. A second examination must be taken within one year after the first examination. A third examination is not permitted.

XXX 767, residency credit will be applied for a qualifying examination taken at any time during the first semester of enrollment in this course. Classes must be in session for the student to sit for the exam.

Pre-Qualifying Time Limit

Students are required to take the qualifying examination within five years of entry into the program. Extensions up to an additional three years may be requested. Extensions up to twelve months may be approved by the Dean of the Graduate School upon receipt of a request from the Director of Graduate Studies. Requests for extensions longer than twelve months must be considered by Graduate Council and will require the positive recommendation of the Director of Graduate Studies, the chair of the student's doctoral advisory committee, and a majority vote of Graduate Faculty in the program. If the qualifying examination has not been passed at the end of five years, or at the end of all approved time extensions the student will be dismissed from the program.

This new time limit applies to all programs, but the graduate faculty of a doctoral program (or group of programs) has the option to petition Graduate Council for a shorter or longer time limit. If approved, this modification will then apply to all doctoral students in that program.

The Final Examination

The Final Examination includes a defense of the dissertation and may be as comprehensive in the major and minor areas as the advisory committee chooses to make it. It is conducted by an expanded advisory committee chaired by the Director of Graduate Studies or someone designated by the Director. The Dean of the Graduate School and the President of the University are ex officio members of all final examination committees. The examination is a public event and its scheduling is published and announced beforehand. Any member of the University community may attend.

At least 8 weeks prior to the final examination, the Graduate School should be notified of the intent to examine via: https://ris.uky.edu/cfdocs/gs/DoctoralCommittee/Selection_Screen.cfm . At this time the Graduate Dean appoints an Outside Examiner as a core member of the advisory committee. The specific time and date of the examination must be designated by the Graduate School at least two weeks prior to the actual examination using the above link. All members of the committee except the outside examiner must have an opportunity to suggest revisions prior to scheduling the Final Examination. Thus, most revisions should have been completed at an earlier time. The final examination must take place no later than eight days prior to the last day of classes of the semester in which the student expects to graduate. Final examinations are public events and must take place while the University is officially in session. They may not be scheduled during the periods between semesters or between the end of the second summer session and the beginning of the fall semester.

The following are Graduate School procedures for conducting the Final Examination:

- At the outset of the Examination, the DGS or committee chair should verify that the Examination Card has been brought to the examination room. If this is not the case, the committee chair or DGS must call the Senior Associate Dean's office at the Graduate School (859-257-2441) to determine if the examination may proceed.
- The Examination may not begin until all voting members of the committee are present (these names are listed on the examination card)
- One or more members of a master's or doctoral committee may participate remotely in an Examination if a video-conference connection can be established (this option does not apply to the Outside Examiner assigned to final doctoral defenses). The DGS should identify the committee members participating in this fashion on the qualifying or final examination request form. Under exceptional circumstances, the remote participation option may also be extended to the student.
- An Examination may be cancelled prior to its official start for substantive reason with no permanent consequences for the student. The student has not failed the examination in this case because it was never officially begun. Substantive reasons can include a missing committee member, a sudden difficulty in the candidate's personal life that may affect performance, or a (late) opinion on the part of one or more committee members, for example that the dissertation is not ready to defend. In such cases, the committee may hold an open or closed discussion to review the issues at hand and reach a decision on whether to hold the examination or not. Furthermore, the candidate does have the right to cancel the examination prior to its start. If the examination is cancelled, it must be formally rescheduled with the Graduate School in the standard fashion. A minimum two-week interval is required for re-scheduling the examination
- Once the examination has begun, all committee members must remain present for the duration of the process. In cases in which a committee member is participating remotely, if the connection is lost, the examination process should be immediately suspended and not re-started until connection is again fully established.
- Once the examination has begun, it must be carried through until its end. A formal vote must be taken and recorded on the examination card, along with the signatures of all (voting) members. There are only two outcomes possible; by majority vote, Pass or Fail. The only suspensions permitted are short ones to permit the candidate or committee members to refresh themselves.
- If an emergency situation should arise during the course of an examination, the committee chair or DGS should immediately call the Graduate School (859-257-2441) to seek guidance.

The Dissertation

Each student must present a dissertation which represents the culmination of a major research project. The dissertation must be a well-reasoned, original contribution to knowledge in the field of study and should provide evidence of high scholarly achievement. Dissertations must be prepared in conformity with the instructions published by the Graduate School. Specific formatting instructions can be found at <https://gradschool.uky.edu/electronic-dissertation-preparation> . The dissertation in its final form must be received in the Graduate School within 60 days of the final examination. If this deadline is not met, the candidate may be required to undergo a second examination. All doctoral dissertations must be submitted in electronic format. Instructions are available at <https://gradschool.uky.edu/electronic-dissertation-preparation> . To view the current collection of ETD's, go to <http://uknowledge.uky.edu/gradschool/> .

Time Limit for Doctoral Degrees

All degree requirements for the doctorate must be completed within five years following the semester or summer session in which the candidate successfully completes the qualifying examination, but extensions up to an additional 5 years may be requested for a total of 10 years. All requests should be initiated by the Director of Graduate Studies and accompanied by a letter of support from the student's advisor. Extensions

up to one year may be approved by the Senior Associate Dean of the Graduate School. Requests for extensions longer than one year must be considered by Graduate Council. All requests should be initiated by the Director of Graduate Studies and must include a recommendation on whether or not a retake of the qualifying examination should be a requirement of the extension. If requested, failure to pass the re-examination will result in the termination of degree candidacy; a second re-examination is not permitted. Failure to complete all degree requirements within 10 years of initially taking the qualifying examination will also result in the termination of degree candidacy.

A program may submit an appeal to the Graduate Council to allow a time-to-degree terminated student to be readmitted and pursue the degree without re-taking all required coursework. The appeal should:

Provide an explanation for the failure to initially complete the degree on-time. Provide a detailed description of the requirements that must be fulfilled in order to receive the degree. Provide confirmation that the appeal was approved by the majority of the program graduate faculty.

Assessment of Good Progress for Doctoral Students

The Graduate Faculty of each doctoral program is required to define good progress toward completion of the doctoral degree. This information should be included in the program's Graduate Student Handbook (it is recommended that the consequences of lack of good progress are also included in the handbook). Each doctoral student's progress toward the degree will be reviewed (at least) annually by either the Graduate Faculty in the program, the doctoral advisory committee, or the graduate education committee. Students will be informed in writing of the results of that meeting by the Director of Graduate Studies or the chair of their designee. These reports should not be forwarded to the Graduate School.

Bulletin Home

General Information

Tuition and Fees

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Health Services

Student ID Card (UKID)

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Tuition and Fees

To see the current Tuition and Fees for graduate students, including those that are specific to certain programs, courses, etc., please go to the University of Kentucky Registrar's page <https://www.uky.edu/registrar> and click on the "Tuition and Fees" tab.

Fellowships and Assistantships

Financial assistance is available in the form of fellowships and assistantships, as well as research funding. A fellowship is a non-service award made to superior students to assist in the pursuit of an advanced degree. An assistantship is an appointment to perform specified teaching or research duties. The University of Kentucky honors the following Resolution Regarding Graduate Scholars, Fellows, Trainees and Assistants Adopted by the Council of Graduate Schools in the United States:

"Acceptance of an offer of financial support (such as a graduate scholarship, fellowship, traineeship, or assistantship) for the next academic year by a prospective or enrolled graduate student completes an agreement that both student and graduate school expect to honor. In that context, the conditions affecting such offers and their acceptance must be defined carefully and understood by all parties." "Students are under no obligation to respond to offers of financial support prior to April 15; earlier deadlines for acceptance of such offers violate the intent of this Resolution. In those instances in which a student accepts an offer before April 15, and subsequently desires to withdraw that acceptance, the student may submit in writing a resignation of the appointment at any time through April 15. However, an acceptance given or left in force after April 15 commits the student not to accept another offer without first obtaining a written release from the institution to which the commitment has been made. Similarly, an offer made by an institution after April 15 is conditional on presentation by the student of a written release from any previously accepted offer. It is further agreed by the institutions and organizations subscribing to the above Resolution that a copy of this Resolution should accompany every scholarship, fellowship, traineeship, and assistantship offer."

Fellowships

There are non-service fellowships available in all areas of graduate work. The majority of these fellowships carry a tuition scholarship and student health insurance as well as a stipend. Tenure may be from one to three years, depending on fellowship type. While fellowships are formally awarded by the Graduate School, nominations for most fellowships are made by the department in which a student is enrolled or seeks to enroll. To see the Fellowship awards offered by the Graduate School please go to <https://gradschool.uky.edu/fellowships>.

Almost all fellowships are awarded beginning with the fall semester. Departments make fellowship nominations at the beginning of the spring semester for the next academic year, so students interested in a fellowship should work with their DGS to ensure submission of applications and all supporting documents before that time. Later applicants have a reduced chance of obtaining a fellowship. Notification regarding awarding of fellowships comes from the Graduate School by early May.

Assistantships

Approximately 1500 teaching or research assistantships are available from departments and other units of the University. In addition to an assistantship stipend, full or partial tuition scholarships and student health insurance are available for most assistantship holders. The majority of assistantships are awarded beginning with the fall semester. Students interested in an assistantship should submit applications to obtaining an assistantship. Most assistantship decisions are made by April for the coming academic year.

Notification of an assistantship comes from the department. Questions about the availability of positions and the status of assistantship applications should be addressed to the Director of Graduate Studies in the department a student seeks to enter

Student Loans

U.S. citizens and eligible non-citizens may apply for federally supported loans and work-study assistance. To be considered, complete the Free Application for Federal Student Aid (FAFSA), available in the UK Student Financial Aid Office, 128 Funkhouser Building, Lexington, KY 40506-0054, 859-257-3172; fax 859-257-4398. Students may also apply online at <https://studentaid.ed.gov/sa/fafsa> or go to <https://www.uky.edu/financialaid/>.

Health Services

University Health Service

Not all graduate students are required to pay the health fee. Only full-time students in nine hours or more pay the mandatory health fee via their student account. For all other students, including those in zero and two-credit hour courses, the health fee is optional. Full-time graduate students who have paid the health fee have access to University Health Service (Student Health) at little or no cost. Part-time and zero or two-credit hour students may access University Health Service by voluntarily paying a health fee or by being seen on a fee-for-service basis. To use University Health Service in the summer, all students must pay the summer health fee or pay on a fee-for-service basis. All voluntary requests for the health fee should be made to Student Account Services. Services related to hospitalization, surgical procedures, accident care and any other health care provided outside University Health Service, are not covered by the health fee. The University, including University Hospital, assumes no responsibility for a student's medical expenses.

The convenience of an on-campus health care facility, a low-cost prepaid plan for outpatient services, and a student group health insurance plan are designed to make UK's total health plan attractive and economical for graduate and professional students, both full-time and part-time.

All full-time students must pay the student health fee in fall and spring semesters which entitles them to medical and mental health care at the University Health Service. For students who attend either of the summer sessions, the health fee is optional. Part-time students may prepay the student health fee or may use the health service on a fee-for-service basis; the health fee may be paid at the Student Billing Office.

The University Health Service is located on S. Limestone Street. The clinic is staffed by physicians, nurse practitioners, psychiatrists, and other health professionals. Spouses of eligible students are eligible to receive their primary care at the University Health Service. They are charged for all services rendered. Children and other family members are not eligible. Services covered by the health fee include: unlimited visits to clinicians for illness or injury, some laboratory services and x-rays ordered by the health service clinician as part of evaluation for an illness or injury, some medications, allergy shots and immunizations, and visits to the professionals in the Mental Health Service. For additional information, contact the University Health Service at 859-323-2778.

Health Insurance

Services related to hospitalization, surgical procedures, accident care, and any other health care provided outside the University Health Service, are not covered by the health fee. The University of Kentucky strongly

endorses the belief that students should have health insurance, either provided by their parents' policy or by an independent insurance company. The University, including the University Hospital, assumes no responsibility for a student's medical expenses.

Health Insurance Requirements for International Students

The University of Kentucky has a mandatory health insurance program for all international students. International students who are in F-1 and J-1 visa status will be charged for the health insurance plan along with their tuition and fees. Students who have purchased health insurance in their home countries or who are covered as a dependent on a U.S. plan may be eligible for a waiver. J-2 dependents who enroll in classes will be charged for the health insurance along with their tuition and fees. International students on a J-1 or F-1 visa are required to purchase health insurance for all of their dependents. International students with questions about health insurance should contact the health insurance coordinator in the Office of International Affairs at 859-257-4067 ext. 238.

Health Plan Coverage for Graduate TA, RA, GA, & Institutional Fellows

Health plan coverage is provided to all enrolled and degree-seeking graduate students with full-time teaching, research, or graduate assistantships, full-time fellowship recipients, or a combination of these positions. The Student Health Plan Office administers this program. The health plan is provided to eligible graduate students at no cost. The student health plan is a preferred provider organization (PPO), and UK Hospital and UK College of Medicine physicians are the in area preferred providers. When receiving treatment away from UK, students can expect higher out-of-pocket costs. Additionally, the plan is an illness and injury plan only; it does not provide for preventive care or coverage of treatment in the absence of illness or injury, except as specifically provided in the policy.

Student Health Plan

The student insurance plan is a preferred provider organization (PPO), and UK Hospital and UK College of Medicine physicians are the preferred providers. When receiving treatment away from UK, you can expect significantly higher out-of-pocket costs. Additionally, the plan is an illness and injury plan only; it does not provide for preventive care or coverage of treatment in the absence of illness or injury, except as specifically provided in the policy. The annual policy provides year-round coverage. Students may also purchase coverage for their spouse and/or children. The premium may be paid annually, semi-annually, or quarterly by check, Visa, or MasterCard. Student enrollment may be continued from one year to the next by reenrolling within 14 days from the enrollment date. Although students are encouraged to enroll at the beginning of the school year, enrollment is available throughout the policy year. Information packets for the upcoming school year are available in mid-July at the University Health Service. For further information and enrollment dates, call 859-323-5823, ext. 230.

Counseling & Testing Center

The University Counseling and Testing Center has a staff of licensed psychologists whose primary function is to address the emotional/psychological issues of both undergraduate and graduate students. Some typical concerns of graduate students include feelings of depression, anxiety, stress due to the demands of

graduate school, quality of interpersonal relationships, loneliness and isolation, grief, time management, refinement of critical thinking skills, career and life planning, and other issues of a personal nature.

All counseling sessions are free, voluntary, and confidential. The services are available by appointment to fee-paying students enrolled for at least six semester hours. Graduate students enrolled for thesis or dissertation hours also are eligible. In addition to counseling with individual students, the Center offers couples (significant others) and group counseling. General counseling groups are ongoing and reconstituted each semester. Participants work on a variety of issues. There are also special focus groups such as Bridges (a support group for graduate African-American women), an eating disorders group, and a discussion group for LD/ADHD. Appointments and further information may be obtained by calling 859-257-8701 or by coming to the Center, 301 Frazee Hall.

Student ID Card (UKID)

All students admitted to the University (both full-time and part-time) are expected to obtain a student ID card (UKID). This is a permanent card, which becomes valid each semester when fees are paid. The first ID card is provided without cost. Students who lose their UKID should report the loss immediately to the UKID Office (859-257-1378), the Diner/Plus Account Office (859-257-6159), or any Food Service location. The UKID is the property of the University of Kentucky and is to be returned to the Dean of Students upon termination of student status.

Disability Services

Students with disabilities should call or stop by the Disability Resource Center, 407 Multidisciplinary Science Building, 725 Rose Street, or call 859-257-2754. The staff will assist students with information about accessible parking, bus services, and/or special needs.

Housing

The UK Graduate and Family Housing operates apartments for single graduate students and student families. The apartments are rented on a 12-month lease agreement basis. For more information, contact UK Graduate and Family Housing, 300 Alumni Drive, Apt. 156., Lexington, KY 40508; 859-257-3721; e-mail ukaphousing@uky.edu; or see <https://www.uky.edu/housing/about-graduate-family-housing> .

Programs (A-Z)

Accounting, MSAC

The accounting profession includes a variety of career opportunities. Whether you decide to go into public or private accounting, your options are practically unlimited. Choose a career in companies of all sizes, where you can work in numerous areas, including auditing, taxation, financial accounting and reporting, management accounting, financial analysis, and governmental accounting. The Master of Science in Accounting (MSACC) program is a 30-credit hour program that guides students through a modular sequence of courses that coincides with the CPA exam. Candidates who already have an undergraduate accounting degree can complete the program in just 10 months while having the opportunity to study and sit for the CPA exam. Our Bridge Program for non-accounting majors can be completed in as little as 14 months while also allowing candidates the opportunity to study and sit for the CPA exam.

Admission Requirements

All majors are encouraged to apply. Applicants will be evaluated for admission based upon their undergraduate and/or accounting coursework grade point averages, essay responses, reference evaluations, and their TOEFL score (if applicable).

- Applicants must have earned an A or B letter grade in the following courses or their equivalent. These courses must be based upon U.S. GAAP, US auditing standards, and IRS tax law.
 - Financial Accounting (ACC 201)
 - Managerial Accounting (ACC 202)
 - Intermediate Accounting I (ACC 301)
 - Intermediate Accounting II (ACC 302)
 - Accounting Information Systems (ACC 324)
 - Auditing (ACC 403)
 - Concepts of Income Taxation (ACC 407)
- Undergraduate accounting GPA of 3.2 or greater
- Overall GPA of 3.0 or greater

- Three references from former professors for non-UK students

- Essay - In 800 to 900 words, discuss the reasons you wish to pursue a MSACC degree at the University of Kentucky's Von Allmen School of Accountancy. Please address the following in your essay:
 - Academic preparation and accomplishments for graduate study
 - Leadership qualities and motivation
 - Previous accounting and/or relevant work experience
 - Expectations for the MSACC program
 - Your short-term and long-term goals and how a MSACC degree will help achieve these goals
 - Any additional information you feel is relevant
- International applicants must also submit Official TOEFL score with a minimum TOEFL IBT score of 90 or IELTS score of 7, or score at least 30 on the verbal section of the GMAT exam. Waived for students with U.S. degrees.

Degree Requirements

The 30 credit MSACC program requires candidates to complete 24 credits of required courses and 6 credits in open electives. The required courses are:

- ACC 507 ADVANCED TOPICS IN TAXATION
- ACC 516 ADVANCED TOPICS IN FINANCIAL REPORTING
- ACC 601 RESEARCH IN ACCOUNTING THEORY
- ACC 603 ATTEST FUNCTION

- ACC 617 SELECTED TOPICS IN TAXATION
- ACC 621 UNDERSTANDING FINANCIAL STATEMENTS
- ACC 624 ENTERPRISE INFORMATION AND CONTROL SYSTEMS
- MGT 641 LEGAL ISSUES IN THE ACCOUNTING PROFESSION

The two graduate elective courses can be selected from additional graduate level accounting courses or other business related graduate courses at the 500 and 600 level.

Applicants can learn more about the MSACC program by visiting the following website:

<https://gatton.uky.edu/programs/masters/master-science-accounting>

You can also email questions to the program director at johnsmigla@uky.edu

Advanced Materials Characterization Certificate

In the four course Advanced Materials Characterization Certificate (AMCC) students will explore techniques for characterizing and analyzing the atomic-through-mesoscale structure of materials and their surfaces. Students will learn the fundamental principles and limitations of a range of techniques, to prepare samples, and to operate state-of-the-art equipment. The program provides direct, hands-on experiences to both on-campus and distance learning participants by leveraging internet-based remote operation of characterization equipment in the UK Electron Microscopy Center.

Agricultural Economics, MS

The Department of Agricultural Economics provides programs leading to the degrees of Master of Science and the Doctor of Philosophy. Graduate Faculty in the department provide areas of emphasis in agricultural policy, price analysis, agricultural marketing, agribusiness, farm management, domestic economic development, and production economics. Students must complete a core of courses in agricultural economics, economics and statistics.

Students holding degrees in agricultural economics are employed by academic institutions, local, state, and federal agencies that deal with agriculture, natural resources and economic development; private firms in the agricultural and business sectors; and agencies and governments of foreign countries. These agricultural economists conduct research, develop extension services, teach classes, and serve as managers and administrators in various types of firms and agencies.

Admission Requirements

Students entering the M.S. program are expected to have at least one course in each of the following areas: intermediate microeconomics, calculus, and statistics. An undergraduate degree in economics is advantageous, as is a good background in mathematics. There are no minimum GPA or GRE requirements beyond those of the Graduate School, but such information, along with letters of recommendation, is used qualitatively in the admission decision.

Degree Requirements

The master's program is offered in either Plan A or Plan B. The thesis option (Plan A) requires a minimum of 30 hours of graduate credit, a research thesis and an oral final exam. Plan B requires a minimum of 36 hours of graduate credit and an oral final exam.

Graduate students have considerable flexibility to structure their program with respect to course work and research topics consistent with individual interests. Each student has a major professor and an advisory committee to assist in course work selection and in the thesis and dissertation research.

A graduate handbook is available that provides information regarding program content, degree options and available financial assistance.

Agricultural Economics, PhD

The Department of Agricultural Economics provides programs leading to the degrees of Master of Science and the Doctor of Philosophy. Graduate Faculty in the department provide areas of emphasis in agricultural policy, price analysis, agricultural marketing, agribusiness, farm management, domestic economic development, and production economics. Students must complete a core of courses in agricultural economics, economics and statistics.

Students holding degrees in agricultural economics are employed by academic institutions, local, state, and federal agencies that deal with agriculture, natural resources and economic development; private firms in the agricultural and business sectors; and agencies and governments of foreign countries. These agricultural economists conduct research, develop extension services, teach classes, and serve as managers and administrators in various types of firms and agencies.

Admission Requirements

Students entering the Ph.D. program are expected to have the following courses: at least a two-course calculus sequence, M.S. level microeconomic theory, and statistics theory. Some of these courses may be taken during the student's first semester. A Master's degree in a relevant discipline is generally required for entry into the Ph.D. program. In exceptional cases a student may be admitted directly to the Ph.D. program with only a Bachelor's degree. There are no minimum GPA or GRE requirements beyond those of the Graduate School, but such information, along with letters of recommendation, is used qualitatively in the admission decision.

Degree Requirements

In addition to the course work requirements, students in the Ph.D. program are required to take a comprehensive examination in microeconomics administered by the Department of Economics. Students also must complete a second-year research paper requirement as part of the preliminary examination requirements. The student must defend a dissertation prospectus during the preliminary oral examination.

The ability to conduct original research in agricultural economics, documented through the completion of a dissertation, is required.

Graduate students have considerable flexibility to structure their program with respect to course work and research topics consistent with individual interests. Each student has a major professor and an advisory committee to assist in course work selection and in the thesis and dissertation research.

A graduate handbook is available that provides information regarding program content, degree options and available financial assistance.

Anatomical Sciences Certificate

The graduate certificate in Anatomical Sciences will provide a coherent integrated approach to helping graduate students, postdoctoral scholars, residents and others develop and document the skills needed in order to effectively teach the anatomical sciences. This 12 credit-hour certificate, including a required 3 credit-hour supervised practicum experience, provides basic competency in graduate-level anatomical sciences instruction and provides participants with documentation of their abilities. The certificate is accessible to participants from a wide range of disciplines and backgrounds and will provide practical, hands-on anatomy course work and instructional mentoring. The certificate will produce graduates who are highly competitive in the job market, as the numbers of individuals able to provide graduate-level instruction in the anatomical sciences is well above crisis level.

Animal and Food Sciences, MS

The degree of Master of Science is available in Animal & Food Sciences. Degree programs in Animal & Food Sciences provide advanced study and are divided into the disciplinary areas of animal nutrition, reproduction, physiology, and food science. Special interests in beef or dairy cattle, horses, poultry, sheep and swine may be pursued within many of these areas. Programs in food science offer specialization in food chemistry, food microbiology, food safety, meat biochemistry, and meat processing.

The MSASC degree is available in two options:

- Plan A: 30 credits, including 6 credits of thesis research, plus a Master's thesis.
- Plan B: 36 credits

Admission Requirements

- Applicants to the Master's program must have completed a four-year degree at an accredited institution of higher education, must have achieved at least a 3.00 GPA for all undergraduate courses, and must submit scores from the verbal, quantitative, and analytical portions of the Graduate Record Exam (GRE). Applicants must have completed; 1 course calculus or physics, 3 courses biology/ physiology, 3 courses chemistry (including 1 organic chemistry or biochemistry). Additional courses in physiology, cell biology, microbiology, and anatomy are encouraged.

Degree Requirements

- ASC 771 ANIMAL SCIENCE SEMINAR Section 1
- ASC 771 ANIMAL SCIENCE SEMINAR Section 2

<http://afs.ca.uky.edu/students/graduate>

Animal and Food Sciences, PhD

The Doctor of Philosophy degree is available in Animal and Food Sciences. Degree programs in Animal & Food Sciences provide advanced study and are divided into the disciplinary areas of animal nutrition, animal reproduction, reproductive physiology, or food science. Special interests in beef or dairy cattle, horses, poultry, sheep and swine may be pursued within many of these areas. Programs in food science offer specialization in dairy technology, food chemistry, food microbiology, food safety, meat biochemistry, and meat processing.

The Ph.D. in Animal & Food Science (PhDASC) degree requires an M.S. plus 18 additional credit hours.

Admission Requirements

- Applicants to the Ph.D. program must be in the process of completing, or have already completed, an M.S. degree or equivalent. They must have completed a four-year degree at an accredited institution of higher education, must have achieved at least a 3.00 GPA for all undergraduate courses, and must submit scores from the verbal, quantitative, and analytical portions of the Graduate Record Exam (GRE). Applicants must have completed; 1 semester calculus or physics, 3 semesters biology/ physiology, 3 semesters chemistry (including 1 semester of organic chemistry or biochemistry). Additional courses in physiology, cell biology, microbiology, and anatomy are encouraged.

Degree Requirements

- ASC 771 ANIMAL SCIENCE SEMINAR Section 1
- ASC 771 ANIMAL SCIENCE SEMINAR Section 2

<http://afs.ca.uky.edu/students/graduate>

Anthropology, PhD

Degree Requirements

The PhD program in Anthropology consists of a minimum of 36 credit hours, plus a minimum of two semesters of ANT 767 . Students must fulfill any and all other requirements of the Graduate School. An entering PhD student should complete required coursework by the end of the second year, and successfully defend a dissertation proposal and successfully complete the qualifying exams as early as the fifth semester, but no later than the tenth semester, after admission to the program. Upon acceptance into the graduate program, a student will be assigned a graduate advisor who will review and approve all first-year coursework, and in consultation with the DGS, evaluate requests for transfer of up to 9 credit hours of equivalent graduate-level coursework. Following the first year, all coursework will be approved by the student's committee.

Requirements in the Ph.D. program consist of: (1) three required courses - History of Theory (ANT 610) and a theory and a methods course in the student's designated sub-discipline, to be taken in the first year when available; (2) a course in Research Design (ANT 662), (3) an approved statistics course; (4) 7 courses (21 hours) of additional coursework, of which at least 1 course must be in an anthropological sub-discipline (archaeology, biological, cultural) other than the student's designated sub-discipline. Demonstrated competence by the student in reading or speaking one or more languages may be required by the student's committee. Students must complete and successfully defend to their committee a dissertation research proposal prior to the scheduling of the qualifying exams.

The MA/PhD Program

With the approval of the Graduate Committee and the Director of Graduate Studies, students without a Master's Degree may be admitted directly into the PhD program, and receive the MA following successful completion of the PhD qualifying exams. Students must take: (1) ANT 601 , ANT 610 and ANT 660 or ANT 610 , ANT 650 and ANT 651 ; (2) a statistics course at the 500+ level; and (3) a minimum of 15 additional credit hours of coursework in anthropology or cognate disciplines as approved by the student's committee. Anthropology faculty members have research experience in the following areas: South and Southeast Asia, North and Sub-Saharan Africa, Middle East and North Africa, Europe, the former Soviet Union, Latin America, and North America, including the urban and rural U.S. and with specialization in studies of Appalachia. Members of the department participate in interdisciplinary research in the University's College of Agriculture, College of Medicine, College of Education, and School of Public Health. The Department of Behavioral Science includes anthropologists on its faculty, and students with interests in medical anthropology are encouraged to take behavioral science courses

Applied Anthropology, MA

Since its inception in the 1960s, the graduate program has been nationally recognized as a leader in applied anthropology. We define applied anthropology as research with practical application and impact, but anchored in a rigorous foundation in anthropological theory and method, whether from cultural, biocultural, or medical anthropological, or bioarchaeological, historical archaeological, or archaeological perspectives, for example. With grounding in core anthropological and archaeological theory and method, we train our students to be skilled researchers who can traverse both academic and non-academic settings, bringing to their research a sound intellectual base, and skills for application and practice.

The M.A. degree in Applied Anthropology at UK is designed to train students to apply the theories, methods, and practices of anthropology to solve real world problems with community and organizational partners, and to prepare students for careers in different domains of application or for further graduate study. The program draws on the department's considerable research strengths in a variety of areas (see website for more information), and puts strong emphasis on training in theory, application, and proficiency in a broad range of current research methods and technical skills. The M.A. in Applied Anthropology program has three Areas of Concentration - Archaeology, Cultural Anthropology and Medical Anthropology. Students must declare their area of concentration in their program application.

Admissions Requirements

If you are entering the Anthropology M.A. program without previous training in anthropology, you might want to read *Perspectives: An Open Invitation to Cultural Anthropology* (a free online textbook available at <http://perspectives.americananthro.org/>) and/or a text recommended by your advisor (e.g., Charles Orser's 2016 text *Historical Archaeology*) prior to your first semester.

Degree Requirements

The degree completion requires 30 credits of coursework. The M.A. degree requires a written report based on the practicum. The report is written with the guidance of a committee of three faculty members. The final examination for the Master's degree is an oral presentation of the practicum project to the department. There is no foreign language requirement for the Master's degree in applied anthropology.

Archaeology Concentration:

The Archaeology concentration is aimed at preparing students for careers in applied archaeological anthropology, including cultural resource management, museum and heritage studies, and public archaeology.

Students are expected to have archaeological field school training before starting graduate school. UKY offers or recommends an archaeological field school each summer, and students who have not participated in a field school will be encouraged to seek mentored field experience through or beyond the program.

Students interested in careers in Cultural Resource Management will be encouraged to enroll in ANT 545 and electives in Historic Preservation, and program revisions are underway to further accommodate CRM career preparation.

Plan of Study:

Course	When taken	Cr Hrs
ANT 525 APPLIED ANTHROPOLOGY	1st semester	3
ANT 650 THEORY IN ARCHAEOLOGY	1st/2nd semester	3
ANT 651 ARCHAEOLOGICAL DATA ANALYSIS	2nd semester	3
3 courses in Archaeology (1 can be allied profession)	1st - 3rd semester	9

Course	When taken	Cr Hrs
2 courses as approved by advisor/committee (may include ANT 790)	1st - 3rd semester	6
ANT 760 - 6 credit hours practicum in applied anthropology	1st - 3rd semester	6
Total		30

Cultural Anthropology Concentration:

The Cultural Anthropology concentration is designed to prepare students for careers in various domains of application, including economic development, rural and urban development, business anthropology, public anthropology, human services, education, consulting and research, program monitoring and evaluation, and work with corporations, governmental and non-governmental organizations.

Plan of Study:

Course	When taken	Cr Hrs
ANT 525 APPLIED ANTHROPOLOGY	1st semester	3
ANT 610 HISTORY OF THEORY IN ANTHROPOLOGY	1st/2nd semester	3
ANT 660 ETHNOGRAPHIC RESEARCH	2nd semester	3
3 courses in Cultural Anthropology (1 can be allied profession)	1st - 3rd semester	9
2 courses as approved by advisor/committee (may include ANT 790)	1st - 3rd semester	6
ANT 760 - 6 credit hours practicum in applied anthropology	1st - 3rd semester	6
Total		30

Medical Anthropology Concentration:

The Medical Anthropology concentration is based on fundamental concerns with the study of social forces and health inequalities, and various programmatic endeavors and community-based responses to them.

Participants in the program will receive training in ethnographic methods, community-based participatory research and/or program evaluation along with instruction in anthropological perspectives on health and the intersection of anthropology with public health.

Plan of Study:

Course	When taken	Cr Hrs
ANT 525 APPLIED ANTHROPOLOGY	1st semester	3
ANT 610 HISTORY OF THEORY IN ANTHROPOLOGY	1st/2nd semester	3
ANT 660 ETHNOGRAPHIC RESEARCH	2nd semester	3
3 courses in Medical Anthropology (1 can be allied profession)	1st - 3rd semester	9
2 courses as approved by advisor/committee (may include ANT 790)	1st - 3rd semester	6
ANT 760 - 6 credit hours practicum in applied anthropology	1st - 3rd semester	6
Total		30

Requirements for all M.A. Students:

Practicum:

All M.A. students must enroll in 6 credit hours of ANT 760 (Practicum in Applied Anthropology). The practicum is expected to be the equivalent of a full-time effort for at least one academic semester.

Departmental Presentation:

All M.A. students are required to write a report and to deliver a presentation to the department as a condition of graduation.

Applied Behavior Analysis Certificate

This 21-credit hour graduate certificate is designed to meet the coursework requirements for students that wish to pursue the Board Certification in Behavior Analysis (BCBA) . To obtain a BCBA, there are 4 criteria that must be met including a master's degree, coursework covering the necessary 315 content hours, 2000 field experience hours, and passing the national board exam. This certificate will meet the coursework requirement of the certification.

Applied Behavior Analysis, MS

The field of Applied Behavior Analysis is the application of the science of behavior to understand and improve human behavior. Our goal is to create a socially significant change in behavior that improves the lives of our clients.

The Master of Science in Applied Behavior Analysis (MS in ABA) is an on-campus degree program that will train graduate students to provide behavior analytic services to individuals with challenging behavior and/or skill deficits. These services are provided through direct care, consultation, support, and training to teachers, staff, parents, and clients. The MS in ABA provides opportunities for graduate students to work within schools, homes, clinics, or related settings with individuals with or at-risk for disabilities (Birth - 21 years of age).

Admission Requirements

1. Applicants must hold a bachelor's degree in psychology, education, special education, social work, communication disorders, or a closely related field.
2. Applicants must have a minimum of a 3.0 undergraduate grade point average or a minimum of 3.25 graduate grade point average.
3. Applicants must secure three (3) letters of recommendations with one related to academic performance (e.g., from professor, advisor) and two related to the applicant's work with children and youth (e.g., from practicum supervisor, research supervisor).
4. Applicants must submit an updated CV (or resume) overviewing their education and experiences.
5. Applicants must submit a writing sample of a scholarly paper (e.g., research paper, literature review completed in APA formatting).
6. Applicants must submit a personal statement describing previous experiences that led to this career goal.
7. Applicants must participate in an interview with program faculty.
8. Upon acceptance, applicants must satisfactorily pass a criminal background check (due to the nature of the work performed by behavior analysts).

Applications are due December 15 for a Fall start.

Degree Requirements

The M.S. in ABA degree is a 42-credit hour program.

The Association for Behavior Analysis International (ABAI) has accepted courses within the MS in ABA program as a verified course sequence. In addition, students in the MS in ABA program will receive required supervision within the practicum setting. The verified course sequence and practicum/supervision requirements will prepare those who complete the MS in ABA to sit for the Board Certified Behavior Analyst

(BCBA) examination. More information regarding the BCBA examination and requirements can be found at www.bacb.com.

Core classes include:

- EDS 601 CONCEPTS AND PRINCIPLES OF APPLIED BEHAVIOR ANALYSIS
- EDS 603 BEHAVIORAL CONSULTATION AND SUPERVISION
- EDS 605 ASSESSMENT AND TREATMENT OF SOCIAL AND ADAPTIVE BEHAVIORS
- EDS 612 ADVANCED PRACTICUM: SPECIAL EDUCATION
- EDS 617 PROFESSIONAL ETHICS FOR BEHAVIOR ANALYSTS
- EDS 618 ASSESSMENT AND TREATMENT OF PROBLEM BEHAVIOR
- EDS 630 ADVANCED METHODS FOR TEACHING STUDENTS WITH DISABILITIES
- EDS 633 SINGLE CASE RESEARCH METHODOLOGY
- EDS 660 OVERVIEW OF CHARACTERISTICS AND INSTRUCTIONAL STRATEGIES FOR INDIVIDUALS WITH ASD
- EDS 661 ADVANCED INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH ASD
- EDS 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE PROGRAM

<https://education.uky.edu/edsrc/eds/degrees-programs/aba/>

Applied Environmental and Sustainability Studies Certificate

The online Graduate Certificate in Applied Environmental and Sustainability Studies prepares graduates for positions in the corporate, government, and non-governmental worlds as a sustainability manager, corporate sustainability specialist, or one of many other fast growing environmental and sustainability professions. Students take a total of 12 credit-hours of graduate coursework. This consists of 9 credit-hours in Environmental and Sustainability Studies and a methods/skills elective. The curriculum is available here.

Applied Environmental and Sustainability Studies, MA

The online Master of Arts in Applied Environmental and Sustainability Studies prepares graduates for positions in the corporate, government, and non-governmental worlds as a sustainability manager, corporate sustainability specialist, or one of many other fast growing environmental and sustainability professions.

Students take a total of 30 credit-hours of graduate coursework (24 credits of coursework and 6 credits of either capstone research or internship). Coursework consists of three core courses (total of 9 credit hours), two skills courses (total of 6 credit hours), and three elective courses (total of 9 credit hours) to expand their skills, insights and engagement with Environmental and Sustainability Studies. This MA degree only offers non-thesis, plan B options: Upon completing these 24 credit-hours, students take two courses for three credits each to prepare and implement their final Master's research project under the supervision of faculty members. The MA also offers the alternate plan B option of completing six credit hours of internship work under supervision of faculty members. All MA students will have a final oral examination.

Admission Requirements

- CV or resume
- Statement of Purpose (2-3 pages)
- Writing Sample (optional)
- Undergraduate transcript
- A non-refundable \$65 application fee (\$75 for international applicants)
- TOEFL or IELTS score (international applicants only). Minimum scores are listed on the graduate school's admission page.
- GRE or GMAT scores are NOT required for admission to this program.

Degree Requirements

Core Courses (9 Credit Hours)

- ENS 601 ENVIRONMENT AND SUSTAINABILITY: ISSUES AND IDEAS (3 credit hours)
- ENS 602 ENVIRONMENT AND SUSTAINABILITY POLICY AND GOVERNANCE (3 credit hours)
- ENS 603 COMMUNICATING ENVIRONMENTAL AND SUSTAINABILITY STUDIES (3 credit hours)

Skills Courses (6 Credit Hours)

Students choose a total of 6 credit hours from two of the skills courses listed below.

- LA 556 CONTEMPORARY GEOSPATIAL APPLICATIONS FOR LAND ANALYSIS / NRE 556 CONTEMPORARY GEOSPATIAL APPLICATIONS FOR LAND ANALYSIS (3 credit hours)
- MAP 671 INTRODUCTION TO NEW MAPPING (3 credit hours)
- STA 570 BASIC STATISTICAL ANALYSIS (3 credit hours)
- STA 674 REGRESSION ANALYSIS AND DESIGN OF EXPERIMENTS (3 credit hours)
- STA 677 APPLIED MULTIVARIATE METHODS (3 credit hours)

Capstone/Internship (6 Credit Hours)

Students must complete one of two options to satisfy the non-thesis requirement for the Master's in Applied Environmental and Sustainability Studies. All students will be required to complete a one-hour oral exam.

Plan B Option #1 Internship

Complete 6 credit hours of internship coursework:

- ENS 697 INTERNSHIP IN APPLIED ENVIRONMENTAL AND SUSTAINABILITY STUDIES I (3 credit hours)
- ENS 698 INTERNSHIP IN APPLIED ENVIRONMENTAL AND SUSTAINABILITY STUDIES II (3 credit hours)

Plan B Option #2 Capstone

Complete 6 credit hours through a capstone research project and report

- ENS 695 RESEARCH IN APPLIED ENVIRONMENTAL AND SUSTAINABILITY STUDIES (3 credit hours)
- ENS 696 REPORTING RESEARCH IN APPLIED ENVIRONMENTAL AND SUSTAINABILITY STUDIES (3 credit hours)

Elective Courses (9 Credit Hours)

Students must take an additional 9 credit hours from the approved list of courses. Other courses at the 600-level and above that relate to environmental and sustainability studies may be used to satisfy this requirement with the permission of the program director. Students may only count 6 credit hours of ENS 605 (under different subtitles) or ENS 699 (up to 3 credit hours) towards this requirement.

Applied Nutrition and Culinary Medicine Certificate

The Graduate Certificate in Applied Nutrition and Culinary Medicine is an online, 12-credit program. This unique graduate certificate is a collaborative effort across the Colleges of Medicine, Health Sciences, and Agriculture, Food and Environment, leveraging faculty expertise from biomedical, clinical and applied sciences. Core coursework explores nutritional approaches to various disease states and practical culinary strategies to bridge dietary recommendations with application. Elective courses allow students to tailor their graduate certificate to the needs of their practice or discipline, while also presenting the latest research concerning drug and nutrient interactions, approaches to community program development, and the physiologic basis for (or against) various dietary supplements. This graduate certificate aims to provide a better understanding and appreciation for the importance of nutrition education for health professionals (physicians, nurses, physician assistants, physical therapists and medical professionals in postgraduate training, etc.) in multiple disciplines, and to recognize the importance of engaging registered dietitians to enhance health outcomes in patients. Post baccalaureate students interested in graduate nutrition education that meet the prerequisite requirements will also be considered for admission.

Applied Statistics Certificate

Statistical data analysis is ubiquitous in all areas of science, engineering, medicine, agriculture and education. Research and professional success in these disciplines often depends on using the latest

advances in applied statistics. Multidisciplinary research projects involving a substantial component of applied statistics are becoming a frequent venue of expanding the borders of knowledge. This certificate will train graduate and professional degree students in the use of applied statistics in their own field. The students will be able to use this enrichment to become more productive professionals, to further research in their own areas and to engage in multidisciplinary research relying on applied statistical techniques.

Applied Statistics, MAS

The Department of Statistics offers programs of study leading to the degrees of Master of Science (Plan A or B available), Doctor of Philosophy, and Master of Applied Statistics (Online). The M.S. degree is professionally oriented for the student who plans a career in government, business or industry and is preparatory for the Ph.D. The Ph.D. program offers a broad training in both statistical theory and methods while affording options to suit the student's interests. The statistics Ph.D. is well-suited for academic, business, government and industrial positions. In addition to formal course work and research training, the advanced student has opportunities to gain valuable practical experience by participating in consulting activities under faculty supervision. Master of Applied Statistics is an innovative online professional graduate degree which is designed to train professional, practice-oriented statisticians who have both data analytic and computing skills.

Both, the M.S. and the Ph.D. program offer a Mathematical Statistics track, as well as a Biostatistics track. The latter tracks are designed for students who envision a future at the interface of Statistics and the Life Sciences.

Course work is available in areas associated with statistics such as biological modeling, probability, inference, experimental design and analysis, computational statistics, nonparametric methods, Bayesian analysis, mixed modeling, multivariate analysis, survival analysis, clinical trials, and many other selected topics of the student's choice.

The University of Kentucky is represented on the Committee on Statistics of the Southern Regional Education Board.

Admission Requirements

Students with an undergraduate major in any of the mathematical, physical, biological, social or applied sciences are encouraged to apply.

The minimum GRE and GPA admissions requirements for the M.S. and Ph.D. programs in Statistics are the same as for the Graduate School. However, the number of admissions is limited and admissions decisions are made on a competitive basis. All M.S. applicants must have successfully completed a three or four semester sequence in calculus and a course in linear algebra and have good communication skills. In addition, all Ph.D. applicants must have mastered the equivalent of MA 471G. All Master of Applied Statistics applicants must have completed two semesters of calculus and a course in statistical methodology. Students wishing to apply for teaching assistantships and/or fellowships must submit three letters of recommendation. Applicants wishing to be admitted directly to the Ph.D. program must have an M.S. in Statistics and the permission of the Director of Graduate Studies.

Please see the departmental website for up-to-date information and answers to frequently asked questions about the admissions process.

Degree Requirements

The Master of Applied Statistics is a thirty hour, online, Plan B, professional graduate degree that can be completed in a summer and two consecutive semesters or on a part-time basis. The program is unique in that it uses data visualization and statistical computing to teach fundamental concepts in statistical inference to students with a career-oriented focus on data analysis.

Core Courses (Required for all students)

- STA 645 COMPUTATIONAL THEORY AND DATA VISUALIZATION (3)
- STA 646 FOUNDATIONS OF PROBABILITY AND INFERENCE (4)
- STA 647 STATISTICAL COMPUTING WITH SAS (2)
- STA 648 REGRESSION METHODS (4)
- STA 649 DESIGN OF EXPERIMENTS (4)

The electives can be selected from the menu of courses listed below.

- STA 650 APPLIED MULTIVARIATE STATISTICS (3)
- STA 651 ADVANCED PROGRAMMING WITH R (1)
- STA 652 ADVANCED STATISTICAL MODELING (3)
- STA 654 APPLIED BAYESIAN INFERENCE (3)
- STA 656 STATISTICAL QUALITY CONTROL (3)
- STA 659 ADVANCED STATISTICAL METHODS (3) (subtitle required)

Architecture, MAR

The Master of Architecture is a professional graduate degree, accredited by the National Architecture Accrediting Board (NAAB). This two-year degree comprises the second part of a sequential "4+2" curriculum, in which a student obtains a four-year (pre-professional) Bachelor of Arts in Architecture and concludes with the two-year, professional Master of Architecture degree. Students who receive this degree are eligible to seek professional registration as an architect.

The "3+ year track" is available to students without the pre-professional bachelor's degree or background in design. In addition to Master of Architecture core requirements, students in the 3+ year track take accelerated courses and courses determined by the DGS on a case-by-case basis that achieve design proficiency.

Admission Requirements

Applicants for admission to the Master of Architecture degree program must hold a Bachelor of Arts in Architecture or a Bachelor of Architecture degree from a NAAB-accredited institution. Admission to the program is contingent on acceptance by the Graduate School at the University of Kentucky. Applicants are required to submit a portfolio, a personal essay on graduate expectations, transcripts, and GRE scores.

Students who do not hold a Bachelor of Arts in Architecture or Bachelor of Architecture may apply to the 3+ year track. Applicants are required to submit a portfolio, a personal essay on graduate expectations, transcripts, and GRE scores, and must submit three letters of recommendation.

Admission to the program is based on a review of the submitted materials.

Degree Requirements

To obtain the Master of Architecture degree, students must complete 48 credit hours of graduate work as described in the curriculum below. Every student must complete a Master's Project. Requirements for this degree are governed by and satisfy the accreditation requirements of the National Architecture Accrediting Board.

Credit hours for students in the 3+ year track will vary by student.

MASTER OF ARCHITECTURE - 2 Year Track

Total Hours Architecture Core requirements	33
Master's Project Research	3
Master's Project	6
Electives	6
Total Graduate	48

Please find more information and a curriculum plan on the College of Design website at: <http://design.uky.edu/architecture-degrees/>

MASTER OF ARCHITECTURE - 3+ Year Track

Total Hours Architecture Core requirements	33
3+ Year Track requirements (typical/varies by student background)	30
Master's Project Research	3
Master's Project	6
Electives	6
Total Graduate (will vary based on 3+ courses taken)	75

Please find more information and a curriculum plan on the College of Design website at: <http://design.uky.edu/architecture-degrees/>

Art Education, MA

The Teacher Leadership Program in Visual Arts Education is a planned two-year experience, including two summers, designed to prepare currently certified art educators to exert independent leadership for improving the performance of P12 schools in the areas of enhanced achievement and increased college and career readiness.

In addition to teacher leadership coursework, each candidate will pursue a selected area of specialization of at least twelve credit hours designed not only to increase his/her content expertise, but also to build the candidate's portfolio of graduate content courses which can lead, under SACS rules, to approval for teaching dual credit courses in the public schools (in collaboration with a local college or university).

Along with theory and practice, art education provides students with a strong foundation in art studio and art history. The Master of Arts (M.A.) in Art Education provides in-service training, professional development, and consultation services to the schools of Fayette County and the Commonwealth of Kentucky.

Admission Requirements

Candidates admitted to the graduate program in Art Education are expected to have completed course work equivalent to an undergraduate major in Art Education (in no case less than 18 hours in Art Education and Education, 12 hours in Art History, and 18 hours in Art Studio). Prospective candidates who do not meet these requirements should seek the counsel of the Program Faculty Committee to make up deficits prior to acceptance into the program. In addition, candidates must submit for review by the Program Faculty Committee, a portfolio of recent artworks and professional writing and other evidence of professional attainment (or a 300-500-word statement of interest in advance studies in Art Education).

Degree Requirements

Requirement To Be Added

Art History, MA

The Master of Arts in Art History prepares students with the course work, language skills, and research experience needed for further graduate study or work in arts organizations or educational settings. The curriculum is structured to provide both breadth and depth of inquiry through a variety of approaches to art history and, more broadly, visual studies. We recommend that courses be selected in consultation with the graduate advisor to take full advantage of the multiple approaches, expertise, and insights of the faculty.

Admission Requirements

Applicants from a wide variety of educational backgrounds may earn a M.A. degree in Art History. However, those without an undergraduate art history major should consult with the art history & visual

studies graduate advisor before applying. Depending on one's prior preparation, some students may be advised to enroll as a post-baccalaureate to take selected preparatory courses that may count toward the graduate degree requirements if the student is later admitted to the M.A. program (as outlined in The Graduate School's general regulations). Requirements otherwise conform to UK general requirements for Graduate School admission.

Application Procedures

The Graduate School, which is the administrative unit for all graduate students, and the Art History & Visual Studies graduate program, which is responsible for the academic curriculum, require different application materials. Application materials for admission to the Graduate School include:

- Application form
- Copies of transcripts from all higher education institutions previously attended, which should be uploaded on the appropriate location of the online application. Domestic students are to self-report GPAs for each institution attended. (Tip: Convert transcripts on colored paper to white with black ink so as not to exceed the megabyte limitation on the online form.)
- GRE scores that you self-report in the appropriate location on the online application. (At the point of acceptance into the program, official GRE scores must be requested and sent directly from the Educational Testing Service (ETS) to the University of Kentucky; the Institution Code for the GRE for UK Graduate School is R1837).
- TOEFL scores and/or IELTS scores if an international student.
- Application fee.

Application materials for the Art History graduate program are also to be submitted online on the graduate admissions application and include:

- Brief résumé
- Personal statement that explains your interest in art history graduate study, experience, and plans.
- Sample of research writing, such as an undergraduate research paper
- Contact information in the form of email addresses for two recommenders who will be notified to submit their recommendations electronically to the online system.

Application Deadlines January 1 - for all applicants, including those requesting a teaching assistantship. Students who want an assistantship should send a separate letter that indicates their interest in being considered either by e-mail attachment or in hard-copy form to the Graduate Advisor in Art History & Visual Studies, School of Art & Visual Studies, 236 Bolivar Street, University of Kentucky, Lexington, KY 40506-0090

Degree Requirements

In addition to the provisions below, either option also conforms to general degree requirements for all Master of Arts Programs.

Plan A - Thesis Option

Candidates who plan to continue study at the doctoral level should select Plan A. This option emphasizes art historical research, problem solving, and communication skills. Specific requirements include:

1. Minimum of 30 credit hours of graduate course work.*
2. Foreign language reading competency in one foreign language (German usually recommended).**
3. Satisfactory completion and oral defense of a thesis.

Plan B - Non-Thesis

Option Plan B emphasizes course work to broaden the candidate's foundation in art historical knowledge, theory, and methods. Candidates who plan careers in visual arts fields that do not require a Ph.D. - professional placements in galleries, museums, art organizations, arts administration, etc. - may want to select this option. Specific requirements include:

1. Minimum of 36 credit hours of graduate course work.*
2. Foreign language reading competency in one foreign language (German often recommended).**
3. Satisfactory completion of final comprehensive exam.

*Six of the minimum 30 or 36 required credit hours may be taken in related areas such as anthropology, film studies, historic preservation, history, literature, philosophy, studio art, or women's studies, as determined by consultation with the graduate advisor.

**The foreign language competency requirement may be satisfied by any of the means established by the Graduate School.

Art Studio, MFA

The Master of Fine Arts (MFA) degree in Art Studio is the terminal academic degree for studio artists and the required faculty credential for most institutions of higher learning. In addition to being fully qualified to teach at the college-level, MFA graduates will possess the skills to pursue careers in commercial venues or as full-time practicing fine artists. Students enrolled in the MFA program are encouraged to explore interdisciplinary and cross-disciplinary mediums or concentrate upon a single media dependent upon the direction of their research.

Admission Requirements

While a B.A. or B.F.A. in studio art is the preferred preparatory degree for the M.F.A. program, students from a variety of educational backgrounds may apply. The determinate factor in admittance to the program will be the quality of the submitted artwork.

Application Procedures

The Graduate School, which is the administrative unit for all graduate students, and the Art Studio graduate program, which is responsible for the academic curriculum, require different application materials.

Application for admission to the Graduate School requires:

- A completed application form for the Graduate School (on-line application form available at <http://gradschool.uky.edu>).
- One official transcript from all institutions previously attended.
- TOEFL scores and/or IELTS scores if an international student.
- Application fee.
- An electronic portfolio of 20 recent artworks sent as a .pdf with an image key with title, date, size, and medium for each submitted work as part of that document. (maximum resolution 8" x 10" x 72 dpi - NO PowerPoint presentations). This portfolio is to be uploaded as one document under the "Portfolio"; submission button. If your files are too large, please resize them. If sending timebased materials (such as video), please include a link to your work on a website such as vimeo, personal site, or YouTube.
- A brief letter stating your goals for graduate study and your interest in being considered for an assistantship, fellowship, and or internship and can be uploaded using the "Personal Statement" submission button. A writing sample is not required ignore the prompt.
- A brief resumé uploaded via the CV submission prompt
- Three letters of recommendation

Degree Requirements

The M.F.A. degree will be awarded on the completion of 60 hours of graduate course work. Of these, 30 hours must be at or above the 600 level and 40 hours must be in regularly scheduled graduate courses (excludes the following course types: research, independent study, practicum, residency):

Requirements:

- Art Studio - Students must take a minimum of 33 credit hours of Art Studio courses including A-S 793 GRADUATE STUDIO SEMINAR required of M.F.A. candidates every fall semester of their residency.
- Art History - Students must take a minimum of 9 credit hours of Art History including three hours of A-H 650 ADVANCED CONTEMPORARY ART HISTORY.
- Gallery Practicum - Students must take A-H 502 MUSEUM STUDIES II: INTERNSHIP.
- MFA Thesis - A total of 6 credits of A-S 799 M.F.A. STUDIO THESIS PROJECT are required for the preparation and successful completion of a final one-person M.F.A. exhibition of studio work.

Other Requirements

- Up to 9 credit hours in related graduate courses may be taken outside the School of Art and Visual Studies or elsewhere in the University.
- A foreign language is not required, and the M.F.A. degree is offered only according to Plan B.

Arts Administration, MA

The University of Kentucky prepares the next generation of arts leaders through its innovative online MA in Arts Administration. This degree is designed to serve a vibrant nonprofit arts and cultural industry that attracts more than 78 million Americans each year and generates \$135 billion in economic activity annually that support 4.1 million jobs.

Ideal candidates for the M.A. include individuals who have experience in the arts or arts management and have the desire to supplement this experience with more in-depth training in the form of an advanced business and nonprofit arts-focused degree. These include persons who have graduated with a bachelor's degree in Arts Administration, the arts, or a related field and professionals with experience in the arts or arts management.

UK offers its M.A. in Arts Administration as a completely online program. This provides several benefits to UK graduate students:

1. **Flexibility** - For working professionals, an online program is ideal to provide the flexibility needed to balance work, school and personal obligations.
2. **Time and location** - There is no residency requirement. The program is designed for students to have equal access no matter where they are located
3. **Affordability** - All students accepted into the Arts Administration M.A. program pay the in-state tuition rate regardless of residential location. Additionally, there are a number of financial aid options available to students who meet the requirements.
4. **Quality instruction** - Students who attend online classes will receive the same quality instruction as those who would attend class on-campus.

Admission Requirements

The MA in Arts Administration is open to qualified applicants who have earned a bachelor's degree from an accredited college or university in the United States or abroad. All candidates for admission are selected on the basis of undergraduate transcripts, academic and personal references, and related work experience. Applicants are expected to have a demonstrable commitment to the arts in at least one art form. This requirement can be satisfied in several ways including an undergraduate degree in an art form or arts-related field; professional experience in the arts; or extra-curricular activity in the arts.

All applicants whose native language is not English will be required to submit TOEFL or IELTS scores. The minimum acceptable TOEFL score is 550 (paper-based) 213 (computer-based), or 79 (internet-based). The minimum IELTS score is 6.5. Submitted scores must be no more than two years old.

Applications for admission to the M.A. in Arts Administration program are reviewed by the department's Graduate Admissions Committee. The criteria for admission and the materials evaluated in making

admission decisions are listed below. Please keep in mind that applicants are evaluated individually and also in terms of the overall quality of the pool of applications.

To apply for admission to the program, your application should include the following items:

- **Official transcripts**
- A **resume** (no more than two pages in length) indicating your education, professional and volunteer experience, accomplishments and qualifications for graduate study.
- A **statement of purpose** (one page, single-spaced) indicating the reasons for your interest in graduate study in Arts Administration at UK and what they hope to accomplish with their degree. Please also discuss your personal or professional skills that will aid you in successfully completing classes online.
- **Writing samples** (10-15 pages) that preferably would include at least one sample of research writing (college-level or above) but may also include professional writing samples that demonstrate critical and analytical thinking. Professional writing samples may include researched essays, marketing or fundraising materials, planning documents or journalistic work. If you do not have an academic or professional writing sample that you wish to submit, you may opt to write a new paper. The research paper should address one of the following topics and should include appropriate citation and references:
 - Discuss an issue in the arts or arts administration that you believe is of particular concern locally, regionally, nationally or internationally.
 - Select a person who has had a significant influence in an artistic field. Describe and analyze the person's contributions to the arts.
 - Write an essay responding to and providing compelling examples of this quote: "Art is a nation's most precious heritage. For it is in our works of art that we reveal to ourselves and to others the inner vision which guides us as a nation. And where there is no vision, the people perish." -Lyndon Johnson, on signing into existence the National Endowment on the Arts
 - Any arts-related topic of your choosing
- **Two letters of recommendation** addressing the applicant's qualifications for graduate work and proclivity for the field of arts administration. Preferably one letter should come from an academic reference and one from a professional reference. When completing your online application, you will be asked to enter in the contact information of your references including their email addresses. Your references will then receive a notification email asking them to complete a recommendation on your behalf. You can check on the status of your online recommendations by logging in to your online application.

To apply for admission to the MA in Arts Administration, applications must be submitted online to the UK Graduate School. New graduate students are accepted in the fall, spring, and summer semesters.

Degree Requirements

AAD 500 THE ARTS AND ARTISTS IN SOCIETY (3 credit hours)

AAD 600 ARTS ADMINISTRATION TECHNOLOGIES (3 credit hours)
AAD 620 MANAGEMENT AND LEADERSHIP IN THE ARTS (3 credit hours)
AAD 625 FINANCIAL MGMT FOR ARTS ORGANIZATIONS (3 credit hours)
AAD 630 MARKETING RESEARCH AND PLANNING FOR ARTS ORGANIZATIONS (3 credit hours)
AAD 640 PRINCIPLES OF FUNDRAISING (3 credit hours)
AAD 650 THE ARTS AND THE LAW (3 credit hours)
AAD 690 CREATING & EVALUATING NEW ARTS PROGRAMS (3 credit hours)
AAD 730 MARKETING STRATEGIES & APP FOR ARTS ORGS (3 credit hours)
AAD 740 FUNDRAISING TECHNIQUES (3 credit hours)

Graduate Exam - Required for completion of the MA in Arts Administration

Degree Options

AAD 699 INTERNSHIP IN ARTS ADMINISTRATION ** (3 credit hours)

AAD Electives* (3 credit hours)

**Students must complete 3 credits of electives.*

***Students are required to take AAD 699 (unless they are exempt) in which case they will take a 3-credit elective course to be determined in consultation with a faculty advisor.*

Please visit the program website for more information (<https://finearts.uky.edu/arts-administration/online-ma-degree>).

Arts Administration, PhD

The field of arts administration is largely considered to have been formally developed in the United States in the 1960s. The institutionalization of the field has continued to solidify and expand well into the 21st century.

What was once considered a niche industry, the arts and cultural sector, is one of the largest exports of products of the US (and one of the only with a trade surplus), supports over 4.9 million jobs, and contributes \$730 billion to the nation's gross domestic product (GDP). By contributing 4.2% to the US GDP, arts and cultural production is a larger economic sector than agriculture, travel and tourism, transportation and warehousing, and construction.

As the field has expanded so has the necessity for appropriately trained researchers. The PhD in Arts Administration at the University of Kentucky allows committed and engaged arts scholars the opportunity to study in a rigorous, online degree program focused on field competencies and research methodologies regardless of residential location.

Admission Requirements

The program is designed to provide research specialization in arts and culture beyond the master's level. All students are expected to have at least minimal training in the common body of knowledge in the functional areas of arts administration.

In order to apply to the PhD in Arts Administration, students must have an earned graduate degree in arts administration or a related discipline. Field practitioners in the arts and cultural sectors with graduate degrees in related disciplines may be considered for admission; however, would likely be assigned foundational coursework which would not apply to the required 46-credit hours for the PhD.

Students will only be admitted in the fall semester.

Students interested in the PhD in Arts Administration will be required to submit an application for the degree utilizing the system as designated by the UK Graduate School. Students will be required to submit the following items:

1. **Current Resume or CV.** The resume/CV should include the applicant's contact information; work experience including relevant arts and culture-based work and/or volunteer experience; education; research and teaching experience, if applicable; publications, papers, and research presentations, if applicable; and any special skills or qualifications relevant to a pursuit of a doctoral degree.
2. **Statement of Purpose.** The statement of purpose should include the rationale and purpose of the applicant's desire to pursue a PhD in Arts Administration at UK as well as preliminary research interests, and career goals after achieving the PhD. What is it about arts administration that makes you desire to spend the next four years of your life studying it, researching it, and writing about it in a dissertation? Your statement of purpose must be a serious explanation of your interests.
3. **Portfolio of Writing Samples.** The written portfolio must consist of one or more academic writing samples. It could, if relevant, include professional writing samples. The written portfolio should be at least 20 pages in length with a minimum of one research writing sample being 12-15 pages. Applicants should submit no more than 50 pages for review. Before selecting your writing portfolio pieces, we recommend you read, Graduate School Writing Samples by Bernard Nickel. Remember, a doctoral student's primary activities are reading and writing. The committee needs to see the strongest writing sample(s) possible. Often this means that you will need to write a new sample or expand on a piece of writing you have previously completed. Acceptable examples include but are not limited to:
 1. A previously published article or conference paper with references.
 2. A recent graduate level essay on a related arts and culture topic with references.
 3. A newly drafted paper that addresses a key issue or question within the arts and cultural field.
4. **Transcripts.** Applicants may submit unofficial transcripts for all university and college degrees earned. Upon acceptance, official transcripts are required.
5. **GRE scores.** GRE scores are required as a university policy. The GRE cannot be waived. There is no minimum score; GRE scores are considered in combination with other application materials.
6. **Three letters of recommendation.** A combination of professional and academic references is preferred. Letters should be able to speak to a candidate's ability to successfully complete graduate level coursework, research aptitude, and advanced writing skills.

The Arts Administration Graduate Admissions Faculty will review the PhD applications in order to select the finalists. Finalists will be interviewed via video conference in order to determine the student's:

- Rationale for pursuing a PhD;
- Proclivity to online education and aptitude for rigorous research expectations;
- Area of research interest; and
- Systems in place to support the student through doctoral studies.

Accepted Applicants to the PhD in Arts Administration will be provided instructions on how to apply for the Graduate Certificate in Research Methods in Education. There is no need to apply for the certificate prior to acceptance.

Degree Requirements

The minimum coursework required is 46 hours. Up to 9-credit hours may be transferred into the program for students who have taken courses above the requirements of a master's degree with the advice of the student's advisory committee, Director of Graduate Studies, and Graduate School approval.

ARTS ADMINISTRATION CORE (15 hours)

AAD 655 CULTURAL POLICY (3 credit hours)

AAD 665 CREATIVE CITIES, CREATIVE PLACEMAKING, & COMMUNITY VIBRANCY (3 credit hours)

AAD 629 ORGANIZATION THEORIES IN ARTS ADMINISTRATION (3 credit hours)

AAD 720 SUSTAINING LEADERSHIP IN THE ARTS (3 credit hours)

AAD 790 ARTS AND CULTURE RESEARCH STUDIES (3 credit hours)

RESEARCH METHODS CORE (15 hours)

EPE 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA / EDP 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA (3 credit hours)

EPE 619 SURVEY RESEARCH METHODS IN EDUCATION (SUBTITLE REQUIRED) (3 credit hours)

EPE 620 TOPICS AND METHODS OF EVALUATION / EDP 620 TOPICS AND METHODS OF EVALUATION (3 credit hours)

EPE 663 FIELD STUDIES IN EDUCATIONAL INSTITUTIONS (3 credit hours)

AAD 795 ARTS ADMINISTRATION RESEARCH PLANNING & PROPOSAL WRITING (3 credit hours)

ARTS ADMINISTRATION RESEARCH AREA (9 hours)

Students will select 9 credit hours of coursework within the Department of Arts Administration at the 500-, 600-, or 700-level.

Students wishing to take coursework outside of the Department of Arts Administration should receive approval from the DGS prior to enrollment.

ELECTIVE (3 hours)

Students may select 3 credit hours of elective course work within or outside the Department of Arts Administration. Students should consult with their advisor to select elective course(s).

DISSERTATION CREDIT (minimum of 4 credit hours)

AAD 767 ARTS ADMINISTRATION DISSERTATION RESIDENCY CREDIT*

Students must register for this course in the semester of their qualifying examination. A minimum of two semesters are required as well as continuous enrollment (in fall and spring semesters) until the dissertation is complete. These hours constitute full-time enrollment. (4 (+) (Minimum number of AAD 767 credit hours required. Students must continually enroll until degree is complete.))

TOTAL CREDIT HOURS (46+ hours)

Earned master's degree in Arts Administration plus 46+ Minimum number of credit hours required. Students who do not complete their dissertation within two semesters must continually enroll in AAD 767 until the degree is complete.

*Students need not be physically on campus while enrolled in course work or dissertation residency hours. The term "residency" refers to continual enrollment.

Degree Requirements

PhD in Arts Administration students must complete all of the following requirements:

- Complete all assigned foundational coursework (if applicable);
- Complete all PhD coursework (minimum of 46 hours) while maintaining a minimum GPA of 3.0 out of 4.0 on all graduate work attempted at UK,
- Pass the written and oral dissertation proposal in the fourth semester of coursework,
- Write three chapters of a dissertation based on the approved proposal;
- Complete a written dissertation based on the approved proposal and comprehensive exam; and
- Successfully defend the dissertation in an oral presentation.

Students completing these requirements will earn a **PhD in Arts Administration** and a **Certificate in Research Methods in Education**.

Please visit the program website for more information (<https://finearts.uky.edu/arts-administration/phd>).

Assistive and Rehabilitation Technology Certificate

The graduate certificate in assistive and rehabilitation technology is a collaborative effort between the Department of Early Childhood, Special Education, and Rehabilitation Counseling and the Department of Rehabilitation Sciences in the College of Allied Health and the Human Development Institute. Students may choose an emphasis from either special education or rehabilitation counseling. Both emphases will require three foundation courses, one related elective and one practicum course for a total of 15 graduate hours. The content of the certificate is broad. Major areas include Assistive Technology Devices, Assistive Technology Assessment and Coordination of Assistive Technology Services.

Athletic Training, MS

Program Mission: The mission of the professional Master of Science in Athletic Training at the University of Kentucky is to effectively prepare entry-level athletic trainers, who are life-long learners and servants to their communities, for employment and/or pursuit of advanced education by providing a comprehensive education in a collaborative, evidence-based, patient-centered environment that includes robust educational, scholarly, clinical, and service opportunities.

For Program Goals and Student Learning Goals, please see the Program website: <https://www.uky.edu/chs/athletic-training/professional/achievement>

Accreditation Information: The University of Kentucky is currently seeking accreditation for their new Athletic Training program and is not accredited by the Commission on Accreditation of Athletic Training Education (CAATE). The institution will be submitting a self-study to begin the accreditation process on July 1, 2021. Submission of the self-study and completion of the site visit in early Spring 2022 does not guarantee the program will become accredited. Students that graduate from the program prior to accreditation WILL NOT be eligible to sit for the credentialing examination for athletic trainers and will not be eligible for licensure in most states.

Most states require athletic trainers to have a state license. License requirements vary by state, but most states require that the BOC national certification be earned. This certification requires graduation from a CAATE accredited program. Due to our accreditation status, it cannot currently be determined whether the Professional M.S. in Athletic Training meets the educational requirements needed to obtain a Kentucky athletic training license. Before enrolling, students should learn more about whether the Athletic Training programs meet licensure requirements in Kentucky and all states where they may be interested in pursuing licensure.

Admission Requirements

Must have a minimum overall GPA >3.0 (out of 4.0)

Must have a minimum grade of C in all prerequisite coursework:

- Biomechanics (3 credits)
- Exercise Physiology (3 credits)
- Human Physiology (3 credits)
- Human Anatomy (3 credits)
 - Can be combined Anatomy and Physiology (I and II, 6 credits total)
- Medical Terminology (1 credit or equivalent)

- Statistics (3 credits)
- Basic Emergency Care/First Aid (1 or more credit on academic transcript OR completion proof of training through other mechanism, e.g. Red Cross)
- Psychology (3 credits)
- Physics (3 credits)
- Biology (3 credits)
- Chemistry (4 credits including lab)

Recommended but not required:

- Introduction to Athletic Training
- Research Methods/Scientific Writing

100 observational hours

- At least 50 completed in common athletic training settings

Personal statement

Three Professional References

Current Basic Life Support (BLS) Certification

Undergraduate students outside of UK must demonstrate progression to graduate prior to the beginning of the Professional Program.

Degree Requirements

REQUIREMENTS TO BE ADDED

Each student must be in good standing with the University of Kentucky Graduate School and the Program. The graduation requirements for the University of Kentucky Graduate School include:

- Complete all academic courses (76 credits) with a grade of C or better
- Have a minimum of 3.0 GPA
- Completion of the Final Comprehensive Examination with a 70% or better

Autism Spectrum Disorders Certificate

The College of Education offers a graduate certificate in Autism Spectrum Disorders (ASD). The certificate is a collaborative effort between the department of special education and rehabilitation counseling, and the department of educational, school, and counseling psychology in the College of Education and the Department of Communication Sciences and Disorders in the College of Health Sciences. The primary purpose of this 15-credit hour certificate is to provide special education teachers and related personnel from across the state with advanced credentials that will allow them to implement evidence-based and research-based strategies. The certificate will accomplish the following:

- efficiently and effectively equip professionals to meet federal and state demands for quality
- provide professionals with the knowledge and skills to identify, use, and recommend researchbased practices for students who have ASD, including students from culturally and linguistically diverse backgrounds

- provide personnel with knowledge and skills to work collaboratively with district and schoollevel teams.

The specialized five course ASD graduate certificate program will include competencies in the following areas:

- implementing evidence-based and research-based instruction
- using data from formal and informal assessments to guide instruction, and
- serving as specialists in district and school-wide programs to support students with autism in improving areas of communication, socialization, behavior, and access to the general education curriculum

Baroque Trumpet Certificate

The certificate in Baroque Trumpet will complement existing programs in music education, music performance, and musicology. This new certificate program is needed because, currently, there is no Baroque trumpet component of any of these programs. Students in these programs study modern instruments. Their applied study (MUP 512, 612, 712, etc.) is on modern instruments, they are assessed (in the form of a jury) on their modern instruments, and all instruction is on modern instruments. The Baroque trumpet is an entirely different (and arguably much more difficult) instrument. The Baroque trumpet is an 8-foot long instrument with no valves.

Biochemistry, PhD

Graduate study in the College of Medicine's Department of Molecular & Cellular Biochemistry is designed to prepare candidates for research careers in academics, industry, and government laboratories. Students will have the opportunity to participate in faculty research programs studying a spectrum of topics including: signal transduction, protein structure and function, transcriptional regulation, the cytoskeleton, secretion and vesicular fusion, disease mechanisms (atherosclerosis, cancer, infectious disease, diabetes, Alzheimer's), drug design, nucleic acid dynamics, and membrane biogenesis & function. Students are expected to obtain a well-rounded knowledge of modern biochemistry, participate in graduate seminars, journal clubs, and research seminars; to interact with visiting scholars; and to present the results of their research at local and national meetings. Financial aid is available to all students in the program.

Admission Requirements

Admission to the Ph.D. program in Biochemistry is through the Integrated Biomedical Sciences (IBS) Curriculum (see <https://graduate.med.uky.edu/integrated-biomedical-sciences>).

Information regarding the Ph.D. program in Biochemistry may be obtained at <http://biochemistry.med.uky.edu/>.

Degree Requirements

Requirements to be added.

Biology, MS

The Biology Graduate Program offers Doctor of Philosophy and Masters of Science degrees (thesis and non-thesis) in Biology, but doctoral training is strongly emphasized. Master's training is not a prerequisite for admission into our doctoral program. Applicants are selected for admission based on their overall academic record, GRE scores, letters or recommendation, prior research experience, and on their expressed interest in our graduate program training areas or the research of the Biology Department faculty members.

Training

Graduate students are trained through a combination of formal coursework and research experience. Research training consists of work on a research project under the guidance of one or more of our faculty members. The specific research project is chosen in consultation with the faculty mentor and typically is closely related to the research interests of that lab. A one-credit Biology Graduate Student Orientation seminar course is required for all first-year graduate students admitted into the Biology program. All students must complete a set of common requirements for the Biology Graduate Program, including seminar courses, research, a qualifying exam (for Ph.D. candidates), and an exit exam (thesis defense for Ph.D. and Plan A M.S.). Additional coursework depends on the area of specialization and is determined with input from the faculty mentor and student's advisory committee and the training program. The training programs include Environmental and Evolutionary Biology (EEB), Molecular, Cellular and Developmental Biology (MCDB), and Tailored Training (TT).

Environmental and Evolutionary Biology Training Program

The Environmental and Evolutionary Biology group supports education and research on the interactions between organisms and their environment from an evolutionary perspective. This includes the study of micro- and macro-evolutionary processes; the physiological, developmental, and behavioral adaptations of individual organisms; predator-prey, mutualistic, and competitive interactions; and community and ecosystem relationships. Faculty members conduct research exploring both basic underlying principles and specific applied consequences of ecological interactions. The group's core philosophy is that major advances in understanding how organisms evolve and function in changing ecological systems are achieved in an interactive, interdisciplinary research environment involving diverse conceptual and methodological approaches. Students achieve this through coursework, topical seminars, weekly research seminars, and research projects guided by their major advisor and thesis committee.

Molecular, Cellular and Developmental Biology Training Program

Molecular, Cellular and Developmental Biology (MCDB) training focuses on fundamental cellular and developmental processes such as gene expression, cell proliferation, cell signaling, development, neural function, aging, and behavior. We apply biochemical, genetic, physiological, and molecular techniques to resolve outstanding issues in biology and use a diverse set of experimental organisms (e.g., fungi, cultured cells, and complex animals ranging from the fruit fly to mouse). Entering MCDB students rotate through two different laboratories before selecting a research mentor near the end of the first year of study. Students participate in weekly research and literature seminars and are guided in the selection of other formal course work in order to best prepare for their thesis/dissertation studies. The faculty and students in the MCDB group interact closely with each other, with colleagues elsewhere on our campus, and with scientists worldwide to achieve a stimulating research atmosphere. Our program successfully prepares students for scientific research careers in academic, industrial and governmental settings.

Tailored Training

The Tailored Training program provides great curricular flexibility. The principal difference between Tailored Training and training in the MCDB and EEB programs is that there are no set course requirements, other than the minimum requirements set by the Biology Graduate Program. The mentor and advisory committee work together with the student to customize a curriculum that best suits the needs, interests, and goals of the student. This may be particularly advantageous for students whose primary interests encompass areas outside of or across the other training programs. The curriculum is unique to each student, but not isolating. The student is encouraged to participate in relevant seminars, journal clubs, or other activities attended by students in the MCDB and EEB training programs or in other University graduate training programs. Students admitted through the Tailored Training option enter the Biology Graduate Program directly into the lab of their research mentor. Applicants interested in admission through this mechanism should contact the faculty member with whom they wish to train and also indicate their lab of choice in the Biology application. Faculty members offering Tailored Training will indicate this option on their web pages.

Financial Support

Full financial support is offered to all Ph.D. and Plan A M.S. students accepted for graduate admission; no financial aid application is required. Support may include teaching assistantships and fellowships provided by the university and department, research assistantships offered by faculty mentors, interdisciplinary traineeships and fellowships or extramural research fellowships to individual students.

Admission Requirements

Anyone with a bachelor's degree from an accredited college or university may apply for admission to the Biology Graduate Program at either the MS or Ph.D. levels. Applicants are generally expected to have an undergraduate grade point average of at least 3.0 (out of 4.0), a combined verbal and quantitative Graduate Record Examination score of at least 1100 (old scoring system) or 300 (new scoring system) and, for nonnative English speakers, a TOEFL score of at least 550 on paper-based test or 213 on the computer-based test (CBT) or 79 on internet-based test (IBT). Our GRE institution code is 1837 and Department Code is 0206. We encourage completed applications by January 1 although applications will continue to be reviewed until all positions are filled.

Prerequisite college-level coursework includes one year of physics, two years of chemistry, one semester of calculus, one year of general biology, and upper-level courses providing a working knowledge of contemporary biology. Every student entering the Biology Graduate Program is presented with the Graduate School Bulletin at orientation to familiarize the students with UK Graduate School policy. In addition, each student is provided with a copy of the Rules, Regulations & Policies for the Biology Graduate Program which describes the Departmental rules governing the Biology Graduate Program.

The Biology Graduate Program application is available online. This application and additional information about the Biology Graduate Program can be found at the Program website: <https://bio.as.uky.edu/grad-program> .

Degree Requirements

Requirements to be added.

Biology, PhD

The Biology Graduate Program offers Doctor of Philosophy and Masters of Science degrees (thesis and non-thesis) in Biology, but doctoral training is strongly emphasized. Master's training is not a prerequisite for admission into our doctoral program. Applicants are selected for admission based on their overall academic record, GRE scores, letters or recommendation, prior research experience, and on their expressed interest in our graduate program training areas or the research of the Biology Department faculty members.

Training

Graduate students are trained through a combination of formal coursework and research experience. Research training consists of work on a research project under the guidance of one or more of our faculty members. The specific research project is chosen in consultation with the faculty mentor and typically is closely related to the research interests of that lab. A one-credit Biology Graduate Student Orientation seminar course is required for all first-year graduate students admitted into the Biology program. All students must complete a set of common requirements for the Biology Graduate Program, including seminar courses, research, a qualifying exam (for Ph.D. candidates), and an exit exam (thesis defense for Ph.D. and Plan A M.S.). Additional coursework depends on the area of specialization and is determined with input from the faculty mentor and student's advisory committee and the training program. The training programs include Environmental and Evolutionary Biology (EEB), Molecular, Cellular and Developmental Biology (MCDB), and Tailored Training (TT).

Environmental and Evolutionary Biology Training Program

The Environmental and Evolutionary Biology group supports education and research on the interactions between organisms and their environment from an evolutionary perspective. This includes the study of micro- and macro-evolutionary processes; the physiological, developmental, and behavioral adaptations of individual organisms; predator-prey, mutualistic, and competitive interactions; and community and ecosystem relationships. Faculty members conduct research exploring both basic underlying principles and specific applied consequences of ecological interactions. The group's core philosophy is that major advances in understanding how organisms evolve and function in changing ecological systems are achieved in an interactive, interdisciplinary research environment involving diverse conceptual and methodological approaches. Students achieve this through coursework, topical seminars, weekly research seminars, and research projects guided by their major advisor and thesis committee.

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The Tailored Training program provides great curricular flexibility. The principal difference between Tailored Training and training in the MCDB and EEB programs is that there are no set course requirements, other than the minimum requirements set by the Biology Graduate Program. The mentor and advisory committee work together with the student to customize a curriculum that best suits the needs, interests, and goals of the student. This may be particularly advantageous for students whose primary interests encompass areas outside of or across the other training programs. The curriculum is unique to each student, but not isolating.

The student is encouraged to participate in relevant seminars, journal clubs, or other activities attended by students in the MCDB and EEB training programs or in other University graduate training programs. Students admitted through the Tailored Training option enter the Biology Graduate Program directly into the lab of their research mentor. Applicants interested in admission through this mechanism should contact the faculty member with whom they wish to train and also indicate their lab of choice in the Biology application. Faculty members offering Tailored Training will indicate this option on their web pages.

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Admission Requirements

Anyone with a bachelor's degree from an accredited college or university may apply for admission to the Biology Graduate Program at either the MS or Ph.D. levels. Applicants are generally expected to have an undergraduate grade point average of at least 3.0 (out of 4.0), a combined verbal and quantitative Graduate Record Examination score of at least 1100 (old scoring system) or 300 (new scoring system) and, for nonnative English speakers, a TOEFL score of at least 550 on paper-based test or 213 on the computer-based test (CBT) or 79 on internet-based test (IBT). Our GRE institution code is 1837 and Department Code is 0206. We encourage completed applications by January 1 although applications will continue to be reviewed until all positions are filled.

Prerequisite college-level coursework includes one year of physics, two years of chemistry, one semester of calculus, one year of general biology, and upper-level courses providing a working knowledge of contemporary biology. Every student entering the Biology Graduate Program is presented with the Graduate School Bulletin at orientation to familiarize the students with UK Graduate School policy. In addition, each student is provided with a copy of the Rules, Regulations & Policies for the Biology Graduate Program which describes the Departmental rules governing the Biology Graduate Program.

The Biology Graduate Program application is available online. This application and additional information about the Biology Graduate Program can be found at the Program website: <https://bio.as.uky.edu/grad-program>.

Degree Requirements

Requirements to be added.

Biomedical Engineering, MSBE

The Master of Science (MS) degree offered by the F. Joseph Halcomb III, MD, Department of Biomedical Engineering at the University of Kentucky seeks to provide students with multidisciplinary experience in basic research, design, development, and practice. The program emphasizes the application of engineering principles to problems in medicine and biology. Students receive educational and research opportunities

through the facilities and faculty of the department and its ideal geographic proximity and close ties to other units across the University, ranging from engineering to basic science to clinical departments.

Two options are available:

- MS thesis (Option A): 30 credits of coursework plus a research thesis.
- MS non-thesis (Option B): credits of coursework and a project report.

Admission Requirements

Applicants must meet the general requirements of The Graduate School and are expected to hold a baccalaureate degree from an ABET-accredited engineering program or its equivalent. Applicants with baccalaureates in non-engineering disciplines are considered on a case-by-case basis and may need to take supplementary coursework before official entry into the program; this can be determined by consulting the Director of Graduate Studies (DGS).

Admission to the graduate program normally requires a GPA of at least 3.0 on a 4.0 scale on all graduate and undergraduate work, valid scores on the Graduate Record Examination (GRE), a statement of the applicant's reasons for wanting to pursue graduate education in Biomedical Engineering, and letters of recommendation from three faculty members familiar with the applicant's record. Satisfying the above requirements does not guarantee admission to the program; at the same time, admission decisions are based on a holistic review of the application without regard to minimum grade or score requirements alone. Applications are reviewed by a committee of BME Faculty on a rolling basis.

Degree Requirements

Required coursework includes:

- BME 540 BIOMEDICAL INSTRUMENTATION
- BME 641 BIOMEDICAL SIGNAL PROCESSING I
- BME 609 BIOMEDICAL ENGINEERING ETHICS
- BME 688 BIOMATERIALS SCIENCE AND ENGINEERING
- BME 6xx Biomechanics Elective
- BME xxx Technical Elective
- BME 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE (Plan A)
- BME 772 SEMINAR (taken twice)
- PGY 412G PRINCIPLES OF HUMAN PHYSIOLOGY
- Math Elective
- Technical Elective

MS thesis (Option A):

- A 30-credit core curriculum plus a thesis on original guided research.

MS non-thesis (Option B):

- 31 credit hours of coursework and a project report.

- Enrollment in the non-thesis option must be requested within the first 9 credit hours of graduate course work and approved by the DGS.
- A Clinical Immersion program is offered under Option B, which provides enhanced experiential learning to prepare students for healthcare and related professions with unique competitive advantages.

For further information, contact the DGS at bmedgs@uky.edu or visit <https://www.engr.uky.edu/research-faculty/departments/biomedical-engineering>.

Biomedical Engineering, PhD

The Doctor of Philosophy (PhD) offered by the F. Joseph Halcomb III, MD, Department of Biomedical Engineering at the University of Kentucky is a research degree granted on the basis of broad knowledge of engineering applications in biology and medicine and an in-depth study in a specific area leading to a dissertation reflecting original and independent work by the candidate. Students receive educational and research opportunities through the facilities and faculty of the department and its ideal geographic proximity and close ties to other units across the University, ranging from engineering to basic science to clinical departments.

Admission Requirements

Applicants to the PhD program must meet the requirements of the Graduate School and are generally expected to have an master's degree from an ABET-accredited engineering program or its equivalent. Under special circumstances, exceptional students may bypass the master's and be admitted directly to the PhD program upon approval by the biomedical engineering faculty. Applicants with degrees in non-engineering disciplines are considered on a case-by-case basis. Admission to the program normally requires a GPA of at least 3.0 on a 4.0 scale on all graduate and undergraduate work, valid scores on the Graduate Record Examination (GRE), a statement of the applicant's reasons for wanting to pursue a PhD in Biomedical Engineering, and letters of recommendation from three faculty members familiar with the applicant's record. Satisfying the above requirements does not guarantee admission to the program; at the same time, admission decisions are based on a holistic review of the application without regard to minimum grade or score requirements alone. Applications are reviewed by a committee of BME Faculty on a rolling basis.

Degree Requirements

- Meet the requirements of the Graduate School.
- Successfully complete 36 credits of coursework including PGY 502 (Physiology) and BME 609 (BME Ethics). Courses for advanced study are determined in consultation with an advisory committee and are selected from engineering, physical sciences, mathematics, life sciences, and medicine. 18 credits of coursework can be waived upon request with the approval of the Graduate School if the student possesses a valid Master's degree.
- Pass the Qualifying Examination. This exam, consisting of written and oral components, is designed and administered by the student's Doctoral Advisory Committee.

- Present and satisfactorily defend a dissertation documenting independent and comprehensive scholarship.

For further information, contact the DGS at bmedgs@uky.edu or visit <https://www.engr.uky.edu/research-faculty/departments/biomedical-engineering>

Biostatistics Certificate

The graduate certificate in Biostatistics (GCB) is a 15-credit hour graduate certificate that allows students studying in programs outside the department of biostatistics to learn a basic background in the design and analysis of biomedical studies. The courses included in this certificate will provide students with an introduction to methodological applications in public health and medical research; skills that will be necessary for completing quantitative components of research projects and attractive to future employers.

Biosystems and Agricultural Engineering, MSBAE

The objectives of the Biosystems and Agricultural Engineering graduate program are to develop and strengthen:

1. the ability to plan and conduct research and design involving the application of engineering science to biological and agricultural systems.
2. an understanding of mathematical, physical, and biological sciences that enables critical assessment of scientific literature in these and related fields.
3. the skills required to use precision instruments, techniques and computers in research and design.
4. the ability to make sound engineering and management decisions.
5. the ability to teach college level courses in Biosystems and Agricultural Engineering, particularly at the doctoral level.

Both a Plan A (Thesis) and Plan B (Non-thesis) are available.

Admission Requirements

Admission into the M.S. graduate program of the Biosystems and Agricultural Engineering Department requires the concurrence of the Department Graduate Committee, and the Director of Graduate Studies, and the Department Chair and the availability of an advisor for the student. The Biosystems and Agricultural Engineering Graduate Committee reviews the applicant's three letters of recommendation, resume, statement of professional objective and transcripts with special emphasis given to the science and mathematics area. The department requires a minimum grade point average of 2.8 and a GRE score of at least 1500. An engineering B.S. degree from an ABET-accredited engineering program (or international equivalent) is generally required, however, non-engineering students may be admitted by agreeing to take additional undergraduate courses specified by the graduate committee. Exceptions to these requirements

are considered on a case-by-case basis, taking into account the materials described above as well as GRE scores.

Degree Requirements

Graduate students will combine courses in Biosystems and Agricultural Engineering, other engineering fields, the physical sciences, and the biological sciences to develop a program of study that facilitates these objectives. The advanced degrees, however, are primarily research degrees awarded for significant creative research accomplishment, not for the completion of a specified number of courses. Therefore, the program normally concentrates on a strong thesis or dissertation problem completed under the supervision of the graduate faculty of the department. A design-oriented, non-thesis option is also available for the master's degree.

Plan A minimum requirements: Complete a minimum of 30 hours of graduate courses to include, if desired, no more than 6 credit hours of BAE 768, and submit a Thesis.

Plan B minimum requirements: Complete a minimum of 30 hours of graduate courses.

Biosystems and Agricultural Engineering, PhD

The objectives of the Biosystems and Agricultural Engineering graduate program are to develop and strengthen:

1. the ability to plan and conduct research and design involving the application of engineering science to biological and agricultural systems.
2. an understanding of mathematical, physical, and biological sciences that enables critical assessment of scientific literature in these and related fields.
3. the skills required to use precision instruments, techniques and computers in research and design.
4. the ability to make sound engineering and management decisions.
5. the ability to teach college level courses in Biosystems and Agricultural Engineering, particularly at the doctoral level.

Admission Requirements

Admission into the Ph.D. graduate program of the Biosystems and Agricultural Engineering Department requires the concurrence of the Department Graduate Committee, the Director of Graduate Studies, and the Department Chair, and the availability of an advisor for the student. The Biosystems and Agricultural Engineering Graduate Committee reviews the applicant's previous graduate record, three letters of recommendation, resume, statement of professional objective, and transcripts with special emphasis given to the science and mathematics area. The department requires a minimum grade point average of 3.2 on all previous graduate work for unconditional admission. Exceptions to these requirements are considered on a

case-by-case basis, taking into account the materials described above as well as GRE scores. Ph.D. students are admitted into candidacy after they have successfully completed the Qualifying Exam.

Degree Requirements

Graduate students will combine courses in Biosystems and Agricultural Engineering, other engineering fields, the physical sciences, and the biological sciences to develop a program of study that facilitates these objectives. The advanced degrees, however, are primarily research degrees awarded for significant creative research accomplishment, not for the completion of a specified number of courses. Therefore, the program normally concentrates on a strong dissertation problem completed under the supervision of the graduate faculty of the department. A design-oriented, non-thesis option is also available for the master's degree.

Business Administration, MBA

Gatton's One Year option is an intensive, cross-disciplinary, hands-on experience that will prepare you to be a leader in business and the community. Our curriculum incorporates a number of the core business processes, including marketing, management, and finance; as well as the more technical business courses such as accounting, quantitative analysis, operations management (supply chain), global management, and data analysis. Additionally, you will cover those critical areas that the corporate world values; including leadership, communication and presentation skills, ethics, and strategic thinking. All of this takes place in highly interactive, action-based courses and learning laboratories situated in the corporate setting through Project Connect a built-in internship in which MBA student teams consult with regional companies.

The Professional Evening M.B.A. program is designed for working professionals seeking to improve their business acumen and expand their soft skills. Modeled by the more traditional learning environment, evening students will study with first-rate professors who are leaders in their fields. In as little as two years, a student in the Professional Evening M.B.A. program will graduate with an advanced degree designed to broaden and enhance their skill set in order to be more competitive in the business world.

Options and Concentrations

- **Dual Degrees**

B.S. in Engineering/M.B.A.

<https://gatton.uky.edu/programs/mba/programs/dual-degrees/engineeringmba>

An opportunity to study for an M.B.A. degree while pursuing a Bachelor of Science in Engineering degree is offered to eligible students admitted to the College of Engineering.

J.D./M.B.A.

<https://gatton.uky.edu/programs/mba/programs/dual-degrees/jdmba>

The College of Business and Economics and the College of Law offer the opportunity to obtain the Master of Business Administration(M.B.A.) and Juris Doctor(J.D.) degrees in a dual degree program. Because both schools recognize that some aspects of business and law are compatible and interrelated, students can obtain both degrees in less time than if the degrees were pursued separately. Students interested in the J.D./M.B.A. program must apply to both the College of Law

and the Graduate School. These students may enroll in either the One Year or Professional Evening programs.

M.D./M.B.A.

<https://gatton.uky.edu/programs/mba/programs/dual-degrees/mdmba>

Through an agreement with the College of Medicine, the Gatton College admits eligible students to pursue the M.B.A. degree jointly with the M.D. degree. Students interested in this program must apply to the College of Medicine and to the Graduate School. Students interested in the joint degree will enroll in the MBA program between their second and third year or third and fourth year of Medical School.

Pharm.D./M.B.A.

<https://gatton.uky.edu/programs/mba/programs/dual-degrees/pharmdmba>

Through an agreement with the College of Pharmacy, the Gatton College admits eligible students to pursue the M.B.A. degree jointly with the Pharm.D. degree. Students interested in this program must apply to the College of Pharmacy and to the Graduate School. Students interested in the joint degree will enroll in the Professional Evening program between their first and second year of Pharmacy School.

- **Concentrations**

- **Professional MBA (For Leaders in Healthcare) Concentration**

<https://gatton.uky.edu/programs/mba/programs/professional-mba-leaders-healthcare>

- **Entrepreneurship and New venture Creation Concentration**

<https://gatton.uky.edu/programs/mba/programs/one-year-mba/entrepreneurship-and-new-venture-creation-concentration>

Admission Requirements

- Application for Admission Students who wish to apply for admission to the M.B.A. program in the Gatton College of Business and Economics should submit an online application to the Graduate School.
- Prerequisites for the M.B.A. program include undergraduate accounting and economic courses. These prerequisites can be satisfied as listed below. Prerequisites may be satisfied by:
 1. Passing the required courses (ACC201 and ACC202, ECO201 and ECO202) at the University of Kentucky
 2. Passing the similar courses at another accredited university, including KCTCS
 3. Passing college-level proficiency (CLEP) examinations
 4. Any approved economics and accounting equivalent preparation that is approved by the MBA program.

In addition to satisfying required course prerequisites, applicants must also meet the Graduate School requirements, <https://gradschool.uky.edu/admissions>. Meeting the minimum Graduate School requirements does not guarantee admission to the MBA program. While submission of the GRE/GMAT is required, interested candidates for all MBA program may request a review of a potential test waiver from the MBA Admission Committee, <https://gatton.uky.edu/programs/mba/admissions/gmatgre-waiver-policy>.

Degree Requirements

- **One Year MBA Program:** 51 credit hours

DIS 651 QUANTITATIVE ANALYSIS IN BUSINESS DECISION MAKING (3)

ECO 610 MANAGERIAL ECONOMICS (3)

MGT 697 LEADERSHIP, COMMUNICATIONS & ETHICS (3)

MBA 630 PROFESSIONAL DEVELOPMENT (1)

MBA 640 PROJECT CONNECT I (4)

ACC 628 FINANCIAL/MANAGERIAL ACCOUNTING (3)

MKT 600 MARKETING MANAGEMENT (3)

MGT 610 GLOBAL MANAGEMENT (3)

FIN 600 CORPORATE FINANCIAL POLICY (3)

MBA 642 PROJECT CONNECT II (4)

MBA 615 SUPPLY CHAIN STRATEGY (3)

MGT 611 MANAGING EFFECTIVE ORGANIZATIONS (3)

MGT 699 BUSINESS POLICY AND STRATEGY II (Capstone) (3)

Electives* (12)

*A 600-level courses approved by the Director of Graduate Studies

- **Professional Evening MBA Program:** 36 credit hours

Professional Evening MBA Program - 2- or 3-Year Part-time Program

ACC 628 FINANCIAL/MANAGERIAL ACCOUNTING (3)

ECO 610 MANAGERIAL ECONOMICS (3)

MGT 611 MANAGING EFFECTIVE ORGANIZATIONS (3)

FIN 600 CORPORATE FINANCIAL POLICY (3)

DIS 651 QUANTITATIVE ANALYSIS IN BUSINESS DECISION MAKING (3)

MKT 600 MARKETING MANAGEMENT (3)

MBA 615 SUPPLY CHAIN STRATEGY (3)

MGT 610 GLOBAL MANAGEMENT (3) *

MGT 699 BUSINESS POLICY AND STRATEGY II (3)

Electives** (9)

*CPH 600 Health Services and Systems Organizations is used for the Professional MBA (For Leaders in Healthcare) Concentration. For the Entrepreneurship Concentration, MGT 610 is taken out and replaced with one of the entrepreneurship elective classes.

**Any 600-level courses approved by the Director of Graduate Studies Students are required to have a minimum B grade average to graduate. Students receiving two grades of C or one grade of E may be subject to dismissal from the M.B.A. program.

<https://gatton.uky.edu/programs/mba>

Business Administration, PhD

The mission of the doctoral program is to prepare students for successful academic careers at institutions of higher learning within the USA and internationally. To accomplish this mission, the program prepares graduates to comprehend and evaluate research, to perform research which advances knowledge and to provide effective instruction, all within a business-related discipline and in a supportive collegial environment. Specifically, the program is designed to provide:

- An academic understanding of the philosophies and basic methodological issues of academic inquiry
- An understanding of the theoretical state-of-the-art research methods in a specific discipline
- The ability to design and execute substantive research projects
- The ability to communicate research findings to diverse audiences.

Research Interests/Programs - Accounting; Finance & Quantitative Methods; Management; Marketing

Admission Requirements

- GMAT - Minimum 600 or GRE minimum 310
- Copies of transcripts from all higher education institutions attended and self-reported cumulative GPAs for each institution. All previous graduate credits must show a minimum grade point average 3.2 out of 4.0.

- TOEFL - (International students) minimum 550 (paper-based), 213 (computer based) or 79 (internet-based) or for the IELTS a minimum mean band score of 6.5 is required. Note: Permanent residents, graduating from US institution or schools outside the US in English-speaking countries such as Australia, Great Britain and English-speaking Canadian provinces, are not required to take the TOEFL.

Degree Requirements

Minimum requirements for the doctoral degree are 40 hours of graduate level coursework and successful completion of the Qualifying Examination followed by registration for a minimum of two consecutive semesters for dissertation residence credit and a successful defense of the dissertation. Registration for dissertation residence credit is required until the dissertation is defended and the degree awarded.

Core Requirements

- 3 credit hours in research methodology
- 6 credit hours in theoretical foundations
- 9 credit hours in research tools (including statistics)
- 1 credit hour in techniques for business education

Total credit hours in the core 19

Major Field Requirements

The major field consists of at least 21 hours of graduate credit course work including at least 12 credit hours of 700 level courses exclusive of the core. Currently available major fields include:

- Accounting
- Finance and Quantitative Methods
- Management
- Marketing and Supply Chain

All course work must be approved by the Director of Graduate Studies. Written and oral comprehensive examinations are required in the major field.

Post Qualifying Examination Requirements

- A dissertation based on original research on a significant topic is required. The dissertation is defended in an oral examination.
- 2 consecutive semesters (4 credit hours minimum) of dissertation research residence credit.

Maintenance of Good Standing

- A minimum average grade of B for graduate credit in all courses after being admitted to the Graduate School must be maintained.
- Doctoral students obtaining two grades of C are subject to dismissal from the program regardless of the number of offsetting A's.
- Doctoral students obtaining an E grade are subject to dismissal from the program.
- A student failing the Qualifying Exam is subject to dismissal.
- A student may be dismissed from the program after successfully passing the Qualifying Examination if in the judgment of the student's Advisory Committee he/she is not making satisfactory progress toward the completion of a dissertation.

Gatton Business Administration PhD Program

Chemical Engineering, MSCHE

The Department of Chemical and Materials Engineering offers programs leading to the M.S. and Ph.D. degrees in Chemical Engineering, with research specialization in the following areas:

- Biomaterials
- Drug Delivery
- Energy and Batteries
- Environmental Engineering
- Interfacial Engineering
- Materials Synthesis and Nanomaterials
- Membranes/Advanced Separations
- Molecular Dynamics
- Nanomaterials
- Polymer Science and Engineering
- Process Design
- Water Treatment

Admission Requirements

Admission to the M.S. and Ph.D. degree programs is on a competitive basis, and financial assistance is available through teaching and research assistantships, as well as a limited number of fellowships. Applicants should have a minimum grade point average of 3.0/4.0 on all undergraduate work, and should hold a Bachelor of Science degree in Chemical Engineering or its equivalent. Meeting the minimum requirements does not guarantee admission, as acceptance is on a competitive and space-available basis. Students with undergraduate majors not in chemical engineering (for example, chemistry or physics) may be eligible for direct admission into the M.S. or Ph.D. graduate programs; these individuals are expected to complete a program of selected undergraduate core courses during their first year of study.

Degree Requirements

The M.S. degree in Chemical Engineering requires 24 hours of course work, plus six credits of thesis research and completion of an acceptable thesis (Plan A). This course work includes the chemical engineering graduate core, which is comprised of CME 505, CME 620, CME 630, CME 650, and a graduate-level mathematics elective. In certain exceptional cases (as determined by the faculty), a non-thesis M.S. may be undertaken (Plan B). The non-thesis option requires 30 hours of course work which includes the chemical engineering core, as well as 3 hours of CME 780 SPECIAL PROBLEMS IN CHEMICAL ENGINEERING. The non-thesis option is only available to those students with prior research or industrial experience. For both Plan A and Plan B, at least half of all graduate course work must be at the 600 level or above.

Chemical Engineering, PhD

The Department of Chemical and Materials Engineering offers programs leading to the M.S. and Ph.D. degrees in Chemical Engineering, with research specialization in the following areas:

- Biomaterials
- Drug Delivery
- Energy and Batteries
- Environmental Engineering
- Interfacial Engineering
- Materials Synthesis and Nanomaterials
- Membranes/Advanced Separations
- Molecular Dynamics
- Nanomaterials
- Polymer Science and Engineering
- Process Design
- Water Treatment

Admission Requirements

Admission to the M.S. and Ph.D. degree programs is on a competitive basis, and financial assistance is available through teaching and research assistantships, as well as a limited number of fellowships. Applicants should have a minimum grade point average of 3.0/4.0 on all undergraduate work and should hold a Bachelor of Science degree in Chemical Engineering or its equivalent. Meeting the minimum requirements does not guarantee admission, as acceptance is on a competitive and space-available basis. Students with undergraduate majors not in chemical engineering (for example, chemistry or physics) may be eligible for direct admission into the M.S. or Ph.D. graduate programs; these individuals are expected to complete a program of selected undergraduate core courses during their first year of study.

Degree Requirements

The Ph.D. degree is a research degree granted on the basis of broad knowledge of chemical engineering and specialized study in a specific area of interest. The student must conduct original and significant research and must submit and defend a dissertation based on that research. Course work requirements include the chemical engineering graduate core, and additional courses so as to fulfill the pre-candidacy residency requirements set forth by the Graduate School; the plan of study is developed by the student in consultation with the research advisor and the Director of Graduate Studies. Advancement to doctoral candidacy is contingent upon successful completion of both the written and oral portions of the Qualifying Examination. The written portion addresses three fundamental areas of the chemical engineering discipline: Kinetics and Reactor Design, Thermodynamics, and Transport. The oral portion consists of a presentation and defense of the student's proposed dissertation research; a prospectus prepared by the student must be submitted to the doctoral advisory committee prior to the examination. There is no language requirement for the M.S. or Ph.D. degrees in Chemical Engineering.

A wide selection of research topics is available under the direction of the Chemical Engineering faculty. Recent graduate-level elective courses include Biochemical Engineering, Biomedical Micro & Nanotechnology, Computational Materials Science, Drug Delivery, Energy Systems, Interfacial Engineering, Membrane Science and Technology, and Polymer Processing.

For more information, please contact the Director of Graduate Studies.

Chemistry, MS

The Department of Chemistry at the University of Kentucky offers two graduate degrees-the MS and the PhD (doctoral) degree. In the MS degree program, the student has the option of pursuing the MS Plan A, which involves research and a thesis, or the MS Plan B, a non-thesis or coursework-only option. A Master's degree is not a prerequisite for the PhD degree.

Admission Requirements

Four years of chemistry covering the areas of general, organic, physical, and analytical constitute the normal minimum requirement for pursuing graduate work within this Department. Additional prerequisite undergraduate work includes one year of college physics, mathematics through calculus, and training in

some foreign language. In special cases, exceptions to these rules may be made by the Director of Graduate Studies and the Graduate Program Committee. An undergraduate grade point average of at least 3.0 (based on a 4-point system) normally shall be required for admission as a graduate student in the Department of Chemistry. The Graduate Program Committee shall, however, be authorized to admit students with averages as low as 2.75, based on such evidence of ability as high GRE scores, recommendations, or excellent preparation. No students with undergraduate averages below 2.5 will be admitted. Graduate Students who lack specified prerequisites, or are found to be deficient in the Proficiency Examinations given during the orientation program, may make up their deficiencies by registering in and successfully completing the appropriate (usually undergraduate) courses.

Degree Requirements

Course work for the MS shall include four core courses, one from each of four of the five areas of chemistry: analytical, biological, inorganic, organic and physical. Students who entered the program prior to the Fall 2014 semester must select one course from each of the two areas where the lowest proficiency examination scores were obtained. The following (three-credit) courses are officially "core" in each area: CHE 626 (Fall Analytical), CHE 623 (Spring Analytical); CHE 550 (Fall Biological), CHE 552 (Spring Biological); CHE 510 (Fall Inorganic), CHE 514 (Spring Inorganic); CHE 538 (Fall Organic), CHE 535 (Spring Organic); CHE 547 (Fall Physical), CHE 548 (Spring Physical). Students will not be making satisfactory progress unless they have completed at least 12 hours of course work other than research and seminar by the end of the first year and 24 hours of course work by the end of the second year. In addition, any time a student's GPA falls below a 3.0, this is automatically considered to be unsatisfactory performance. Students who are not making satisfactory progress after three semesters will be ineligible to serve as teaching assistants and may be terminated in the graduate program.

MS-A (Master's Thesis Plan): A minimum of 30 graduate credit hours, 15 of which must be at the 600- or 700-level (Graduate School requirement). The advisory committee may require additional courses.

MS-B (Master's Coursework Plan): A minimum of 30 graduate credit hours, 15 of which must be at the 600- or 700-level (Graduate School requirement). The advisory committee may require additional courses. Of these 15 advanced credit hours, the Council on Postsecondary Education currently requires that 12 credit hours be in Chemistry (CHE) courses.

Please see the Department of Chemistry Graduate Program Handbook for more information related to the Graduate Program.

Please visit the Department of Chemistry website for more resources and information.

Chemistry, PhD

The Department of Chemistry at the University of Kentucky offers two graduate degrees—the MS and the PhD (doctoral) degree. In the MS degree program, the student has the option of pursuing the MS Plan A, which involves research and a thesis, or the MS Plan B, a non-thesis or coursework-only option. A Master's degree is not a prerequisite for the PhD degree.

Admission Requirements

Four years of chemistry covering the areas of general, organic, physical, and analytical constitute the normal minimum requirement for pursuing graduate work within this Department. Additional prerequisite undergraduate work includes one year of college physics, mathematics through calculus, and training in some foreign language. In special cases, exceptions to these rules may be made by the Director of Graduate Studies and the Graduate Program Committee. An undergraduate grade point average of at least 3.0 (based on a 4-point system) normally shall be required for admission as a graduate student in the Department of Chemistry. The Graduate Program Committee shall, however, be authorized to admit students with averages as low as 2.75, based on such evidence of ability as high GRE scores, recommendations, or excellent preparation. No students with undergraduate averages below 2.5 will be admitted. Graduate Students who lack specified prerequisites, or are found to be deficient in the Proficiency Examinations given during the orientation program, may make up their deficiencies by registering in and successfully completing the appropriate (usually undergraduate) courses.

Degree Requirements

Course work for the PhD shall include four core courses, one from each of four of the five areas of chemistry: analytical, biological, inorganic, organic and physical. Students who entered the program prior to the Fall 2014 semester must select one course from each of the two areas where the lowest proficiency examination scores were obtained. The following (three-credit) courses are officially "core" in each area: CHE 626 (Fall Analytical), CHE 623 (Spring Analytical); CHE 550 (Fall Biological), CHE 552 (Spring Biological); CHE 510 (Fall Inorganic), CHE 514 (Spring Inorganic); CHE 538 (Fall Organic), CHE 535 (Spring Organic); CHE 547 (Fall Physical), CHE 548 (Spring Physical). Students will not be making satisfactory progress unless they have completed at least 12 hours of course work other than research and seminar by the end of the first year and 24 hours of course work by the end of the second year. In addition, any time a student's GPA falls below a 3.0, this is automatically considered to be unsatisfactory performance. Students who are not making satisfactory progress after three semesters will be ineligible to serve as teaching assistants and may be terminated in the graduate program.

A minimum of 8 credits of graduate-level (500-level or above) Chemistry courses in addition to the required core courses. They shall be "regular" courses (that is, seminar, colloquium, practicum, independent study, and research course are excluded); they should generally be in the student's area of study. The second core course of a pair, if taken, can be considered an advanced or specialty course. A minimum of 3 credits of course work outside of the Department of Chemistry. These credits need not be in graduate-level courses, but must be approved by the advisory committee. Alternatively, these credits can be in graduate-level courses in the Department of Chemistry, selected in an area outside the student's area of concentration.

Please see the Department of Chemistry Graduate Program Handbook for more information related to the Graduate Program.

Please visit the Department of Chemistry website for more resources and information.

Child Welfare Practice Certificate

The Child Welfare Practice graduate certificate is a specialization that prepares students for advanced practice with children and families who experience abuse and neglect. Both public and private child welfare settings will be examined with special emphasis on improving outcomes for these children and families. The certificate course work focuses on the complex factors that contribute to maltreatment and neglect, and emphasizes intervention strategies including evidence-based practices and process models. This is a post-baccalaureate certificate, so students do not need to be enrolled in a graduate program to apply.

Civil Engineering, MSCIE

The Department of Civil Engineering has many well-equipped laboratories with active research programs in most areas. The research programs provide financial assistance for graduate students. In addition, financial assistance is available through teaching assistantships, fellowships, and scholarships. Information about the graduate program in Civil Engineering can be obtained by writing the Director of Graduate Studies, Department of Civil Engineering

Admission Requirements

In addition to satisfying general Graduate School and College of Engineering admissions requirements (a GPA of 2.8/4.0 on all undergraduate work is normally required), applicants for admission to the M.S.C.E., and Ph.D. degree programs in Civil Engineering must have been awarded a Bachelor of Science degree from an engineering program accredited by the Accrediting Board for Engineering and Technology (ABET). This requirement may be waived for applicants who have been awarded bachelor's degrees other than in engineering or from unaccredited engineering programs (including those offered by foreign institutions) if the applicant has received an acceptable score on the Graduate Record Examination (GRE).

Students with undergraduate majors not in engineering must also take a certain number of undergraduate remedial courses. Neither the M.S.C.E. degree nor the Ph.D. degree in Civil Engineering will be conferred unless the candidates have successfully completed, during their undergraduate and/or graduate careers, at least one basic course in at least four of the following seven areas: civil engineering materials, construction engineering and management, environmental engineering, geotechnical engineering, hydraulics and water resources engineering, structural engineering, and transportation engineering.

Another admission requirement is a minimum combined verbal and quantitative scores of GRE as follows: 1000 (300: New GRE), and 1100 (330: New GRE) for Master's and Ph.D. degree applicants, respectively. Scores on the analytical portion are not considered. Foreign applicants whose native language is other than English must take the Test of English as a Foreign Language (TOEFL) and score at least 550 (Computer Based TOEFL: 213, iBT TOEFL: 80).

Degree Requirements

For the Master of Science in Civil Engineering (M.S.C.E.) degree Plan A, 30 credit hours of course work, which can include zero to six credits of CE 768, and a thesis are required to fulfill degree requirements. For the Master of Science in Civil Engineering (M.S.C.E.) degree Plan B, a minimum of 30 credit hours of

graduate work are required, including at least 3 credit hours of independent work. The requirement for independent work may be satisfied by either taking an approved curriculum of courses which contain integral independent study components totaling a minimum of 3 credit hours, or by completing at least three credit hours of CE 790 and/or CE 791.

Students who wish to complete the independent work requirement by choosing from an approved curriculum of courses containing integral independent study components, shall present a plan of study which satisfies this requirement, and all other Graduate School requirements, to the Director of Graduate Studies for approval before the completion of 12 credit hours of graduate course work. Preferably this should occur no later than the end of the first semester of graduate residence. The requirement for all independent work must be satisfied under the direction of one faculty member (for students choosing a CE 790 and/or CE 791), or several faculty members (for students following an approved curriculum of courses), who will assign, monitor, and evaluate the student's work as part of the specific course. Written reports will usually represent the work product to be evaluated.

All students must pass a Final Examination as specified by the rules of the Graduate School. The contents and style of the examination, and the evaluation of the student's performance, are the responsibility of a Graduate Faculty committee appointed by the Dean of the Graduate School.

There is no language requirement for the M.S.C.E. degree in Civil Engineering.

Civil Engineering, PhD

The Department of Civil Engineering offers the Ph.D. with specialization in the following areas:

- Civil Engineering Materials
- Construction Engineering and Management
- Environmental Engineering
- Geotechnical Engineering
- Hydraulics Engineering
- Structural Engineering
- Transportation Engineering
- Water Resources Engineering

These areas utilize courses from other departments and such inter-departmental programs are encouraged. Mechanical Engineering, Chemical Engineering, Agricultural Engineering, Mining Engineering, Mathematics, Computer Science, Geology, Biology, and Chemistry are some of the departments whose offerings contribute to the programs in Civil Engineering.

The Department of Civil Engineering has many well-equipped laboratories with active research programs in most areas. The research programs provide financial assistance for graduate students. In addition, financial assistance is available through teaching assistantships, fellowships, and scholarships. Information about the graduate program in Civil Engineering can be obtained by writing the Director of Graduate Studies, Department of Civil Engineering

Admission Requirements

In addition to satisfying general Graduate School and College of Engineering admissions requirements (a GPA of 2.8/4.0 on all undergraduate work is normally required), applicants for admission to the M.S.C.E., and Ph.D. degree programs in Civil Engineering must have been awarded a Bachelor of Science degree from an engineering program accredited by the Accrediting Board for Engineering and Technology (ABET). This requirement may be waived for applicants who have been awarded bachelor's degrees other than in engineering or from unaccredited engineering programs (including those offered by foreign institutions) if the applicant has received an acceptable score on the Graduate Record Examination (GRE).

Students with undergraduate majors not in engineering must also take a certain number of undergraduate remedial courses. Neither the M.S.C.E. degree nor the Ph.D. degree in Civil Engineering will be conferred unless the candidates have successfully completed, during their undergraduate and/or graduate careers, at least one basic course in at least four of the following seven areas: civil engineering materials, construction engineering and management, environmental engineering, geotechnical engineering, hydraulics and water resources engineering, structural engineering, and transportation engineering.

Another admission requirement is a minimum combined verbal and quantitative scores of GRE as follows: 1000 (300: New GRE), and 1100 (330: New GRE) for Master's and Ph.D. degree applicants, respectively. Scores on the analytical portion are not considered. Foreign applicants whose native language is other than English must take the Test of English as a Foreign Language (TOEFL) and score at least 550 (Computer Based TOEFL: 213, iBT TOEFL: 80).

Degree Requirements

The Ph.D. degree has no formal course requirement, but students must pass the Qualifying Examination before entering candidacy. There is no language requirement for the Ph.D. degree in Civil Engineering.

Classics, MA

The M.A. program in Classics in the Department of Modern and Classical Languages, Literatures, and Cultures offers a degree with courses in Greek and Latin languages, literatures and cultures, as well as allied offerings in ancient and medieval history, ancient and medieval philosophy, archaeology, and Greek and Roman art. The mission of the M.A. Program is to train classicists who would become Latin teachers, or who, having obtained a solid knowledge of the classical languages, would pursue a Ph.D. degree in Classics, History, Philosophy, Divinity, or other related fields.

Greek studies in the M.A. Program have benefitted from in-depth exposure to Homeric Epic, and now offer close contact with faculty who specialize in Hellenistic Greek. A distinctive feature of the program is the study the Latin patrimony from antiquity until modern times. The Neo-Latin patrimony, in particular, immensely vast, multicultural and interdisciplinary in its very nature, provides infinite opportunities for study and research of the classical tradition in many fields and pertaining to many regions and populations. Also, students approach Latin as a living language of teaching, scholarly work, and communication (with the classical authors and among themselves). This fosters a personal connection to the language and is invaluable preparation for the classroom.

Options

- Option A-thesis requires completion of 30 semester credit hours of graduate work, six of which in CLA 768 (Residence Credit for Master's Degree), the defense of a Master's thesis, and an exit exam.
- Option B-non-thesis requires completion of 30 semester credit hours of graduate work and an exit exam.

Admission Requirements

The requirements for admission to the program in Classics are (a) an undergraduate grade point average of 3.0 or above on a 4.0 scale, (b) competence in one of the classical languages (Latin or Greek) and at least basic competence in the other, and (c) a combined score of 297 (new scoring) / 1000 (old scoring) on any two of the three parts of the Graduate Record Examination (GRE). The Director of Graduate Studies may admit students with lower GRE scores or an undergraduate grade point average below 3.0 if, on the basis of a student's last two years of work, Classics grades, or general academic competence. An undergraduate major in Classics, Latin, or Greek is not required for admission, but the Program suggests that entering students should have completed at least six semesters of either Latin or Greek and four semesters of the other language. Students lacking sufficient preparation in one of the classical languages may be required to remedy such deficiencies by taking undergraduate courses.

The following documents should be submitted to the Graduate School's online application system by February 1, if the applicant is seeking financial aid, or before April 30 otherwise:

1. A one-page statement describing the applicant's reasons for seeking a Master's degree. If an applicant wants to be considered for financial aid, this is to be indicated in the opening sentence of the personal statement.
2. A list of Latin and Greek works read with approximate number of lines.
3. Transcripts.
4. GRE scores.
5. Three letters of reference (normally from former teachers).

Degree Requirements

1. The student must have a GPA of 3.0 or higher on a 4.0 scale for all graduate work.
2. The student must earn at least half of the semester credit hours in graduate courses numbered 600 or above.
3. The student must take at least two-thirds of her/his semester credit hours in regularly scheduled courses and seminars.
4. The student must take at least two-thirds of her/his semester credit hours in Classics.
5. A student's schedule of courses for each registration period, including any changes, must be approved by the DGS to be acceptable toward the fulfillment of degree requirements.
6. Latin prose composition, CLA 501, is required of all M.A. students.
7. A student must earn a minimum of nine credit hours in graduate courses in each of the classical languages and an additional six credit hours in graduate courses in either Greek or Latin or a combination of the two. When special circumstances arise, the DGS has the authority to revise this requirement.
8. All students must pass an exit exam before receiving the MA degree.
9. The student may transfer up to nine hours from a graduate program at another university or from post-baccalaureate graduate work at UK.
10. The student must have taken all course work within eight years of the semester in which the degree is awarded.

M.A. in Classics (track Latin) as a concurrent degree with M.A. in Teaching World Languages (MATWL)

Degree requirements: same as described as above, except for 7. Instead, students pursuing this track are required to take at least 8 graduate courses in Latin (24 credit hours). There is an exit requirement of a minimum of 4 semesters of Greek or equivalent (beginners and intermediate level).

<https://mcl.as.uky.edu/ma-classics>

Clinical and Translational Science Certificate

The graduate certificate in Clinical and Translation Science will serve as the entry point for graduatelevel training in clinical and translation science. The curriculum is designed to establish knowledgebased and skill-based competencies in communication, professionalism, critical thinking and synthesis of knowledge, planning, management and assessment and leadership in five areas; CTS methods and technologies, scientific knowledge, measurement and statistics, research integrity and collaboration and team building. The certificate will be available to:

- faculty members at the University of Kentucky who are planning to participate in clinical and translational research but lack previous training and the skills necessary for clinical and translational research
- professionals in postgraduate training at UK, including residents and fellows in the college of medicine, college of pharmacy and college of dentistry
- graduate students in health-related PhD and MS programs
- project managers and other staff members interested in contributing to clinical and translation science
- professionals practicing in the community

Clinical and Translational Science, PhD

The Department of Behavioral Science in the College of Medicine, in affiliation with the University of Kentucky Center for Clinical and Translational Science, offers a Ph.D. program in Clinical and Translational Science (CTS). The academic discipline focuses on acceleration of the translation of basic science advances to tangible improvements in public health. This interdisciplinary program is designed to expand research career opportunities for exceptional professionals with terminal professional health care degrees (e.g., physicians, nurses, dentists, pharmacists, public health professionals). Students enrolled in the MD/PhD Program are also eligible for admission.

The primary emphasis of the program is mentored research training to permit scholars to create well-reasoned original research contributions to the discovery of clinical health knowledge and its application. An interdisciplinary PhD Advisory Committee will play a prominent role in coordinating the individualized curriculum, research training and career development of the scholars in the program, based on scholar interest and background. A major professor (i.e., primary mentor), with the support of the Advisory Committee, will oversee research training and career development. A minimum of one faculty member in the Department of Behavioral Science who is a full member of the graduate faculty will serve as a primary or co-mentor. Other members of the Advisory Committee will be selected based on their abilities to support elements of the interdisciplinary research interests and career trajectories of the scholar, regardless of departmental affiliation.

Admission Requirements

Admission to the program is generally limited to 1) applicants with terminal health professional degrees with appropriate domestic licensure to practice and 2) students in the MD/PhD Program. Other students may apply to the program with consent of the Director of Graduate Studies.

Admission to the PhD in CTS program is through the Department of Behavioral Science. Inquiries about the Ph.D. program should be directed to the Director of Graduate Studies, Department of Behavioral Science.

Additional information may also be obtained from the Department of Behavioral Science website: <http://behavioralscience.med.uky.edu>

Degree Requirements

Scholars with a terminal health professional degree (or enrolled in the MD/PhD Program) are required to complete 18 credit hours of coursework to establish pre-qualifying residency status. This coursework typically consists of core competency-based courses in clinical and translational science (typically 13 credit hours) and tailored coursework developed in consultation with the major professor and advisory committee (minimum of 5 credit hours). The tailored portion of the curriculum will be designed to provide training needed for the scholar to lead interdisciplinary CTS research teams and/or sustain independent research programs that promote innovation and new discovery.

Core Curriculum

- BSC 731 METHODS AND TECHNOLOGIES IN CLINICAL AND TRANSLATIONAL SCIENCE (3)
- BSC 732 INTERDISCIPLINARY PROTOCOL DEVELOPMENT (3)
- BSC 733 SEMINAR IN CLINICAL AND TRANSLATIONAL SCIENCE (1-3)
- BSC 534 ETHICS AND RESPONSIBILITY IN CLINICAL RESEARCH (3)
- BSC 625 FUNDAMENTALS OF BIostatISTICS FOR CLINICAL AND TRANSLATIONAL SCIENCE (3)
- BSC 790 RESEARCH IN MEDICAL BEHAVIORAL SCIENCE (1-6)

Additional credit hours selected from graduate courses offered by health sciences colleges or related disciplines.

Program website: <https://behavioralscience.med.uky.edu/bscience-graduate-education>

Clinical Social Work Certificate

The Clinical Social Work graduate certificate prepares students for advanced practice in clinical social work. The certificate is designed to move students from the broader foundation of generalist social work practice to an advanced level of clinical knowledge and skills including application of social work practice in a variety of clinical settings. This certificate in Clinical Social Work examines psychopathology, assessment and evidence-informed treatment strategies and will provide an educational foundation to help prepare practitioners who seek clinical social work positions.

College Teaching and Learning Certificate

The graduate certificate in College Teaching and Learning provides a coherent, integrated approach to helping graduate students, postdoctoral scholars, current faculty, and others develop and document the skills needed as part of conscientious preparation for the full range of faculty responsibilities at a range of institutions of higher education.

College, Career, and Civic Life Teaching and Learning Certificate

The graduate certificate in College, Career, and Civic Life Teaching and Learning provides a coherent, integrated approach to helping graduate students, postdoctoral scholars, current faculty, and others develop and document the skills needed as part of conscientious preparation for the full range of faculty responsibilities at a range of institutions of higher education.

Communication Sciences and Disorders, MSCSD

The Master of Science in Communication Sciences and Disorders is designed for students seeking entry-level professional preparation in speech-language pathology. Any student without an undergraduate major or equivalent in Communication Sciences and Disorders should apply as a prerequisite student to complete the prerequisite course work. The curriculum incorporates course work and intensive clinical practicum experiences designed to prepare students to meet state licensure and national certification requirements.

The Master of Science (M.S.) education program in speech-language pathology at the University of Kentucky is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association, 2200 Research Boulevard, #310, Rockville, MD 20850, 800-498-2017 or 301-296-5700.

Admission Requirements

Bachelor's degree with a minimum GPA of 3.0 out of a possible 4.0.

Degree Requirements

Core coursework (credit hours):

- CSD 621 AUGMENTATIVE AND ALTERNATIVE COMMUNICATION (2)
- CSD 647 LANGUAGE DISORDERS IN DEVELOPMENTALLY YOUNG INDIVIDUALS (3)
- CSD 648 LANGUAGE DISORDERS IN SCHOOL-AGE POPULATIONS (3)
- CSD 661 PHONOLOGICAL DEVELOPMENT AND DISORDERS (3)
- CSD 670 VOICE DISORDERS (2)
- *CSD 675 LOW INCIDENCE COM DISORDERS: SR (Subtitle required) (3)
- CSD 677 APHASIA AND RELATED DISORDERS (3)
- CSD 701 RESEARCH METHODS IN COMMUNICATION DISORDERS (3)

- CSD 710 COGNITIVE COMMUNICATION DISORDERS (2)
- *CSD 720 PROFESSIONAL ISSUES IN SPEECH LANGUAGE PATHOLOGY (3)
- CSD 744 ADULT SWALLOWING DISORDERS (3)
- CSD 745 PEDIATRIC FEEDING (2)
- CSD 746 MOTOR SPEECH DISORDERS (2)
- **Total Credit Hours - 34**

* CSD 675 and CSD 720 can be repeated three times

Coursework includes 34 didactic hours plus comprehensive examinations or an optional thesis.

Graduate students completing the thesis option also complete the following:

- CSD 748 MASTER'S THESIS RESEARCH (0)
- CSD 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE (1 - 6)

Graduate students wishing to meet American Speech-Language-Hearing Association certification requirements must also complete the following additional clinical orientation, clinical practicum, and clinical rotation experiences, plus 2 hours of graduate-level electives.

- CSD 654 CLINICAL ORIENTATION IN COMMUNICATION DISORDERS (3)
- CSD 657 CLINICAL PRACTICUM IN SPEECH-LANGUAGE PATHOLOGY (6)
- CSD 659 CLINICAL ROTATION IN SPEECH-LANGUAGE PATHOLOGY (21 - 30)
- **CSD 788 VARIABLE TOPICS IN COMMUNICATION DISORDERS: (SR) or Graduate credit elective (2)

**Graduate students are required to take two credits of CSD 788 Variable Topics as elective courses or any other related graduate level elective. Elective courses are offered on a rotating basis.

www.uky.edu/chs/communication-sciences-and-disorders

Communication, MA

The College of Communications and Information offers programs leading to the Master of Arts (either Plan A or Plan B) and Doctor of Philosophy degrees in Communication. The program offers special opportunities for students to apply communication theory and research across many contexts. Students may develop a program of study emphasizing (or combining) research areas such as health communication, information studies, instructional communication, media and mass communication, risk and crisis communication as well as strategic and organizational communication. The program is designed to serve the needs of students whose goals may include teaching and academic research, professional research, or communication careers in the media or other organizations.

Students pursuing work in health communication are encouraged to develop interdisciplinary programs involving the Department of Behavioral Science, the College of Medicine, as well as the Colleges of Dentistry, Health Sciences, Pharmacy, and Nursing. Communication also participates in interdisciplinary research programs with the Center for Prevention Research, the Sanders-Brown Center for Aging, and a variety of other health-related departments and institutes.

Admission Requirements

Students with an undergraduate degree from a fully accredited institution of higher learning and a grade point average of 3.0 on a 4.0 scale are admissible to the graduate program. Only students who have previously completed a master's degree may apply for admission into the doctoral program. Master's degree applicants are expected to have had at least twelve hours of appropriate undergraduate work in communication. Students with degrees in areas not directly related to communication are encouraged to apply, but they may be required to take course work without graduate credit. Should the Admissions Committee feel there is a deficiency in the applicant's studies, it may require enrollment in specific undergraduate courses. Courses taken to remove a deficiency cannot be counted towards the master's degree. In some cases, successful professional experience in a communication field will be considered in admitting students to the program.

Applicants must complete the University of Kentucky's Graduate School online-application and pay the application fee. Per the Graduate School's instruction, all applicants are required to submit official scores on the Graduate Record Examination and official transcripts of all work taken at and beyond the college level. Students whose native language is not English must also submit an official score of at least 550 (or 213 on the computer version or 79 on the internet-based version) of the Test of English as a Foreign Language (TOEFL) or a minimum of 6.5 of the International English Language Testing Service (IELTS). Additionally, all applicants must submit to the College of Communications and Information Studies Graduate Admissions office: (1) transcripts of all work taken at the college level (unofficial or photocopies are acceptable), (2) at least three letters of recommendation focusing on their academic abilities accompanied by the supplied Reference Form and (3) the completed Application Essay indicating why they want to pursue a graduate degree with their reasons for applying to the program. No additional forms are required for financial assistance consideration-all applicants will be considered for funding at the time of review.

The Admissions and Financial Aid Committee will review only completed admission files after January 5 of each year. Applications must have their completed file on record with the Associate Dean for the Graduate Programs in Communication by the deadline in order to be considered for fall admission. New graduate students are permitted to enroll only during the fall semester. Exceptions will be made only because of circumstances beyond the control of the applicant. This deadline does not apply to: (1) UK undergraduate students in the College of Communications and Information Studies applying as University Scholars, who may be admitted for summer, fall or spring semesters, and (2) current students in the M.A. Program in Communication or the M.L.S., M.S.L.S or M.S. in ICT.

Degree Requirements

The M.A. program requires that every student become familiar with the important theories and concepts and the principal investigation methods used to expand knowledge of communication. All students are required to complete 30 credit hours to complete the Master of Arts degree. Students will be required to take 12 core credit hours consisting of Communication Theory (CI 651), and Communication Research Methods (CI 665), plus Statistics 570 (or its equivalent as determined by the Associate Dean for Graduate Studies). In addition, all students will be required to take either Interpersonal Communication (CI 631) or Mass Communication (CI 608 or CI 645). Students may choose from either the Plan A (Thesis option) or Plan B (non-thesis) options to complete their Masters degree requirements.

Plan A: Students choosing Plan A will take a minimum of 24 credit hours of actual course work, and write a thesis (Note: the six thesis credits must be taken under CI 768 - Residence Credit for the Master's degree).

All students will also complete an oral examination in defense of the thesis. Students choosing Plan B, will take a minimum of 30 hours of course work, followed by a written and oral examination over the student's program.

At least 21 credit hours of the minimum requirements for the master's degree must be from offerings within the College of Communications and Information studies (both Plan A and Plan B). Plan A students may include six hours of CI 768 in the 21 hours, since the thesis involves work in an area of communication. Also, at least 15 credit hours of the minimum requirements must be in courses at the 600 and 700 levels (both Plan A and Plan B). Plan A students may include six hours of CI 768 in the 21 hours. No more than three credit hours in Plan A and 6 credit hours in Plan B (of the minimum requirements) may be earned in directed study, directed reading, or internship courses (e.g., CI 696 , CI 700 , CI 781 , and CI 790).

Students without previous course work in communication may be required to take undergraduate work that does not count toward graduate credit, as determined by the Admissions Committee. Individuals without significant practical experience are strongly encouraged to take CI 696 - Internship in Communication, which could include opportunities to work with external agencies and funded projects, both within and outside the university.

Communication, PhD

The College of Communications and Information offers programs leading to the Master of Arts (either Plan A or Plan B) and Doctor of Philosophy degrees in Communication. The program offers special opportunities for students to apply communication theory and research across many contexts. Students may develop a program of study emphasizing (or combining) research areas such as health communication, information studies, instructional communication, media and mass communication, risk and crisis communication as well as strategic and organizational communication. The program is designed to serve the needs of students whose goals may include teaching and academic research, professional research, or communication careers in the media or other organizations.

Students pursuing work in health communication are encouraged to develop interdisciplinary programs involving the Department of Behavioral Science, the College of Medicine, as well as the Colleges of Dentistry, Health Sciences, Pharmacy, and Nursing. Communication also participates in interdisciplinary research programs with the Center for Prevention Research, the Sanders-Brown Center for Aging, and a variety of other health-related departments and institutes.

Admission Requirements

Students with an undergraduate degree from a fully accredited institution of higher learning and a grade point average of 3.0 on a 4.0 scale are admissible to the graduate program. Only students who have previously completed a master's degree may apply for admission into the doctoral program. Master's degree applicants are expected to have had at least twelve hours of appropriate undergraduate work in communication. Students with degrees in areas not directly related to communication are encouraged to apply, but they may be required to take course work without graduate credit. Should the Admissions Committee feel there is a deficiency in the applicant's studies, it may require enrollment in specific undergraduate courses. Courses taken to remove a deficiency cannot be counted towards the master's degree. In some cases, successful professional experience in a communication field will be considered in admitting students to the program.

Applicants must complete the University of Kentucky's Graduate School online-application and pay the application fee. Per the Graduate School's instruction, all applicants are required to submit official scores on

the Graduate Record Examination and official transcripts of all work taken at and beyond the college level. Students whose native language is not English must also submit an official score of at least 550 (or 213 on the computer version or 79 on the internet-based version) of the Test of English as a Foreign Language (TOEFL) or a minimum of 6.5 of the International English Language Testing Service (IELTS). Additionally, all applicants must submit to the College of Communications and Information Studies Graduate Admissions office: (1) transcripts of all work taken at the college level (unofficial or photocopies are acceptable), (2) at least three letters of recommendation focusing on their academic abilities accompanied by the supplied Reference Form and (3) the completed Application Essay indicating why they want to pursue a graduate degree with their reasons for applying to the program. No additional forms are required for financial assistance consideration-all applicants will be considered for funding at the time of review.

The Admissions and Financial Aid Committee will review only completed admission files after January 5 of each year. Applications must have their completed file on record with the Associate Dean for the Graduate Programs in Communication by the deadline in order to be considered for fall admission. New graduate students are permitted to enroll only during the fall semester. Exceptions will be made only because of circumstances beyond the control of the applicant. This deadline does not apply to: (1) UK undergraduate students in the College of Communications and Information Studies applying as University Scholars, who may be admitted for summer, fall or spring semesters, and (2) current students in the M.A. Program in Communication or the M.L.S., M.S.L.S or M.S. in ICT.

Degree Requirements

The Ph.D. program emphasizes communication as a social science. Graduates are prepared for university positions and careers in government, the media and other organizations as researchers, consultants and policy makers. Students must demonstrate general knowledge of communication across various contexts, as well as competence in a core area of specialization. Current core areas include health communication, information studies, instructional communication, media and mass communication, risk and crisis communication as well as strategic and organizational communication.

Students must demonstrate a thorough grasp of communication theory and research methods and must take course work in a cognate area outside of Communication. Proficiency in a foreign language is not required for successful completion of the Ph.D. in Communication. A student's advisory committee may, however, stipulate certain graduate-level courses in another language for the student's program that are consistent with the objectives of the student's program. The required curriculum is as follows:

Fall Semester: Year 1

- CI 651 COMMUNICATION THEORY
- CI 664 QUALITATIVE METHODS IN COMMUNICATION RESEARCH
- STA 570 BASIC STATISTICAL ANALYSIS (or other advanced statistics course)

Spring Semester: Year 1

- CI 631 PROSEMINAR IN INTERPERSONAL COMMUNICATION OR CI 645 PRESEMINAR IN MASS COMMUNICATION THEORY
- CI 665 QUANTITATIVE METHODS IN COMMUNICATION RESEARCH

Fall Semester: Year 2

- CI 751 ADVANCED TOPICS IN COMMUNICATION THEORY CONSTRUCTION

All students are also required to complete at least 3 credit hours of CI 790 RESEARCH PROBLEMS IN COMMUNICATION by the last semester of course work.

The Associate Dean for Graduate Programs, in consultation with the Graduate Review committee, can waive any of the above requirements for a student who has previously taken the same or equivalent course at UK or another university for graduate credit. Each student works with a major professor and an advisory committee to plan course work and complete the dissertation. The committee also administers the qualifying examination and the final oral examination. The qualifying examination consists of a written and oral examination over general communication theory, the core area of specialization, research methods/statistics and the cognate area.

Community and Leadership Development, MSCLDE

The Master's of Science in Community and Leadership Development (CLD) at the University of Kentucky is a unique multidisciplinary program that prepares students for a broad range of careers including continuing on for a Ph.D. in several different disciplines (e.g., Agricultural Education, Agricultural Leadership and Development, Communications, Rural Sociology).

Our curriculum integrates a solid foundation in social science theory and research methods. Students are challenged to understand and then apply both theory and methods in diverse contexts as both independent and collaborative scholar/professionals.

Our graduate students are expected to be engaged professionals participating in scholarly organizations, social change initiatives, community development associations, or community media campaigns. They should demonstrate the depth and breadth of their knowledge and skills through applied service or research projects. Finally, students are expected to contribute their expertise as academic, organizational and community leaders.

Our program offers two options: the Master's of Science in CLD as well as the Master's of Science with Initial Certification (MIC) for Agricultural Education (Grade 5-12).

Either degree may be obtained on a thesis basis (Plan A) or a non-thesis basis (Plan B).

Admission Requirements

Applicants for the MS-CLD program without MIC Option

Candidates for the MS-CLD program must have a minimum undergraduate GPA of 2.75 and graduate GPA of 3.0 to be eligible for admission to the Graduate School. International students must take the TOEFL examination, with a minimum score of 550 (213 on the computer-based test) required by the Graduate School.

Applicants for the MIC Option

Candidates in the graduate initial certification program must apply for admission to the Graduate School and to the Teacher Education Program. They must have a minimum undergraduate GPA of 2.75 to be eligible for admission to the Graduate School. In addition, they must submit GRE scores with minimum scores of 150 on verbal reasoning, 143 on quantitative reasoning and 4.0 on analytic writing. If GRE scores fall below these levels, they must submit passing scores on PRAXIS Core Academic Skills for Educators (CASE) for the deficient portions. A minimum 156 score on the reading portion, a minimum 150 score on the mathematics portion, and a minimum 162 score on the writing portion are required.

Materials required for Application

- Cover Letter summarizing motivation for pursuing MS in CLD and whether the candidate is seeking department funding.
- Current Resume/CV
- Narrative statement of intent that includes a description of:
 - Research interests and professional goals
 - How the Master's program in CLD will support these goals, with a specific discussion of how candidate interests and experiences align with faculty expertise or program strengths
 - Other insights into relevant experience or perspectives for demonstrating the candidate's interest in and qualifications for the CLD program
- Undergraduate/graduate transcripts
- 3 Recommendation letters (Only 1 can be written by a CLD faculty member)
- TOEFL/IELTS scores (International applicants only)
- GRE Score (MIC Option only)

Degree Requirements

30 credit hours required for a MS-CLD or MS-CLD MIC Option. Core requirements for both options are outlined below. Students must have the cumulative GPA of 3.0 or above in order to sit for the final examination. Incoming students are informed of the graduate-school and program-specific academic policies at the orientation held before classes begin each fall. Information is also on the CLD website.

For All MS-CLD Students - Core Requirements

Course No	Course Title	Hrs.	When to take
CLD 686	Research Design	3	Year 1 Fall
CLD 684	Statistical Analysis <u>or</u> any approved method course(s)	3	Year 1 or Year 2
CLD 630	Individual & Group Dynamics	3	Year 1 or 2 Fall
CLD 610 <u>or</u> CLD 670	Experiential Education <u>or</u> Community Engagement	3	Year 1 or Year 2

CLD 671 <u>or</u> CLD 685 <u>or</u> CLD 675 <u>or</u> CLD 660	Advanced Methods of Teaching <u>or</u> Advanced Community Development Theory & Practice <u>or</u> Theoretical Foundations of Communication and Community <u>or</u> Advanced Leadership Theory & Practice	3	Year 1 or Year 2
CLD 768 <u>or</u> CLD 758	Master's Thesis Research in CLD <u>or</u> Creative Component in CLD	3	Year 2 Spring
TOTAL		18	

Students must complete a total of at least **12 credit hours** in one Enrichment Area, defined in consultation with their Advisory Committee. Sample of Enrichment Areas are:

- Non-formal and Formal Education
- Agricultural Education and other Agricultural areas of interest (with a social science emphasis - e.g., horticulture's role in urban gardening)
- Community Development
- Leadership Development
- Rural Studies
- Community Communications

For MIC Students MS-CLD - Core Requirements

Course No	Course Title	Hrs.	When to take
CLD 686	Research Design	3	Year 1 Fall
CLD 684	Statistical Analysis <u>or</u> any approved method course(s)	3	Year 1 or Year 2
CLD 630	Individual & Group Dynamics	3	Year 1 or 2 Fall
CLD 671	Advanced Methods of Teaching CTE	3	
EDP 600 / FAM 654	Life Span Human Development and Behavior/	3	
CLD 610	Experiential Education	3	Year 1 or 2 Fall
CLD 758	Creative Component in CLD	3	
TOTAL		21	

For MIC Students, certification and degree completion are two separate issues. Candidates must complete additional hours beyond the core. Although part of the certification coursework can be used toward a

"General Specialty" in Agricultural Education, some required certification courses are strictly undergraduate level and will not count toward the M.S. degree. In particular, coursework in the 400 level with the "G" designation and 500-level and above courses can be used toward degree completion. Candidates' previous coursework in the content areas will be evaluated to determine additional work candidates may need to have adequate preparation in agricultural content knowledge.

Computational Fluid Dynamics Certificate

The graduate certificate in Computational Fluid Dynamics (CFD) is available, in principle, to all graduate students in engineering and the mathematical, physical and biological sciences. CFD is a generally recognized sub-discipline of fluid dynamics, complementing use of theory and experimentation in the analysis of fluid behavior from sub-micro scales to intergalactic cosmological distances. CFD is highly interdisciplinary and areas of current interest include biological flows (e.g. Air in respiratory systems and blood in circulatory systems of animals), flows in porous materials (e.g. Remediation of contaminated ground water, extraction of oil from marginal deposits) and combusting flows (e.g. For higher energy conversion efficiencies and less pollutant production). Thus, competency in the use of CFD is becoming critical to the advance of science and technology in the 21st century and it has become an essential engineering tool in industrial environments ranging from aerospace to food preparation and pharmaceuticals.

Computer Engineering, MSCOE

The MS and PhD programs in Computer Engineering (CPE) are offered in the College of Engineering jointly by the departments of Computer Science and Electrical and Computer Engineering. The field of computer engineering integrates expertise from both electrical engineering and computer science, emphasizing an understanding of computer architecture, hardware/software interface, and the integration of computers into products and systems at a larger scale. It involves developing technical skills in traditional areas of electrical engineering, such as analog and digital circuit design and communications systems, as well as in areas related to computer science, such as software development and operating systems. As might be expected in such a broad field, there are a great many specialty areas as well, which change regularly to match the needs of the job market. The programs support the College of Engineering's mission "to provide education, research, and service in a scholarly environment in a way that prepares our students for successful professional careers, addresses the changing needs of our other constituents, and responds to the technological challenges facing the Commonwealth and the Nation."

Admission Requirements

- CV (Optional)
- Personal Statement
- Transcript showing a Bachelor's degree with a minimum GPA of 3.0 in an ABET or CSAB accredited undergraduate program in Computer Engineering, Computer Science, or Electrical Engineering.
- Background in discrete math, programming, data structures, circuits, digital logic, and computer architecture.
- Assistantship Application (Optional)

- Official GRE scores
- Three letters of recommendation
- Application Deadlines:
 - Fall: July 15 (domestic applicants), March 15 (international applicants)
 - Spring: November 30 (domestic applicants), August 15 (international applicants)

Degree Requirements

Plan A: 30 credits, including 6 credits of thesis research as CS 612, plus a Master's thesis

Plan B: 30 credits, plus a Master's project

Both the MS and the PhD program require students to take nine credits of core coursework, to include 3 of the following courses:

- CS 570 MODERN OPERATING SYSTEMS
- EE 685 DIGITAL COMPUTER STRUCTURE
- CS 541 COMPILER DESIGN
- EE 580 EMBEDDED SYSTEM DESIGN

Students can focus their curriculum on a variety of areas, including cybersecurity, VLSI, computer architecture, quantum computing, advanced compiler techniques, and distributed operating systems. Any course in the CS and ECE departments may be used to complete the credit-hour requirements, and courses outside these departments may also apply, subject to DGS approval. Students must maintain a 3.0 or better GPA across all CS and ECE courses, and they must have an overall GPA of 3.0 or better to complete the MS degree.

Incoming students are informed of the graduate-school and program-specific academic policies at the orientation held before classes begin each fall. A handbook is also on the CS and ECE websites.

Computer Engineering, PhD

The MS and PhD programs in Computer Engineering (CPE) are offered in the College of Engineering jointly by the departments of Computer Science and Electrical and Computer Engineering. The field of computer engineering integrates expertise from both electrical engineering and computer science, emphasizing an understanding of computer architecture, hardware/software interface, and the integration of computers into products and systems at a larger scale. It involves developing technical skills in traditional areas of electrical engineering, such as analog and digital circuit design and communications systems, as well as in areas related to computer science, such as software development and operating systems. As might be expected in such a broad field, there are a great many specialty areas as well, which change regularly to match the

needs of the job market. The programs support the College of Engineering's mission "to provide education, research, and service in a scholarly environment in a way that prepares our students for successful professional careers, addresses the changing needs of our other constituents, and responds to the technological challenges facing the Commonwealth and the Nation."

Admission Requirements

- CV
- Personal Statement
- Transcript showing a Bachelor's degree with a minimum GPA of 3.0 in an ABET or CSAB accredited undergraduate program in Computer Engineering, Computer Science, or Electrical Engineering.
- Background in discrete math, programming, data structures, circuits, digital logic, and computer architecture.
- Assistantship Application (Optional)
- Official GRE scores
- Three letters of recommendation
- Application Deadlines:
 - Fall: July 15 (domestic applicants), March 15 (international applicants)
 - Spring: November 30 (domestic applicants), August 15 (international applicants)

Degree Requirements

36 credits (pre-Qualifying exam), the Qualifying Exam, plus a doctoral dissertation

Both the MS and the PhD program require students to take nine credits of core coursework, to include 3 of the following courses:

- CS 570 MODERN OPERATING SYSTEMS
- EE 685 DIGITAL COMPUTER STRUCTURE
- CS 541 COMPILER DESIGN
- EE 580 EMBEDDED SYSTEM DESIGN

Students can focus their curriculum on a variety of areas, including cybersecurity, VLSI, computer architecture, quantum computing, advanced compiler techniques, and distributed operating systems. Any

course in the CS and ECE departments may be used to complete the credit-hour requirements, and courses outside these departments may also apply, subject to DGS approval.

Of the 36 course credits, at least 24 credits must be courses in CS, EE, or CPE. The remaining courses must be approved by the DGS. At least 18 credits of the total coursework, including 12 credits of the CS/EE/CPE coursework, must be taken at the 600 or 700 level. Students entering the doctoral program with an MS degree in a relevant discipline (typically CS, EE, or CPE, or other technical discipline relevant to their area of study as determined by the Director of Graduate Studies) must complete at least 18 credit hours of additional course work beyond their MS. Of these 18 course credits, at least 12 must be courses in CS, EE, or CPE. At least 9 credits of the total coursework, including 6 credits of the CS/EE/CPE course work, must be taken at the 600 or 700 level.

Incoming students are informed of the graduate-school and program-specific academic policies at the orientation held before classes begin each fall. A handbook is also on the CS and ECE websites.

Computer Science, MS

The Department of Computer Science offers the program of study leading to the Master of Science in Computer Science degree. The M.S. program graduates are expected to demonstrate proficiency in the fundamental areas of computer science. Admission to the program is highly competitive and based upon academic record, GRE scores, and letters of recommendation, etc. It is strongly suggested that applicants present evidence of competence in computer science as well as mathematical maturity.

Students can either take option A (thesis option) or option B (non-thesis option). Details can be found in the section of Degree Requirements.

Admission Requirements

- Transcript showing a bachelor's degree (4 years or equivalent)
- GRE (waived for Fall 2021 and Spring 2022)
- TOEFL score (for international students)
- Three letters of recommendation
- Statement of purpose
- Additional requirements:
 - A GPA of at least 3.0 on a 4.0 scale
 - Evidence of Computer Science background. Students from a non-CS major may be required to take preparatory CS courses before they can be admitted into the program.

Degree Requirements

To receive an MS, the student must finish either option A (thesis option) or option B (non-thesis option).

- Option A requires at least 24 credit hours of regular coursework in CS and up to six credits of CS 768 Residence Credit for Master's Degree. The total number of credits required is 30. MS students under option A must prepare a thesis.
- Option B requires 30 credit hours and a project. The 30 hours may include CS 610. MS students under option B must complete the project.

In either option, students may take up to 6 credits of CS 612. For either option, at least half of the credit hours must be in higher than 500-level courses (excluding CS 768 and CS 680). Courses from other departments require a prior DGS approval.

All courses other than CS 768 for option A must have regular letter grades, that is, no pass/fail, and the overall GPA in these classes must be 3.0 or higher.

MS candidates must pass four core courses, two from each of the following two groups:

1. CS 505 (Databases), CS 541 (Compilers), CS 570 (Systems), CS 571 (Networks), and
2. CS 515 (Algorithms), CS 537 (Numerical), CS 575 (Theory).

The final grades in each course must be B or higher. In exceptional cases, when courses needed to complete the requirement are not offered, the DGS may approve other courses as equivalent replacements.

In addition, the graduate school policies manual specifies additional requirements and procedures. It can be found on the graduate school website.

Incoming students are informed of the graduate-school and program-specific academic policies at the orientation held before classes begin each fall. A handbook is also on the CS website.

Computer Science, PhD

The Department of Computer Science offers the program of study leading to the Doctor of Philosophy in Computer Science degree. The doctoral program in Computer Science is a research degree granted primarily on the demonstration of substantial research achievement. Areas of research actively pursued by faculty and students within the department include: machine learning, artificial intelligence, data mining, cybersecurity, operating systems, distributed computing and networking, cloud computing, parallel processing, data base technology, computer vision, bioinformatics, theory of computation, design and analysis of algorithms, numerical methods, computational science, and software engineering. Courses in these and other areas are available to permit students to complete studies of sufficient breadth and depth prior to engaging in independent research. Admission to the program is highly competitive and based upon academic record, GRE scores, and letters of recommendation, etc. It is strongly suggested that applicants present evidence of competence in computer science as well as mathematical maturity.

Admission Requirements

- Transcript showing a bachelor's degree (4 years or equivalent)
- GRE (waived for Fall 2021 and Spring 2022)
- TOEFL score (for international students)

- Three letters of recommendation
- Statement of purpose
- Additional requirements:
 - A GPA of at least 3.0 on a 4.0 scale
 - Evidence of Computer Science background. Students from a non-CS major may be required to take preparatory CS courses before they can be admitted into the program.

Degree Requirements

Residence requirement. PhD students must spend two years (36 credits of graduate course work, all courses be letter grade courses) in residence before the QE. CS MS students who transfer to the PhD program before earning the MS degree may count all their UK graduate credits earned towards the MS degree (except CS 768 and similar) towards the first and second year of residency.

1. First year. Either (a) Masters at UK, or (b) 18 graduate credits in CS at UK, or (c) transfer of residence credits from an awarded Masters at an accredited domestic or international school. Students request transfer by completing an online form. Prior approval for transfer from the DGS is necessary. In each case, student must still complete the breadth requirement (see next).
2. Second year. 18 additional graduate credits at UK.

Breadth requirement. Students fulfill the breadth requirement by taking at least one course from each of the following areas and receiving at least a B in all, and an A in at least two of them.

1. CS 505 INTERMEDIATE TOPICS IN DATABASE SYSTEMS, CS 541 COMPILER DESIGN
2. CS 570 MODERN OPERATING SYSTEMS, CS 571 COMPUTER NETWORKS
3. CS 515 ALGORITHM DESIGN, CS 575 MODELS OF COMPUTATION
4. CS 535 INTERMEDIATE COMPUTER GRAPHICS, CS 537 NUMERICAL ANALYSIS

A student who has taken equivalent courses elsewhere can ask for them to apply to the breadth requirement; each such case is evaluated on its merits by the DGS. In exceptional cases, when courses needed to complete the requirement are not offered, the DGS may approve other courses as equivalent replacements.

Depth requirement. The Depth process is individualized to the research focus of the student. The student's committee decides on the appropriate form of this process. It can be a written exam, an oral exam, a literature review, a published paper, some other requirement, or a combination of these. The student's committee informs the DGS when the student has accomplished this process.

The overall GPA must be 3.0 or higher.

No remaining incomplete grades before the qualifying exam.

In addition, the graduate school policies manual specifies additional requirements and procedures. It can be found on the graduate school website.

Incoming students are informed of the graduate-school and program-specific academic policies at the orientation held before classes begin each fall. A handbook is also on the CS website.

Counselor Education, MAC

Graduates of this program receive a Master of Arts in Counseling (M.A.C) in Counselor Education with a specialty in either Clinical Mental Health Counseling or Rehabilitation Counseling. Our program is approved by the Kentucky Council on Higher Education and is the only Master's program in Rehabilitation Counseling in the Commonwealth. We are also proud to have nationally recognized faculty within a program that has been consistently ranked in the top ten rehabilitation counseling programs in the country by U.S. News and World Report.

Delivery Method: Online (No residency requirement)

Admission Requirements

- An undergraduate G.P.A. of 2.75 or higher, or a graduate GPA of at least 3.00
- CV/Resume
- Official transcripts
- A personal interview with program faculty
- Three references indicating appropriateness of student for the program
- A written statement indicating interest in and goals for the degree program
- GRE scores are not required

Degree Requirements

Course Work

Both specialty areas in Rehabilitation Counseling and Clinical Mental Health Counseling require the completion of 60-credit hours of graduate work in the appropriate specialty area. Both specialties require 43 hours from the core curriculum and 17 credit hours of electives specialization courses. Students in the Rehabilitation Counseling specialty area may complete the Certified Rehabilitation Counselor Examination in lieu of a program final. Any student who does not take a national certifying exam will be required to take a 100-question multiple choice test that will cover the same content.

Field Work

Practicum (3 credit hours): a supervised practicum experience of 200 hours

Internship (9 credit hours): a supervised internship experience of 600 hours

CED 710 must be successfully completed to advance to CED 730 (NOTE: CED 710 and CED 730 are taught over 12 weeks in the summer semester)

Certification in Rehabilitation Counseling

Students interested in achieving the Certified Rehabilitation Counselor (CRC) credential should visit the Commission on Rehabilitation Counseling Certification website to learn more and keep up-to-date with pertinent deadlines.

Professional Counselor Licensure

Licensing in professional counseling is a state-specific credential. UK provides information about licensure in various states through UK Online. Students should also visit their state's licensure board website to ensure that our curriculum will meet the requirements for licensure.

Creative Writing, MFA

The two-year MFA program in Creative Writing in the University of Kentucky English department provides a strong basis in mastering the tools of imaginative writing, from poetry to fiction to creative nonfiction. Situated in historic Lexington and surrounded by the awesomeness of thoroughbred horse farms and bourbon distilleries, the University enjoys a rich literary heritage dating back to 1947, when Pulitzer Prize-winning novelist A.B. Guthrie first offered courses in fiction. Graduates of the English Department include Gurney Norman, Frank X Walker, Bobbie Ann Mason, Rebecca Gayle Howell, Wendell Berry, Kayla Rae Whitaker, Maurice Manning, Bianca Spriggs, Patrick O'Keefe, Holly Goddard Jones, and James Baker Hall. The MFA Program in Creative Writing builds upon that rich history by offering students access to a diverse faculty in fiction, poetry, and creative non-fiction. With rare exceptions, all MFA students are funded through TAships.

MFA candidates take both workshop and craft courses during their tenure. In addition, students can draw on the expertise of a faculty of 41 professors, including a distinguished roster of ten professors of creative writing.

Admission Requirements

Students eligible for the MA program must have:

- A UGPA of at least 2.75 on a 4.0 scale. Unofficial transcripts from all attended institutions are required. If the student is admitted and accepts, the graduate school will require all official transcripts. University of Kentucky graduates should note their degrees on the application but are not required to submit transcripts.
- Three letters of recommendation, preferably from faculty familiar with the student's strengths and interests.
- A statement of purpose of no more than two pages that outlines what interests the student has in pursuing the MFA.
- A writing sample of approximately 20 pages that demonstrates the student's strengths as a writer.

- A CV or resume.
- As of fall 2021, neither the general GRE nor the subject test in English is a required component of a student's application.

Degree Requirements

MFA candidates must:

- Take 30 hours of coursework, including:
 - 12 hours of ENG 607 GRADUATE WRITING WORKSHOP (SUBTITLE REQUIRED)
 - 6 hours of ENG 608 CRAFT OF WRITING: (SUBTITLE REQUIRED)
 - 3 hours of any English graduate course at the 600 or 700 level
 - 3+ hours of the student's choice of any additional course at the 600 or 700 level or (outside the English department) at the 400G level or above.
 - Up to 6 hours of ENG 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE or an additional 6 hours of graduate coursework
- Write a thesis consisting of a substantial body of original writing. Both are required for successful completion of the MFA degree. The thesis should be over 120 pages of fiction (short stories, novella or novel) or non-fiction, or a collection of approximately 48 poems.
- Form a committee of three faculty members chosen by the student and approved by the Director of Creative Writing.
- Defend the thesis in a 90-minute oral examination.

Curatorial Studies, MFA

The Master of Fine Arts in Curatorial Studies at the School of Art & Visual Studies (SA/VS) prepares students for careers in the expanding field of curatorial practice. As the first three-year hybrid (online and residency) MFA in Curatorial Studies in the United States, this practice-based terminal degree uniquely equips graduates for careers in a variety of arts organizations, as well as teaching positions at the college level. Through internships, online courses, and residential seminars, students gain a solid foundation in the history and theory of curatorial practice, as well as practical experience in exhibition development, design, and implementation. With courses in art history, art studio, art education, and arts administration, among others, it offers a dynamic interdisciplinary degree that prepares graduates to be highly competitive in a diverse job market. Courses will be selected in consultation with the Graduate Advisor to take full advantage of the multiple approaches, expertise, and insights of the faculty

Admission Requirements

Applicants from a range of educational backgrounds may earn a MFA in Curatorial Studies. However, those without an undergraduate degree in Art History, Studio Art, Art Education, or Arts Administration should consult with the curatorial studies Graduate Advisor before applying. The program attracts a highly competitive pool of national and international applicants-many of whom already have some curatorial

experience. All admissions will be reviewed by the program's Graduate Advisor along with a multidisciplinary committee comprised of faculty from art education, art history, and art studio. The requirements otherwise conform to UK general requirements for Graduate School admission.

Application Procedures

The Graduate School, which is the administrative unit for all graduate students, and the Curatorial Studies graduate program, which is responsible for the academic curriculum, require different application materials. Application materials for admission to the Graduate School include:

- Application form
- Copies of transcripts from all higher education institutions previously attended, which should be uploaded on the appropriate location of the online application. Domestic students are to self-report GPAs for each institution attended. (Tip: Convert transcripts on colored paper to white with black ink so as not to exceed the megabyte limitation on the online form.)
- TOEFL scores and/or IELTS scores if an international student.

Application materials for the Curatorial Studies graduate program are also to be submitted online on the graduate admissions application and include:

- Brief résumé.
- A statement of purpose
- Sample of research writing (such as an undergraduate research paper or exhibition catalogue essay) or a digital portfolio (if the candidate holds a BA, BFA, or MFA degree in art studio or art education). If an applicant has prior work experience in the field, they may also include documentation of curatorial work along with their writing sample (installation shots, press releases, etc.). Be careful not to exceed the megabyte limitation on the online form.
- Contact information in the form of email addresses for three recommenders who will be notified to submit their recommendations electronically to the online system.

Application Deadlines January 1 - for all applicants, including those requesting a teaching assistantship. Students who want an assistantship should send a separate letter that indicates their interest in being considered either by e-mail attachment or in hardcopy form to the Graduate Advisor in Art History & Visual Studies, School of Art & Visual Studies, 236 Bolivar Street, University of Kentucky, Lexington, KY 40506-0090.

Degree Requirements

The MFA degree will be awarded on the completion of 60 credit hours of graduate course work. Of these, 42 credit hours are "program core" required courses (18 hours of which are guided internships). The remaining 18 credit hours are electives (9 hours of "guided electives" in Arts Administration, and 9 "free electives" that relate to the student's specific area of interest within curatorial studies).

Requirements

Program Core - Students are required to take the following courses (at number of credit hours specified):

- ART 504 CURATORIAL PRACTICE: HISTORY, THEORY, PRACTICE (3 hours)
- ART 604 CURATORIAL PRACTICE: CURATORIAL PROJECTS (3 hours)
- ART 768 THESIS PREPARATION AND PRESENTATION (6 hours)
- ART 794 INTERNSHIP: BOLIVAR GALLERY (3 hours)
- ART 795 INTERNSHIP: UK ART MUSEUM (3 hours)
- ART 796 INTERNSHIP: COMMUNITY PARTNERS (6 hours)
- ART 797 INTERNSHIP: ARTS ORGANIZATION (6 hours)
- A-H 504/A-H 604 PRACTICAL PROBLEMS IN ART HISTORY: (SR) (3 hours)
- A-H 650 ADVANCED CONTEMPORARY ART HISTORY 3 hours)
- A-E 550 COMMUNITY ART EDUCATION/A-E 560 MUSEUM EDUCATION (3 hours)
- A-S 793 GRADUATE STUDIO SEMINAR (3 hours)

Guided Electives - Students are required to 9 credit hours of electives in the Department of Arts Administration, choosing from the following:

- AAD 660 SOCIAL AND CULTURAL ENTREPRENEURIALISM (3 hours)
- AAD 650 THE ARTS AND THE LAW (3 hours)
- AAD 640 PRINCIPLES OF FUNDRAISING (3 hours)
- AAD 630 MARKETING RESEARCH AND PLANNING FOR ARTS ORGANIZATIONS (3 hours)
- AAD 620 MANAGEMENT AND LEADERSHIP IN THE ARTS (3 hours)
- AAD 625 FINANCIAL MGMT FOR ARTS ORGANIZATIONS (3 hours)
- AAD 600 ARTS ADMINISTRATION TECHNOLOGIES (3 hours)
- AAD 565 COMMUNITY ENGAGEMENT IN THE ARTS (3 hours)
- AAD 542 GRANT WRITING FOR NONPROFIT ORGANIZATIONS (3 hours)
- AAD 500 THE ARTS AND ARTISTS IN SOCIETY (3 hours)

Free Electives - Students are required to take 9 credit hours in electives in related areas such as Anthropology, Arts Administration, Art Education, Art History, Art Studio, Film Studies, Historic Preservation,

History, Literature, Philosophy, Women's Studies, etc. as determined by consultation with the Graduate Advisor.

Other Requirements

MFA Thesis - The degree requires the successful completion of a final exhibition accompanied by a written document. Students will take 6 hours ART 768 in preparation for curating their thesis exhibition (see "program core"). Additional hours of thesis research may be taken if necessary (ART 748 INDEPENDENT THESIS RESEARCH at 0 hours).

Data Science, MS

The Master of Science with a major in Data Science degree is a two-year interdisciplinary program taught by faculty from three departments: Computer Science, Biostatistics, and the Institute of Biomedical Informatics. The curriculum aims to prepare the future data science professional with a critical skillset that includes database management, statistical and machine learning techniques and big data analytics. The program includes a required capstone project, in which students analyze real-life datasets in a selected application domain in collaboration with domain experts and other data scientists.

The Master of Science with a major in Data Science degree is available with two concentrations:

- Biomedical Informatics
- Software and Systems for Data Science

Admission Requirements

Admission to the program requires a minimum undergraduate GPA of 3.0 on a 4.0 scale. Students must have successfully completed a course in calculus (comparable to the UK course MA 113) and two courses in programming (comparable to the UK courses CS 115 and CS 215). Students will preferably have also successfully completed a course on linear algebra (such as the UK course MA 322) and will have experience using several programming languages. Exceptions to these requirements may be made by the Director of Graduate Studies if other persuasive evidence indicating the student's potential of success is available. Such evidence could include high scores on standardized tests (e.g., GRE); demonstrated ability in computer programming; or strong performance in courses in the sciences, engineering, mathematics, statistics, or other quantitative disciplines.

Degree Requirements

The program requires 33 credit hours which are divided into Major (27 hours) and Concentration (6 hours) Requirements.

Major Requirement (27 credit hours)

1. Core (15 credit hours)
 - DS 501 FUNDAMENTALS OF DATA SCIENCE (3 credit hours)
 - BST 600 INTRODUCTION TO BIOSTATISTICAL METHODS (3 credit hours)
 - CPH 630 BIOSTATISTICS II (3 credits hours)
 - DS 710 RESEARCH SEMINAR IN DATA SCIENCE (1 credit hour x 3 times)
 - DS 711 MASTERS PROJECT IN DATA SCIENCE (3 credit hours)
2. Guided Electives in CS (3 credit hours) (One of the three required):
 - CS 405G INTRODUCTION TO DATABASE SYSTEMS
 - CS 460G MACHINE LEARNING
 - CS 626 LARGE SCALE DATA SCIENCE
3. Free Electives (9 credit hours)
 - All electives must be approved by the DGS. At least two free electives must be at the 600 or 700 level. Moreover, free electives must include at least two courses (6 credits) with a strong data science component in the subject area of the student's project.

Concentration Requirement (6 credit hours)

There are currently two concentrations from which the student is required to select.

Concentration in Biomedical Informatics

1. Concentration Core (3 credit hours)
 - BMI 633 INTRODUCTION TO BIOINFORMATICS
2. Concentration Electives (3 credit hours) (One of the three required)
 - BMI 730 PRINCIPLES OF CLINICAL INFORMATICS
 - BMI 733 BIOMEDICAL NATURAL LANGUAGE PROCESSING
 - BMI 734 INTRODUCTION TO BIOMEDICAL IMAGE ANALYSIS

Concentration in Software and Systems for Data Science

1. Concentration Core (6 credit hours)
 - CS 460G MACHINE LEARNING or CS 628 DATA MINING
 - CS 626 LARGE SCALE DATA SCIENCE
 - CS 505 INTERMEDIATE TOPICS IN DATABASE SYSTEMS only if CS 626 LARGE SCALE DATA SCIENCE is taken as a Guided Elective

Program Website: <https://www.engr.uky.edu/data-science>

Dentistry, MS

The Master of Science degree programs in the Orofacial Pain, Orthodontics, and Periodontology graduate specialty programs are designed to produce graduates who are clinically adept, well versed in research and the biologic basis for dentistry, and prepared to function at a high level of accomplishment in both clinical practice and academic dentistry. These interdisciplinary programs involve dental school clinical and graduate program faculty as well as faculty from other programs throughout the University of Kentucky. All students receive teaching experience in anticipation of full- or part-time academic involvement after graduation.

Successful completion of the Master of Science degree is prerequisite before the awarding of a training certificate in the Orthodontics and Periodontology programs. The Masters of Science degree is available in two options:

- Plan A, minimum of 30 credits, plus a Master's Thesis and successful thesis defense
- Plan B, minimum of 30 credits, successful research project results defense, plus a manuscript completion for a peer-reviewed journal based on research project results.

Admission Requirements

- Applicants to any of the Master of Science degree programs must have a D.M.D./D.D.S. degree from an accredited United States or Canadian dental school or equivalent.
- Applicants who are not native English speakers must score at least 550 (paper,) 213 (computer) or 79 (internet) on the Test of English as a Foreign Language (TOEFL) or 6.5 on the International English Language Testing System (IELTS).
- The Graduate School requires an overall grade point average of 3.00 on all graduate work; individual programs may have higher requirements.
- The individual degree programs may have different admission requirements; please consult the individual degree program website:
 - Orofacial Pain: <https://dentistry.uky.edu/orofacial-pain-applications-and-admissions>
 - Orthodontics: <https://dentistry.uky.edu/orthodontics-applications-and-admissions>
 - Periodontology: <https://dentistry.uky.edu/periodontology-applications-and-admissions>

Program Requirements

Requirements To Be Added

Developmental Disabilities Certificate

The graduate certificate in Developmental Disabilities prepares professionals from a broad range of disciplines to play a leadership role in providing services and supports for people with developmental disabilities and their families. An emphasis is placed on developing skills in the field of disability research. The course work emphasizes a life span and interdisciplinary perspective with an emphasis on promoting self-determination, community integration and inclusion. In addition to a broad, interdisciplinary perspective, students acquire a basic foundation in a number of specific, topical areas such as specialized health care services and financing, inclusive education, behavioral supports, employment and community living options, advocacy, legislation, assistive technology, organizational development and theory, group facilitation, and research proposal development. All courses are taught by an interdisciplinary faculty. Students have the opportunity to participate in a practicum and work directly with individuals with developmental disabilities and their families. Students also complete a research project under faculty supervision. Three didactic courses (HDI 600, 602 and 604) and one practicum course (HDI 603) are required for the certificate. In addition to

the required courses, two or three hours of elective course work is also required; either HDI 601, HDI 605 or one elective from outside HDI courses and those courses required in the student's degree program.

Digital Mapping Certificate

The New Maps Plus graduate certificate in digital mapping is designed to serve the expanding landscape of mapping. This includes new professional sites and applications where maps are made by various people (from small business owners to non-profit managers to marketers) using all kinds of (often freely available) software and websites. Admissions requires a bachelor's degree but no prior GIS or mapping experience is necessary. Holders of the graduate certificate will be able to:

- Identify the appropriate applications of different forms of geospatial data, analytical techniques and mapping software platforms.
- Gather, integrate, transform and analyze geospatial data from multiple sources.
- Create static and interactive maps and visualizations in accordance with prevailing and rigorous cartographic standards.
- Develop basic web-based programs and scripts utilizing web standards to enhance user interaction with maps.
- Identify and implement appropriate applications of design components to maximize the usability of maps.
- Construct a publicly-available online portfolio of data, code, maps and accompanying explanations on an online sharing platform such as Github.

Digital Mapping, MS

The Department of Geography at the University of Kentucky offers two completely online programs in Digital Mapping: an 11-credit Graduate Certificate and a 30-credit Master of Science (Plan B, nonthesis).

The Digital Mapping graduate programs at the University of Kentucky offer a challenging, intensive, digital mapping curriculum that emphasizes the acquisition of technical skills - coding, GIS, web development - while also preparing students to critically address the complexity of today's information ecosystem.

These Graduate Certificate and Master of Science degree programs in digital mapping were designed with all levels of experience in mind. Whether students are new to open-source software or an experienced GIS user, they will benefit from a truly unparalleled online learning experience developed by internationally renowned faculty in a top-ranked geography department.

Students will develop the technical skills and design fluency you need to make highly sophisticated web maps that are also elegant and impactful. Perhaps even more importantly, they will learn to think critically about the social dimensions of the maps they make and the data from which they make them. Maps, after all, are powerful things: they shape what we see and what we don't, with serious implications for how we come to know the world.

Admission Requirements

Prospective applicants must meet the general requirements of the Graduate School regarding minimum undergraduate grade point average. The applicant will be required to submit official transcripts for all undergraduate work. Required supplemental materials include a personal statement; CV and/or resume;

mapping portfolio; examples of code/design; and three letters of recommendation. GRE scores are not required for application. New admission to the Master of Science in Digital Mapping occurs twice annually, during the Spring and Fall semesters. One additional entry point is available in the Summer for those students that have completed the requirements for the Graduate Certificate in Digital Mapping. Applications are accepted until 2 weeks before the term start using custom dates detailed on the Programs page: <https://newmapsplus.as.uky.edu/programs>

Degree Requirements

After applying and being accepted to the MS in Digital Mapping, the student must complete the following 30 hours of coursework:

- MAP 671 INTRODUCTION TO NEW MAPPING (3)
- MAP 672 PROGRAMMING FOR WEB MAPPING (4)
- MAP 673 DESIGN FOR INTERACTIVE WEB MAPPING (4)
- MAP 674 SPATIAL DATA ANALYSIS AND VISUALIZATION (4)
- MAP 675 COLLABORATIVE GEOVIZUALIZATION (4)
- MAP 701 HISTORY OF CRITICAL CARTOGRAPHY (2)
- MAP 719 SOCIAL IMPACTS OF NEW MAPPING (3)
- MAP 698 FINAL PROJECT PREPARATION (3)
- MAP 699 FINAL PROJECT IMPLEMENTATION (3)
- **TOTAL CREDIT HOURS FOR MS DEGREE 30**

Diplomacy and International Commerce, MA

The Patterson School of Diplomacy and International Commerce offers a Master of Arts program designed to prepare students academically, professionally, and personally for careers in international affairs. Formal academic coursework is combined with experiential learning via a rich variety of co-curricular activities. The Patterson School M.A. is excellent preparation for service with government agencies such as the U.S. Departments of State, Treasury, or Commerce, and in the intelligence community, careers in international organizations or non-governmental organizations or in the private sector. The Patterson School faculty is a mix of academics and former foreign-affairs practitioners who spent decades in government service prior to starting their teaching careers. Students come to the Patterson School with diverse undergraduate degrees, but most are well-prepared in political science, economics and foreign languages.

Our flexible programs total 30 credit hours and can be completed in just three semesters. Each student enrolls in core curriculum courses and seminars taught by regular Patterson School faculty in one of four concentrations: diplomacy, development/international organizations, security/intelligence, and international commerce. Beyond this core, students can work with their academic advisors to craft interdisciplinary courses of study tailored to their unique desires that draw widely upon other University of Kentucky graduate departments. Patterson School students have developed individual degree plans that include classes in

agricultural economics, anthropology, finance, marketing, management, foreign languages, history, political science, communications, sociology, law, geography, public health, and more. Additionally, students can pursue certificate programs in Global Health or International Education. This flexibility in curriculum is pivotal to the Patterson School concept.

Admission Requirements

Admission to the Patterson School is highly selective. The deadline for applications is February 1st. The online application process begins at the Patterson School website <http://www.uky.edu/PattersonSchool/>. Each applicant is required to submit GRE scores, college transcripts, a resume, a brief statement explaining his/her interest in the Patterson School program in terms of career goals, and two to four letters of reference. International students are also required to take the Test of English as a Foreign Language or the International English Language Testing System.

Degree Requirements

All students begin the program as a group in the fall semester. Even though three semesters are required to complete the required coursework, some students elect to remain a fourth semester in order to obtain more breadth and/or depth in their desired fields of professional preparation, or additional language training. Entering students are expected to have a strong background in at least one foreign language but many students undertake further language study during the program (although this study does not earn credit for the M.A. degree). Students are strongly encouraged to complete a career-related internship in the United States or abroad, typically during the summer between their second and third semesters.

Foreign Language

Cornerstone & Methodology

All students must complete the following two courses in the Fall semester of their first year of the program:

- DIP 700 DYNAMICS OF DIPLOMACY (3)
- DIP 777 RESEARCH PROBLEMS IN INTERNATIONAL RELATIONS (3)

One of the following Concentrations:

Diplomacy

Complete the following course:

- DIP 600 SPECIAL TOPICS

International Security & Intelligence

Complete two of the following courses:

- DIP 726 INTRODUCTION TO INTELLIGENCE (3)
- DIP 742 NATIONAL SECURITY POLICY (3)

- DIP 750 DEFENSE STATECRAFT (3)

International Commerce

Complete the Following Course:

- DIP 720 ECONOMIC STATECRAFT (3)

International Organizations & Development

Complete two of the following courses:

- DIP 600 SPECIAL TOPICS: Transnational Orgs & Processes (3)
- DIP 600 SPECIAL TOPICS: Economics of Development (3)

Total Credit Hours: 30

All students must successfully pass written and oral comprehensive examinations before being awarded their master's degree. These exams require students to draw upon the full measure of academic and professional activities they have experienced in the program, testing their universal foreign affairs knowledge as well as their unique specialized skills. During their last semester, most students join informal study groups to prepare for this critical final step. Each student has only two chances to pass the comprehensive examinations. Students are also required to maintain a 3.0 grade point average to graduate.

Patterson School students are able to take advantage of a variety of joint degree opportunities to combine the study of international affairs with other disciplines, such as law or business. Students must meet the admission requirements of the separate programs independently and commit upfront to pursue both degrees. The Patterson School currently maintains concurrent degree programs in Law, Business, Economics, and Modern Languages. While many Patterson School graduates have later obtained doctoral degrees, this M.A. program is specifically designed to prepare students for non-academic careers in international affairs. Students who contemplate working immediately on a Ph.D. are generally advised to pursue that goal elsewhere.

J.D./M.A. in Diplomacy -- The University of Kentucky Law School joins the Patterson School in offering a dual degree program in law and diplomacy that permits students to acquire both degrees in four years' time. Professionals trained in both law and international affairs are well positioned to seek positions in the private, public and non-profit spheres. Interested students must apply separately to each program, noting their desire to pursue the dual degree. For further information, contact the Director of Graduate Studies in the Patterson School of Diplomacy and International Commerce and the College of Law.

M.B.A./M.A. in Diplomacy -- The Patterson School of Diplomacy and International Commerce and the College of Business and Economics offer the opportunity to obtain the Master of Business Administration (M.B.A.) and the MA in Diplomacy degrees in a dual degree program that requires less time than would be required to achieve both degrees separately. The dual program of studies is designed to train students for international business careers or careers in government service that emphasize international business relations. Interested students must apply separately to each program, noting their desire to pursue the dual degree.

M.S. in Economics/M.A. in Diplomacy --The Department of Economics of the Gatton College of Business and Economics combines with the Patterson School of Diplomacy to offer a dual degree program in economics and diplomacy that allows students to obtain both degrees in less time than would be required to achieve both degrees separately. The dual program of studies is designed to train students to become international economic analysts serving in government or international research institutions, or economic specialists headed for government departments (Treasury, State, U.S. Trade Representative) or intergovernmental organizations. Interested students must apply separately to each program, noting their desire to pursue the dual degree.

M.A. in a Modern Language/M.A. in Diplomacy --The Department of Modern and Classical Languages, Literatures, and Cultures in cooperation with the Patterson School of Diplomacy and International Commerce offers a dual degree program that allows students to obtain both degrees in less time than would be required to achieve both degrees separately. Interested students must apply separately to each program, noting their desire to pursue the dual degree.

Distance Education Certificate

In response to increasing student demand, a large number of postsecondary institutions and agencies in public health, government and private business are developing distance learning programs. However, distance education requires a unique set of skills for course program development, management, support, and delivery. To prepare current and future faculty and administrators, the University of Kentucky offers a graduate certificate in distance education through the collaborative efforts of the Department of Early Childhood, Special Education and Rehabilitation Counseling and the Department of Curriculum and Instruction within the Instructional Systems Design (EISD) program and Distance Learning Programs.

Diversity and Inclusion Certificate

The graduate certificate in Diversity and Inclusion is an online, 12 credit hour certificate designed for a wide range of professional backgrounds in recognition of our increasingly diverse world and workplaces. The certificate provides both the knowledge and tools to develop, promote, and support inclusive environments through 8-week, online courses designed by faculty. Skills and knowledge gained through the certificate are highly sought after by today's employers and would be beneficial to business administrators, health care professionals, government employees, educators, and non-profit organizations.

Early Childhood, Special Education, and Rehabilitation Counseling, PhD

The Counselor Education Doctoral Program offers a Departmental Ph.D. degree with a formal option in Counselor Education, Research, and Policy. The doctoral program is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The doctoral program is campus-based and is not offered on-line. We have carefully designed our doctoral curriculum to meet the needs of students who are preparing for careers in rehabilitation counselor education, research, and administration. Our students complete advanced doctoral seminars in rehabilitation counseling research, psychosocial aspects of chronic illnesses and disability, rehabilitation counseling theory, professional rehabilitation counseling issues, and rehabilitation administration and policy. In these courses, students explore a wide range of psychosocial, societal, and international perspectives on disability and counseling. In addition to the counseling professional seminars, doctoral students' complete coursework in the following areas:

1. A Graduate Core (23 hours), including coursework in college and university teaching, grant writing, clinical practicum experiences and practicum experiences in university teaching, and dissertation residency.
2. A Counselor Education area of emphasis core (15 hours) (counseling professional seminars, described above).
3. A thematic support area from outside the area of emphasis (15 hours), including interdisciplinary coursework consisting of courses from outside the Department, such as: Psychology, Rehabilitation Sciences, Educational and Counseling Psychology, Social Work, Sociology, Communication Disorders, or other areas, designed to develop the student's expertise in a focused area of rehabilitation counseling research, and typically this core directly relates to the student's dissertation topic.
4. A research block (21 hours), including course work in statistical methods, quantitative research methods, qualitative research methods, and mixed method approaches, and research internships.

Each student's program of studies is planned and supervised by an Advisory Committee consisting of 4 individuals, including the student's major professor and two other members from the Department. The remaining member represents the student's outside support area. Upon completion of the prescribed coursework, students are examined to evaluate their preparedness to be advanced to candidacy for the Doctor of Philosophy degree. The basis of this evaluation is completion of a qualifying examination administered by the student's Advisory Committee.

Admission Requirements

Applicants are required to have an undergraduate GPA of at least 2.75.

A Master's degree in Rehabilitation Counseling or a closely-related field with a GPA of at least 3.5. (Note: Students who are entering with a non-Rehabilitation Counseling Master's degree program may be required to take leveling, or foundational courses as described below.)

Submission of Graduate Record Examination (GRE) scores (mandatory for all doctoral applicants).

Minimum of one year (at least two preferred) of post- Master's experience in rehabilitation counseling or a related field (program will alternatively consider extensive prior related experience and exceptional academic performance on an individual basis).

- At least three (3) positive recommendations attesting to the candidate's professional disposition and fitness for the profession, self-awareness and emotional stability, oral and written communication skills, cultural sensitivity and awareness, and potential for scholarship, professional leadership, and advocacy.
- Written statement of the applicant's objectives for completing a doctoral program; and
- A sample of the applicant's academic and/or professional writing. Final admissions decisions are the purview of the Department's faculty.

Note: For students applying to the Ph.D. Formal Option with a Master's or graduate degree that is not from a CORE- or CACREP-accredited rehabilitation counseling program, foundational rehabilitation counseling content and core counseling content courses may be required prior to, or concurrent with enrollment. Decisions about the need for foundational coursework are the purview of the Program faculty and will be made on an individual basis, based on review of the applicant's previous graduate coursework, review of

applicant's transcripts and course descriptions; previous graduate coursework may in some cases be substituted.

Foundational Coursework includes the following: (a) Foundations or Principles of Rehabilitation Counseling or Counseling, (b) Social and Cultural Diversity, (c) Human Growth and Development, (d) Career Theory and Development, (e) Individual and Group Counseling Theories and Models, (f) Assessment and Testing, (g) Research and Program Evaluation, (h) Psychosocial and Medical Aspects of Disability.

Degree Requirements

A typical course sequence is as follows:

1. Coursework from Professional Seminars in Advanced Rehabilitation Counseling may include:
 - CED 740 ADMINISTRATION, SUPERVISION AND PROGRAM EVALUATION IN REHABILITATION COUNSELING
 - CED 735 ADVANCED METHODS FOR TEACHING AND CONDUCTING RESEARCH IN COUNSELOR EDUCATION: FROM THEORY TO PRACTICE
 - CED 711 SEMINAR IN ADVANCED REHABILITATION PRACTICES AND PROCEDURES
 - CED 760 CONTEMPORARY PRACTICES IN REHABILITATION
 - CED 715 ADVANCED SEMINAR IN PSYCHOSOCIAL ASPECTS OF CHRONIC ILLNESS AND DISABILITY
 - CED 770 ADVANCED SEMINAR IN REHABILITATION COUNSELING THEORY, PRACTICE, AND EDUCATION
2. EDS 701 / CED 701 / IEC 701 : Seminar for EDSRC Leadership Personnel (1 credit each, 4 semesters) (4)
3. EDS 712 / CED 712 / IEC 712 : Seminar in EDSCE Professional Services (3)
4. EDS 720 / CED 720 / IEC 720 : Seminar in EDSCE Teacher Preparation (3)
5. EDS 721 / CED 721 / IEC 721 : Practicum in EDSCE Personnel Preparation (3-9)
6. EDS 767 / CED 767 / IEC 767 : Dissertation Residency Credit (≥ 4). EDS 767 is taken for a minimum of two credits per semester for two semesters (excluding summer terms) after successful completion of the qualifying examination.
7. CED 710 CLINICAL PRACTICUM IN COUNSELING (Doctoral Section)

Rehabilitation Counseling Area of Emphasis (15 credits)

Thematic Support Area (15 credits)

Research Tools (21 credits)

Required Practicum Experiences

Clinical practicum experiences are required of all doctoral students. As with the didactic portion of the curriculum, practica experiences are planned according to the individual backgrounds and needs of each student. Students are required to complete a 200-hour clinical practicum (40% of which must be direct client contact hours).

Required Internship Experience

In the course of their program plan, students will complete 600-clock hours of supervised internship, addressing three of the five following areas: Counseling, Supervision, Teaching, Research and Scholarship, Leadership and Advocacy. The internships are designed to ensure doctoral-level experience in counselor education areas including: campus and distance-based teaching, supervision, and clinical counseling. The nature and focus of the internship will be determined in consultation with each student individually.

Professional Involvement

We encourage and support student's professional development, with an emphasis on participation in the rehabilitation counseling profession at the national level through research, publication, and participation in national conferences and leadership opportunities in our national and regional rehabilitation counseling professional associations. We provide support to our students through research grants and teaching assistantships, and a number of funding opportunities that are available to our doctoral students through our graduate school.

Economics, MS

The M.S. in Economics is designed to introduce students to graduate-level study in economics. The M.S. in Economics provides a strong foundation in microeconomics, macroeconomics, and econometrics, in addition to allowing students to pursue some electives in their fields of interest.

More information about the MS in Economics is available at

<https://gatton.uky.edu/programs/masters/master-science-economics>

Admission Requirements

Applications are submitted online through the Graduate School, and must include:

1. A resumé
2. A one-to-two page personal essay about why you want to attend graduate school in economics
3. Two or three confidential letters of recommendation
4. Unofficial copies of your GRE scores, transcript, and TOEFL score (if required).

The recommended minimum prerequisite undergraduate preparation includes 6 hours of intermediate theory, 6 hours of statistics, and 6 hours of calculus.

Degree Requirements

1. A minimum of 30 hours of graduate credit courses.
 - a. The student must satisfactorily complete the following courses: ECO 590 INTRODUCTION TO QUANTITATIVE ECONOMICS I, ECO 601 ADVANCED MICROECONOMIC THEORY, ECO 602 MACROECONOMIC THEORY, ECO 603 RESEARCH METHODS AND PROCEDURES IN ECONOMICS, ECO 703 INTRODUCTION TO ECONOMETRICS I.
 - b. The student must also satisfactorily complete either: ECO 701 NEOCLASSICAL MICROECONOMIC THEORY or ECO 702 ADVANCED MACROECONOMIC THEORY and, one course in an elective area of the Ph.D. program.
 - c. Courses taken outside of the Department of Economics must be approved by the Director of Graduate Studies to count toward the 30 hour requirement.
2. Successful completion of a final examination.
3. Minimum average of grade B (a GPA of 3.0) in all courses attempted for graduate credit after being admitted to Graduate School. Students obtaining six quality points below a B average will be dropped by the department.

Economics, PhD

The Ph.D. program is designed to enable the graduate to contribute to economic research and policy making. The program is aimed at preparing students for careers in academia, government, and the private sector. To attain these objectives, the program is structured to provide the student with the appropriate knowledge, understanding, skills and abilities, including:

1. An understanding of economic theory;
2. Skill in the use of quantitative techniques, specifically mathematics and statistics;
3. An extensive exposure to the research, institutions, and issues in several fields;
4. Experience in the development of research projects throughout their entire program;
5. Research and writing skills that will lead to the publication of original research; and
6. Competence in communicating economic knowledge to broad and diverse audiences.

More information about the PhD in Economics is available at <https://gatton.uky.edu/programs/phd/phd-economics>

Admission Requirements

Applications are submitted online through the Graduate School, and must include:

1. A resume

2. A one-to-two page personal essay about why you want to attend graduate school in economics
3. Two or three confidential letters of recommendation
4. Unofficial copies of your GRE scores, transcript, and TOEFL score (if required).

Degree Requirements

1. Economic Theory. The student must demonstrate competence in economic theory as demonstrated by passing a departmental written examination in economic theory. This examination will be given twice a year, at the beginnings of the spring semester and the eight-week summer session. Students failing the examination will be given a second attempt; those failing on the second attempt will not be allowed to continue in the program. Minimum preparation for the written examination in economic theory can be achieved by taking the following core courses:

- ECO 601 ADVANCED MICROECONOMIC THEORY
- ECO 602 MACROECONOMIC THEORY
- ECO 701 NEOCLASSICAL MICROECONOMIC THEORY
- ECO 702 ADVANCED MACROECONOMIC THEORY

2. Statistics/Econometrics. The student must demonstrate competence in the area of statistics and econometrics. This competence may be demonstrated by satisfactory performance in the following courses:

- ECO 603 RESEARCH METHODS AND PROCEDURES IN ECONOMICS
- ECO 703 INTRODUCTION TO ECONOMETRICS I
- ECO 706 INTRODUCTION TO ECONOMETRICS II and
- ECO 707 RESEARCH SEMINAR IN ECONOMICS or ECO 790 TIME SERIES ANALYSIS

3. Elective Areas. All Ph.D. students must choose two fields of study approved by the student's Advisory Committee. The two fields may be chosen from the following: Environmental/Health Economics, Industrial Organization, International Economics, Labor Economics, Macroeconomics, Public Economics. Minimum course preparation for each field shall consist of at least two courses as determined by the student's Advisory Committee. In addition to the two chosen fields, the student is encouraged to take elective courses in other areas of economics, such as econometrics or economic theory, or in other disciplines such as Agricultural Economics, Finance, Marketing, Management, Mathematics, or Public Administration.

4. Supporting Work. At least nine hours of supporting course work must be selected. These courses must be approved by the student's Advisory Committee. This supporting work will allow the student to pursue more intensive study of one or both of the two chosen fields, or to pursue courses in other fields of economics. The supporting work cannot consist of 400 or 500 level courses, ECO 610 or ECO 611, ECO 652, or any of the core courses in economic theory (ECO 601, ECO 602, ECO 701, ECO 702, ECO 704, ECO 705) or econometrics (ECO 603, ECO 703, ECO 706). Supporting work can also be courses from other disciplines including Agricultural Economics, Finance, Mathematics, Statistics, or Public Policy with the approval of the Director of Graduate Studies.

5. Grades. Minimum average of grade B in all courses attempted for graduate credit after being admitted to

the Graduate School. Students obtaining six quality points below a B average will automatically be dropped by the department.

6. Qualifying Examinations

a. **Written Examination:** The written examination must be taken in one of the student's two elective fields as part of the requirements for candidacy for the Ph.D. degree. The choice of the field in which the student takes the exam should reflect the intended field in which the student is to write his or her dissertation. This examination is given twice a session. Fields may elect to require a paper in addition to an exam; this will be communicated to the students at the beginning of the academic year. The written examination is prepared and graded by specialists in the respective fields. In the event that the student fails the examination, the student's Advisory Committee determines the conditions which must be met before another examination is given. The minimum time between examinations is four months. Two failures to pass the written examination constitute failure of the qualifying examination.

b. **Oral Examination:** After passing the written qualifying examination, the Director of Graduate Studies will, on the advice of the Advisory Committee, schedule through the Graduate School an oral examination which will be administered by the Advisory Committee. The examination will ordinarily consist of the presentation and defense of a dissertation proposal.

7. **The Ph.D. Dissertation.** The dissertation will be based on original research on a significant topic. The dissertation will be defended in an oral examination.

Education - Instructional Systems Design, MSEDU

The Instructional Systems Design (ISD) area offers an online degree program designed for individuals who wish to develop their knowledge and skills in planning and designing instruction. Persons choosing this area are frequently preparing for instructional design responsibilities in business and industry, government, education, and various training organizations. This program does not require or lead to initial teacher certification.

- Plan A: 30 credit hours, with a thesis requirement
- Plan B: 36 credit hours, without a thesis requirement

Admission Requirements

Applicants are evaluated holistically, with attention paid to prior educational achievement and professional experience. In addition to the admission requirements set by the Graduate School, departmental requirements include a statement of professional goals, an autobiographical sketch, professional writing samples, and three letters of professional reference. Interviews are frequently requested. The GRE is not required for admission to the ISD program. All materials may be submitted through The Graduate School's online application process.

Degree Requirements

- Specific programs are planned with a faculty advisor subject to the approval of the Director of Graduate Studies. All students are required to complete:
 - An 18-hour common core including nine semester hours in the Department of Curriculum and Instruction.
 - At least 6 hours must be taken outside the College of Education.
- The Plan A (thesis) option includes 6 credit hours of electives and 6 credit hours of thesis credit.
- An additional 12 credit hours of electives are required for the Plan B (non-thesis) option.
- Plan A students must successfully defend a thesis; Plan B students must successfully complete a final exam.
- Students in Instructional Systems Design may elect to complete a graduate certificate, such as the departmental certificate in Distance Education, as part of their coursework.

<https://education.uky.edu/edc/isd/ms/>

Education - Literacy, MAEDU

Completion of the Master of Arts in Education with Literacy specialization fulfills the academic requirements for teacher certification as a P-12 literacy specialist within the Commonwealth of Kentucky. In addition to certification as a literacy specialist, successful degree completion can lead to rank change (Rank I or Rank II) within Kentucky's classification of teachers. The Literacy Specialist Endorsement P-12 with Master of Arts in Education program offers a variety of graduate-level courses, field experiences in local schools, and research opportunities with faculty. The combination of these classroom and experiential activities result in graduates who are prepared for the literacy challenges they may face in educational and community contexts. The program is delivered in a variety of formats including via distance learning, hybrid, and face-to-face courses.

Admission Requirements

Applicants are evaluated holistically, with attention paid to prior educational achievement and professional experience. In addition to the admission requirements set by the Graduate School, departmental requirements include a statement of professional goals, an autobiographical sketch, professional writing samples, and three letters of professional reference. Interviews are frequently requested. Applicants wishing to obtain teacher certification as a literacy specialist must already possess initial teacher certification. All materials may be submitted through The Graduate School's online application process.

Degree Requirements

The master's degree program requires 33 credit hours of coursework. Students may elect to complete a Plan A (thesis) or Plan B (non-thesis) option within the program. Curriculum plans for both Plan A and Plan B options may be found at this link: <https://education.uky.edu/edc/wp-content/uploads/sites/2/2017/08/Literacy-Specialist-Curriculum-Contract-Nov-2-2015-protected.pdf>

Plan A (thesis) students must successfully defend a thesis for program completion. Plan B (non-thesis) students must successfully defend a professional portfolio to complete the program.

Students in the Literacy program may elect to add a graduate certificate, such as the departmental certificate in Teaching in Culturally & Linguistically Diverse Classrooms, along with their required coursework. This certificate may result in additional credit requirements.

<https://education.uky.edu/edc/literacy/ma/>

Education - Secondary Education, MAEDU

The Master of Arts in Secondary Education with Initial Certification (MIC) is an intensive one calendar-year program which leads to both a master's degree and initial teacher certification for secondary education in Kentucky. The MIC may be pursued in one of two subject areas: English Education or Social Studies Education. This program is designed for students with a completed bachelor's degree in a content field in one of the following areas: English, history, a social science, or in secondary education. Students not having a degree in one of the above areas may be required to complete additional course work.

Specializations available:

- English Education
- Social Studies Education

Admission Requirements

In addition to the admission requirements set by the Graduate School, students must be admitted to the University of Kentucky's Teacher Education Program. That process involves compliance with admission requirements of the Kentucky Education Professional Standards Board (EPSB). Students meet state initial certification requirements while completing degree requirements. These requirements include:

- Cumulative undergraduate GPA of 2.75 or greater
- GPA of 2.75 or greater in major, minor, and support courses
- Minimum GRE scores: 150 (verbal), 143 (quantitative), and 4.0 (analytical).

- If students do not meet one or more of these cutoff scores, they may take the equivalent portion of the PRAXIS Core Academic Skills Test instead of retaking the GRE. The minimum PRAXIS scores for admission to the MIC are 156 (Reading), 150 (Math), and 162 (Writing).
- Resume
- Personal statement
- Writing sample
- Three letters of recommendation
- Students may need to complete additional undergraduate coursework to meet degree and certification requirements. Consult the MIC Director for specific information regarding degree requirements and the dual application process.

Degree Requirements

The master's degree program requires 31 credit hours of coursework, which includes one semester of student teaching.

Specific course requirements for English Education may be found here: <https://education.uky.edu/edc-programs/secondary-english-mic/>

Specific course requirements for Social Studies Education may be found here: <https://education.uky.edu/edc/mic/social-studies/>

Information on the overall MIC program may be found here: <https://education.uky.edu/edc/mic/>

Education - Special Education, EDS

Specialist Degree (Ed.S.) programs are individually planned for an in-depth study in an area of special education. In addition to coursework, the program requires a research project with a written product for completion. On occasion, students seeking a doctorate degree elect to first earn a specialist degree in order to gain research experiences prior to conducting a dissertation. Other individuals use the specialist degree program to meet Rank I teacher certification requirements.

Additional individual objectives may be appropriate for this degree. Individuals interested in this program should contact the department's Director of Graduate Studies for Special Education.

Admission Requirements

Program applicants must meet the following prerequisites:

1. Completion of a master's degree,
2. A 3.4 GPA or higher on all graduate work,

3. Meet the requirements for a teaching certificate or have credentials appropriate to the field of specialization, and
4. Have completed at least 30 semester hours in courses in education (graduate and undergraduate).

Degree Requirements

The student must earn a minimum of 30 credit hours of graduate work beyond the master's degree, of which at least 15 must be in courses numbered 600 or above.

A departmental committee is responsible for helping students plan individual programs. The program should contribute to specialization in a field.

The student must complete an independent research project (equal to 3 but not to exceed 6 credit hours) and submit a written report, a copy of which is to be filed with the department directing the research.

With the approval of the Director of Graduate Studies and the Dean of the Graduate School, the student may transfer a maximum of 9 credit hours earned beyond the master's degree from an accredited institution that is approved to offer work above the master's level.

The final examination required of all candidates is administered by an examining committee consisting of at least three qualified members recommended by the adviser and the Director of Graduate Studies and appointed by the Dean of the Graduate School.

<https://education.uky.edu/edsrc/eds/specialist/>

Education and Counseling Psychology - Counseling Psychology, MSEDU

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology. Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

The Master of Science in Education degree is offered by the Department for individuals who will not meet state licensure (Licensed Psychological Associate [LPA] or Licensed Professional Counselor [LPC]) requirements in counseling or school psychology immediately upon completion. Individuals who are interested in specializing in educational psychology, human development, measurement, or research in education may obtain this degree.

Admission Requirements

Applicants to the M.S. Ed. Degree program leading to certification in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the M.S. Ed. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students are selected for these programs based on their undergraduate grade point average, Graduate Record Examination scores, letters of recommendation, a personal statement describing their selection of a career in school or counseling psychology, a writing sample, and, in the case of school psychology, a personal interview. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

The educational psychology program, planned in consultation with an advisor, is flexible and tailored to individual needs. It consists of 36 hours of course work (including a 3-hour paper) or 30 hours of course work plus a 6-hour thesis. The work completed for this degree with an emphasis in either counseling or school psychology is applicable toward licensure in either counseling or school psychology, respectively, but does not fulfill state certification requirements. In these areas no realistic thesis option is available. The counseling program prerequisites include psychological testing and abnormal psychology.

Education and Counseling Psychology - Counseling Psychology, PhD

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology. Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional

commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

The Ph.D. program is offered in the specialty areas of counseling psychology, educational psychology, and school psychology under one departmental program. The Doctor of Philosophy programs in Counseling Psychology and in School Psychology are accredited by the American Psychological Association through its Office of Program Consultation and Accreditation (750 First Street, NE, Washington, DC 20002-4242, phone: 202.336.5500). A full-time, supervised one-year internship is required for both areas. Various concentrations are possible within the Ph.D. program. Representative of these are as follows: (a) learning, cognition, and curriculum design; (b) human development and social processes; (c) counseling psychology; (d) measurement, evaluation, and research design; and (e) school psychology.

Admission Requirements

Applicants to the Ph.D. Degree program in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the Ph.D. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students with prior graduate work at the masters or specialist degree will also be considered for admission to advanced graduate status and, in the case of counseling psychology, are preferred. Students are selected for this program based on their undergraduate and prior graduate grade point average, Graduate Record Examination scores, letters of recommendation, personal statements describing their selection of a career in their chosen areas, writing samples, and personal interviews. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

Requirements to be added.

Education and Counseling Psychology - Educational Psychology, PhD

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology. Specializations are designed to provide students with both a

background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

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Admission Requirements

Applicants to the Ph.D. Degree program in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the Ph.D. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students with prior graduate work at the masters or specialist degree will also be considered for admission to advanced graduate status and, in the case of counseling psychology, are preferred. Students are selected for this program based on their undergraduate and prior graduate grade point average, Graduate Record Examination scores, letters of recommendation, personal statements describing their selection of a career in their chosen areas, writing samples, and personal interviews. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

Year 1: Partial completion of required coursework-18-21 hours of formal coursework, including

- first-year doctoral seminar (3 hours)
- introduction to educational psychology class (3 hours)
- human lifespan development class (3 hours)
- one development and/or learning theories class (3 hours)
- two to three research methods classes (6-9 hours)

Selection of EDP members of Advisory Committee. Meeting with Advisory Committee to discuss program goals and objectives. Reflection and discussion with advisor regarding the independent study writing topic and research portfolio. Attendance at professional meetings and departmental colloquia.

Year 2: Continued progress on completion of required coursework-21 hours of formal coursework, including

- multicultural psychology (3 hours)
- one development and/or learning theories class (3 hours)
- two classes in area of specialization (6 hours)
- two research methods classes (6 hours)
- independent study writing project with major professor (3 hours)

Selection of full Advisory Committee (by fall of Year 2). Fulfillment of teaching requirement (including corresponding enrollment in EDP 782). Progress toward completion of research portfolio. Reflection and discussion with Advisory Committee regarding the proposed internship. Internship proposed to Committee. Presentation at professional meetings and departmental colloquia.

Year 3: Completion of required coursework-18-21 hours of formal coursework, including

- two to three research methods classes (6-9 hours)
- one development or learning theories class (3 hours)
- one class in area of specialization (3 hours)
- internship in educational psychology (3-6 hours)

Completion of research portfolio and internship. Successful completion and oral defense of qualifying examination. Presentation at professional meetings and departmental colloquia. Progress on converting the empirical research study from research portfolio into a publishable manuscript.

Year 4: No formal coursework, with the exception of continued enrollment in EDP 767, Dissertation Residency Requirement. Submission of empirical study to refereed journal. Completion and defense of Dissertation Proposal. Permission obtained from Institutional Review Board to conduct research. Substantial progress on Dissertation data collection. Presentation at professional meetings and departmental colloquia.

Year 5: No formal coursework, with the exception of continued enrollment in EDP 767, Dissertation Residency Requirement. Completion and defense of Dissertation. Submission of dissertation for publication in refereed journal(s).

Education Sciences, PhD

The Interdisciplinary Ph.D. in Education Sciences (major code: EDSC) program is designed for individuals seeking careers in educational research. Graduates of the program are prepared to meet the growing national need for educators who are well trained in methodological issues in education research. This Ph.D. program prepares individuals who will have careers in research universities, educational research labs and corporations, and research groups within education agencies.

All EDSC students will be encouraged to apply for 20-hour per week research assistantships on grant supported projects in the College of Education and other units at the University of Kentucky. In addition to coursework, students will be expected to attend local, state, or national professional conferences during the first and second years of their programs. All students will be expected to present their research at professional conferences by their third year in the program. EDSC doctoral students are expected to submit manuscripts to professional journals and accomplish refereed publications during their doctoral study. Presentations and publications may be scholarly works with a single author or groups of co-authors.

Curriculum

EDSC is a rigorous doctoral program that requires year-round, full-time study. Students are encouraged to apply for admission for the Fall semester. Students seeking Spring admission should contact the program

DGS to determine if the strand they are interested in allows for Spring admissions. Students will be required to complete a set of core courses in research methods and education policy; in addition, students will then be able to follow a particular "strand" of courses in an area of specialization. All students will be involved in educational research projects throughout their time in the program.

EDSC doctoral students will be required to designate at the time of application the strand that they would like to complete. These include advanced concentrations in the following:

- Curriculum and Instruction
- Educational Leadership Studies
- Educational Policy Studies: Educational Evaluation and Policy
- Educational Policy Studies: Philosophical and Cultural Inquiry
- Health education
- Physical education
- Quantitative and Psychometric Methods
- STEM education

<https://education.uky.edu/research/phd/>

CURRICULUM AND INSTRUCTION

- The Ph.D. in Interdisciplinary Education Sciences - Curriculum & Instruction strand prepares individuals for careers in educational research. Graduates of the Curriculum & Instruction strand of the Education Sciences program pursue a variety of career opportunities, including becoming university faculty in Curriculum & Instruction departments; assuming advanced leadership positions in schools, districts, and state governments; or working for curriculum development companies or in private consulting, among others.
- Within the Curriculum & Instruction strand, students may specialize in an educational content area within Curriculum & Instruction, such as Instructional Systems Design, Literacy education, or Social Studies education, or they may study Curriculum & Instruction more broadly.

Admission Requirements

- Applicants are evaluated holistically, with attention paid to prior educational achievement and professional experience. Interviews are frequently requested. All materials may be submitted through The Graduate School's online application process. Applicants must submit the following materials to be considered for admission:
- GRE scores
- Transcripts from all prior institutions of higher education

- Personal statement
- CV or resume
- Writing sample from prior academic work
- 3 letters of recommendation
- Applicants are encouraged, but not required, to submit a departmental application for teaching or research assistantships along with their application for program admission.

Degree Requirements

- Students must take a minimum of 36 credit hours of coursework prior to the qualifying examination and the dissertation. This coursework is divided into the following categories:
- A minimum of 12 credits of research methodology coursework.
- A program core of 12 credits, including a proseminar, coursework in curriculum theory, and coursework in multicultural issues in education
- A specialization core of 12 credits in Instructional Systems Design, Literacy Education, Social Studies Education, or Curriculum & Instruction.
- Students are encouraged to take elective courses in departments outside of Curriculum & Instruction.

EDUCATIONAL LEADERSHIP STUDIES

- The Doctor of Philosophy (PhD) Educational Leadership strand prepares academicians and university faculty in the study of leadership within educational contexts.
- The Doctor of Philosophy (PhD) Educational Leadership strand is a cohort-based program with online courses, qualifying examinations, and dissertation defense.
- The degree consists of 42 minimum course credit hours and a minimum of 4 credits of dissertation residency (does not need to be completed in Kentucky).

Admission Requirements

- Earned Masters, from a fully accredited institution, with a 3.5 GPA on a 4.0 scale.
- Transcripts from previous post-secondary institutions.
- Professional Resume
- Personal Statement

- Diversity, Equity & Inclusion Statement
- 3 Recommendations, with at least one academic who has earned a doctoral degree and serves in an academic institution and one professional to speak to your creativity, ability to navigate systems.
- On-demand writing sample
- Completed graduate-level basic statistics course by August 15 of the semester of program start.

Degree Requirements

- 42 minimum credits of coursework, 4 minimum credits of dissertation residency. Minimum of 46 credits total.
- 14 courses (5 leadership; 5 research; 4 electives) of pre-dissertation coursework typically earned over 7 semesters including summer.
- Qualifying examination after completion of 42 credit hours of coursework
- Student must remain enrolled in EDL 767 Dissertation Residency Credit from the semester they sit for their Qualifying Examination through semester they defend their dissertation.
- Final dissertation defense.

EDUCATIONAL POLICY STUDIES: EDUCATIONAL EVALUATION AND POLICY

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A masters degree or equivalent level of coursework
- A 500-word statement of purpose describing the student's intellectual and professional goals for completing the program. Applicants are advised to clearly indicate the areas of coursework and research they wish to pursue.
- Four letters of reference with at least two from referees familiar with the students' academic work
- Resume or Curriculum Vitae
- Writing sample demonstrating academic writing (e.g. chapter of master's thesis, course paper, scholarly essay)
- Application Deadlines vary by department, consult the EDSC webpage for details.

- GRE is not required for Specialization in Evaluation and Education Policy or Philosophical and Cultural Inquiry

Degree Requirements

Students are required to complete 12 hours of core research classes

- One three-hour course in quantitative research methods.
- One three-hour course in qualitative research methods.
- One additional and complementary three-hour course in either quantitative or qualitative methods to form a "core" of six hours in quantitative or qualitative methods.
- One three-hour course in advanced studies in research methods. The advanced course may be in any area, including internships and academic writing, and will typically include "Advanced" in the course title. This course is to be selected by the advisory committee to meet the specific research training needs of the student.

The EDSC-Educational Evaluation & Policy Specialization includes the above 12 hours of core research and

- EPE 601 PROSEMINAR
- EPE 619 SURVEY RESEARCH METHODS IN EDUCATION (SUBTITLE REQUIRED)
- EPE 620 TOPICS AND METHODS OF EVALUATION
- One additional three-hour course in advanced research methods
- One three-hour course in policy research
- One three-hour course in contextual studies
- Nine hours of electives chosen in conjunction with the students Advisory Committee.

A student's program of study may vary from this structure with approval from their program committee.

<https://education.uky.edu/epe/>

EDUCATIONAL POLICY STUDIES: PHILOSOPHICAL AND CULTURAL INQUIRY

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A masters degree or equivalent level of coursework

- A 500-word statement of purpose describing the student's intellectual and professional goals for completing the program. Applicants are advised to clearly indicate the areas of coursework and research they wish to pursue.
- Four letters of reference with at least two from referees familiar with the students' academic work
- Resume or Curriculum Vitae
- Writing sample demonstrating academic writing (e.g. chapter of master's thesis, course paper, scholarly essay)
- Application Deadlines vary by department, consult the EDSC webpage for details.
- GRE is not required for Specialization in Evaluation and Education Policy or Philosophical and Cultural Inquiry

Degree Requirements

Students are required to complete 12 hours of core research classes

- One three-hour course in quantitative research methods.
- One three-hour course in qualitative research methods.
- One additional and complementary three-hour course in either quantitative or qualitative methods to form a "core" of six hours in quantitative or qualitative methods.
- One three-hour course in advanced studies in research methods. The advanced course may be in any area, including internships and academic writing, and will typically include "Advanced" in the course title. This course is to be selected by the advisory committee to meet the specific research training needs of the student.

The EDSC-Philosophical and Cultural Inquiry Specialization includes the above 12 hours of core research and

- EPE 601 PROSEMINAR
- One three-hour course in philosophical studies
- One three-hour course in cultural studies
- One three-hour course in historical studies
- Six hours of electives focused on philosophical or cultural inquiry outside the College of Education
- Nine hours of electives chosen in conjunction with the students Advisory Committee.

A student's program of study may vary from this structure with approval from their program committee.

<https://education.uky.edu/epe/>

HEALTH EDUCATION

Customize a health education doctorate (Ph.D.) to follow your passion for a career in higher education. Our program will prepare you for research-focused faculty positions or careers that involve conducting research on behalf of community health agencies and organizations, corporations, or health-related governmental agencies. You will explore both individual and population health, focusing on evidence-based strategies, application of health behavior theory, and research inquiry across a variety of health topics and target populations.

In the health education Ph.D. program at the University of Kentucky, you will:

- develop an understanding of the full spectrum of health education, as well as an in-depth knowledge of one specific area or discipline, such as college health promotion, youth health promotion, substance use prevention, community-based research/interventions, health inequities, and health policy
- participate in guided research projects designed to prepare you for conducting your own research
- conduct independent research aligned with your career goals as you develop scientific expertise
- gain teaching experience at the university level, preparing master's students for careers in health education
- write and publish research in high-quality journals
- collaborate with faculty on research and service projects
- have opportunities for multidisciplinary work within health education, health promotion, communication, social sciences, and/or other public health disciplines and topics.

With small class sizes in our health education graduate program, you will receive individual attention. We have a thriving graduate program in the Department of Kinesiology and Health Promotion and place the highest value on ethics, professionalism, and interdisciplinary work.

The PhD program utilizes a mentor-based admission process. Therefore, students are strongly encouraged to identify a faculty member with whom they wish to work prior to applying to the program.

<https://www.uky.edu/academics/doctoral/education-sciences-health-education-graduate>

Admission Requirements

- A master's degree or 30 semester hours of approved graduate course work with a 3.0 GPA.
- GRE: Not required
- CV
- Personal Statement: Statement of your professional aspirations and explain how you believe graduate study at the University of Kentucky will enhance your ability to achieve those professional goals. In your statement, provide information about your background, research skills and experiences, personal and professional achievements, and educational, work or life experiences that influenced you and your life goals.

- Writing Sample: Students who have not written a Master's level thesis will be required to submit an example of their research writing. A literature review or project from a completed class are acceptable examples for submission for application. Special circumstances will be considered at the discretion of the applicant's designated potential advisor.
- Four letters of recommendation: At least two must be from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

Degree Requirements

Our Ph.D. degree with specialization in Health Education requires students to complete a minimum of 42 hours of course work. The doctoral degree requires students to complete a core of 9-12 hours of health promotion courses, 12 hours of research/statistics/design courses plus supporting electives for a total of at least 42 hours. Students, with the approval of their advisory committee, select elective course work that will enhance their health education and health promotion knowledge and skills as well as their research skills. Additional information, including possible pre-requisites and electives, can be found on the departmental website: <https://education.uky.edu/khp/grad/>

The general structure of the coursework needed to complete the Ph.D. in Education Sciences with advanced concentration in Health Education course requirements is as follows:

- Pre-requisite courses (based on review of transcripts)
- Health Promotion Core Courses (9 hours)
- Research Methods/Stats Courses (12 hours minimum)
- Cognate Area (9 hours minimum)
- Independent Study/Research (6 hours minimum)
- Electives (6 hours minimum)
- Dissertation Hours (4 hours minimum)

PHYSICAL EDUCATION SPECIALIZATION

Searching for a physical education graduate school to best fit your interests? Customize our physical education doctorate program (Ph.D.) to follow your passions. You will gain an understanding of the full spectrum of physical education, along with in-depth knowledge of one specific area or disciplines such as comprehensive school physical activity programs, behavior management in activity settings, and motivating individuals to be active. Both online and face-to-face options available.

In the physical education doctorate program (Ph.D.) at the University of Kentucky, you will:

- participate in guided research projects designed to prepare you for conducting your own research
- conduct independent research as you develop scientific expertise

- gain teaching experience at the university level, preparing bachelor's and master's students for careers in physical education and health teaching
- write and publish research in high-quality journals
- collaborate with faculty on research and service projects
- network with physical education teacher educators from across the country and around the world

You will develop extensive subject-matter expertise and discover potential research topics in courses covering physical education, physical activity promotion, epidemiology, sociology, behavioral science, and public health.

Admission Requirements

- A master's degree or 30 semester hours of approved graduate course work with a 3.0 GPA.
- GRE: Not required
- CV
- Personal Statement: Statement of your professional aspirations and explain how you believe graduate study at the University of Kentucky will enhance your ability to achieve those professional goals. In your statement, provide information about your background, research skills and experiences, personal and professional achievements, and educational, work or life experiences that influenced you and your life goals.
- Writing Sample: Students who have not written a Master's level thesis will be required to submit an example of their research writing. A literature review or project from a completed class are acceptable examples for submission for application. Special circumstances will be considered at the discretion of the applicant's designated potential advisor.
- Four letters of recommendation: At least two must be from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

With small class sizes in our physical education graduate programs, you will receive individual attention. We have a thriving graduate program in the Department of Kinesiology and Health Promotion and place the highest value on ethics, professionalism, and interdisciplinary work.

Degree Requirements

The PhD program has a required core of classes and sample of electives. The student may have an emphasis in specific areas of education. Additional information, including possible pre-requisites and electives, can be found on the departmental website: <https://education.uky.edu/khp/grad/>

Required Research Methods and Statistics Core (12 hours)

Includes a minimum of 3 hours of qualitative and 3 hours of quantitative analysis.

A total of nine hours must be chosen from either quantitative or qualitative courses. Three additional hours of advanced study are to be selected by the advisory committee to meet the specific research and statistical training needs of the student.

Advanced Strand (18 hours)

- KHP 601 TEACHING EFFECTIVENESS AND LEADERSHIP IN KINESIOLOGY AND HEALTH EDUCATION
- KHP 602 PROMOTING PHYSICAL ACTIVITY FOR YOUTH
- Two additional courses in KHP or related area (6+ hours)

Other related courses including research courses (6+ hours)

- KHP 695 INDEPENDENT STUDY IN KINESIOLOGY AND HEALTH PROMOTION
- KHP 782 INDEPENDENT RESEARCH IN KINESIOLOGY AND HEALTH PROMOTION

Dissertation (2+ hours)

- KHP 767 DISSERTATION RESIDENCY CREDIT (2 hrs/semester after passing qualifying exams)

QUANTITATIVE AND PSYCHOMETRIC METHODS

The primary objective of the QPM program is to promote the development of advanced quantitative and psychometric knowledge and skills that allow program graduates to function as competent independent researchers or scientists who can innovatively and effectively carry out research design and data analysis for all kinds of empirical purposes.

Admission Requirements

- Degrees
 - For admission of exceptional undergraduate students. Undergraduate degrees in STEM, social sciences, behavioral sciences, education sciences, and other fields with adequate coursework in mathematics and/or statistics.
 - Master degrees in STEM, social sciences, behavioral sciences, education sciences, and other fields with adequate coursework in mathematics and/or statistics.
- GPA (no minimum standard)
- GRE General (no minimum standard)
- TOEFL (for international students, UK minimum standard)
- Personal statement
- Three (3) reference letters

Degree Requirements

- 36 credit hours of coursework
- Common Research Methods and Statistics Core (12 hours)
- Interdisciplinary Core (6 hours)
- Quantitative and Psychometric Methods (QPM) Core (18 hours)
- Internship (optional)
- Qualifying Exam (after completion of coursework)
- Dissertation Proposal Defense
- Final Dissertation Oral Defense

<https://education.uky.edu/edp/qpm/>

STEM EDUCATION

The Education Sciences Interdisciplinary Ph.D. with an emphasis in STEM Education is an intensive program designed to prepare future researchers, teacher educators, and researcher-practitioners to meet the national call for more individuals with heightened scholarly expertise in STEM Education. The Education Sciences Interdisciplinary Ph.D. program requires study throughout the year. Full-time study is strongly encouraged; however, part-time study is a possible alternative, particularly for professional educators.

Admission Requirements

- GRE scores (preferably from within the past 10 years - if you are a KY teacher applying for rank change, GRE must be within the last 5 years)
- TOEFL or IELTS (for international students whose native language is not English)
- GPA requirement: 2.75 undergraduate; 3.0 Graduate work
- Official transcripts: official transcripts from all post-secondary institutions attended
- A short statement about your career goals and interests
- Writing sample (e.g., paper written for coursework requirement, grant application, publication)
- Three letters of recommendation (the online system will email your references to submit their letters)
- Interview with STEM Ed faculty specializing in your area of interest (Interview will be scheduled upon completion of application materials)

- Onsite writing sample prior to interview

Degree Requirements

- Total credit hours - 45 credit hours plus qualifying exam and dissertation residency
- 12 hours education research methods
- 15 hours STEM Education core
- 9 hours STEM Education methods
- 9 hours electives
- Electives can be graduate level coursework in any discipline, but it is recommended that they are at the 600 level or above. (optional)

<https://education.uky.edu/stem/graduate/phd/>

Educational and Counseling Psychology, MSEDU

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology. Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

The Master of Science in Education degree is offered by the Department for individuals who will not meet state licensure (Licensed Psychological Associate [LPA] or Licensed Professional Counselor [LPC]) requirements in counseling or school psychology immediately upon completion. Individuals who are interested in specializing in educational psychology, human development, measurement, or research in education may obtain this degree.

Admission Requirements

Applicants to the M.S. Ed. Degree program leading to certification in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the M.S. Ed. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students are selected for these programs based on their undergraduate grade point average, Graduate Record Examination scores, letters of recommendation, a personal statement describing their selection of a career in school or counseling psychology, a writing sample, and, in the case of school psychology, a personal interview. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

The educational psychology program, planned in consultation with an advisor, is flexible and tailored to individual needs. It consists of 36 hours of course work (including a 3-hour paper) or 30 hours of course work plus a 6-hour thesis. The work completed for this degree with an emphasis in either counseling or school psychology is applicable toward licensure in either counseling or school psychology, respectively, but does not fulfill state certification requirements. In these areas no realistic thesis option is available. The counseling program prerequisites include psychological testing and abnormal psychology.

Educational Leadership, EDD

- The Doctor of Education (EdD) in Educational Leadership Studies prepares scholar-practitioners to assume leadership roles in diverse educational settings.
- The Doctor of Education (EdD) is an executive, cohort-based program with online courses, qualifying examinations, and dissertation defense.
- The degree consists of 42 minimum course credit hours and a minimum of 4 credits of dissertation residency (does not need to be completed in Kentucky).
- Mixed Methods Action Research (MMAR) design utilized for the dissertation.
- Applicants who plan to seek administrator certification (e.g., school principal, superintendent) can use up to two electives to partially fulfill requirements. However, they must meet all additional requirements imposed by the Kentucky Educational Professional Standards Board.

Admission Requirements

- Earned Masters, from a fully accredited institution, with a 3.5 GPA on a 4.0 scale.
- Transcripts from previous post-secondary institutions.
- Professional Resume
- Personal Statement

- Diversity, Equity & Inclusion Statement
- 3 Recommendations, with at least one academic from practicing scholar, one leadership based from practitioner.
- On-demand writing sample Completed graduate-level basic statistics course by August 15 of the semester of program start.

Degree Requirements

- 42 minimum credits of coursework, 4 minimum credits of dissertation residency. Minimum of 46 credits total.
- 16 courses (eleven 3-credit hour; three 1-credit hour required, two 3-credit hour electives) of pre-dissertation coursework typically earned over 8 semesters including summer.
- Qualifying examination utilizing the MMAR framework.
- Student must remain enrolled in EDL 767 Dissertation Residency Credit from the semester they sit for their Qualifying Examination through semester they defend their dissertation.
- Final dissertation defense.

Educational Leadership, EDS

- The Specialist in Education (EdS) is a flexible, online degree program designed for educators to advance their careers in leadership of learning systems. The degree consists of 30 credit hours of leadership courses amongst 3 tracks. The courses throughout the program are available online and available to educators both in Kentucky and throughout the world. Kentucky students in the EdS program may achieve either Rank II or Rank I designations through the Education Professional Standards Board.
- Completion of the Teacher Leadership track leads to a letter of eligibility for the Teacher Leader Endorsement from the Education Professional Standards Board.
- Completion of the Principal track leads to a letter of eligibility for the Advanced Educational Leadership Certification from the Educational Professional Standards Board.
- A general educational leadership track (non-licensure) is also available for students outside Kentucky and those choosing a non-licensure option.

Admission Requirements

- Earned Masters, preferably education-based, from a fully accredited institution with a 3.0 GPA on a 4.0 scale.
- Transcripts from previous post-secondary institutions

- Professional Resume
- Personal Statement
- Writing Sample
- (If pursuing licensure) A copy of a valid K-12 teaching certificate
- (If pursuing licensure) Minimum required years of teaching experience
- (If Principal track) 2 Recommendations, including one from a district-level administrator

Degree Requirements

- 30 Credits, 10 courses, typically earned over 5 semesters including summer.
- Teacher Leader track: 15 credits, 5 Course, Core + 15 credit, 5 course electives.
- Principal track: 24 credits, 8 course, Core + 6 credit electives.
- Portfolio-based capstone final defense

Educational Leadership, MED

- The Masters of Educational Leadership (MEd) is a flexible, online degree program designed for educators to advance their careers in leadership of learning systems. The degree consists of 30 credit hours of leadership courses amongst 3 tracks. The courses throughout the program are available online and available to educators both in Kentucky and throughout the world. Kentucky students in the Masters of Educational Leadership may achieve either Rank II or Rank I designations through the Education Professional Standards Board.
- Completion of the Teacher Leadership track leads to a letter of eligibility for the Teacher Leader Endorsement from the Education Professional Standards Board.
- Completion of the Principal track leads to a letter of eligibility for the Advanced Educational Leadership Certification from the Educational Professional Standards Board.
- A general educational leadership track (non-licensure) is also available for students outside Kentucky and those choosing a non-licensure option.

Admission Requirements

- Earned Bachelors, preferably education-based, from a fully accredited institution with a 3.0 GPA on a 4.0 scale.
- Transcripts from previous post-secondary institutions

- Professional Resume
- Personal Statement
- Writing Sample
- (If pursuing licensure) A copy of a valid K-12 teaching certificate.
- (If pursuing licensure) Minimum required years of teaching experience
- (If Principal track) 2 Recommendations, including one from a district-level administrator

Degree Requirements

- 30 Credits, 10 courses, typically earned over 5 semesters including summer.
- Teacher Leader track: 15 credits, 5 Course, Core + 15 credit, 5 course electives.
- Principal track: 24 credits, 8 course, Core + 6 credit electives.
- Portfolio-based capstone final defense

Educational Policy Studies, Measurement, and Evaluation, EDD

The Ed.D. program in Educational Policy Studies, Measurement, and Evaluation (EPME) provides advanced study for those who seek careers in the administration or evaluation of educational programs in schools, colleges, or other institutional settings. Ed.D. candidates may pursue a variety of research interests including but not limited to institutional research and assessment, educational measurement and evaluation, P-12 educational policy issues, post-secondary education, comparative education, and community/continuing education issues.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A statement of purpose describing the student's intellectual and professional goals for completing the program. Applicants are advised to clearly indicate the areas of coursework and research they wish to pursue.
- Four letters of reference with at least two from referees familiar with the students' academic work
- Resume or Curriculum Vitae

- Writing sample demonstrating academic writing (e.g., chapter of masters thesis, course paper, scholarly essay)
- Rolling Admission, Apply Anytime.

Degree Requirements

- 43 Credit hours or equivalent preparation meeting UK requirements for residency prior to a qualifying exam for doctoral candidacy and a dissertation.
- All EPE students are required to take EPE 601 Proseminar (1 credit hour) during their first semester of study in the department.
- All EPME doctoral students build a program of study consisting of a minimum of 15 hours in a core area of concentration, at least 9 hours of research, and the rest of their hours in supporting coursework chosen in consultation with their advisory committee. Students are encouraged to take multiple courses in contextual studies in education and to take supporting coursework both inside and outside the College of Education.
- A student's program of study may vary from this structure with approval from their program committee.
- The EdD qualifying exam consists of two parts. 1) A literature review building a rationale for a compelling problem of practice must be accepted by the advisory committee followed by 2) the defense of a full research proposal investigating that problem of practice. The defense of proposal represents the official qualifying exam.
- The EdD dissertation requirements are the same as those for the PhD. EdD candidates are encouraged to consider multiple stakeholders and to contextualize their study in a new or emerging problem of practice.

Education.uky.edu/EPE

Educational Policy Studies, MSEDU

The M.S. in Educational Policy Studies is designed for students who are interested in examining education policy through contextual and analytical lenses. These perspectives include: historical and philosophical, cultural and comparative, or social and political. This degree also provides students with a core suite of policy analysis tools, including courses in quantitative and qualitative research methods. Students in this program will be prepared for a variety of professional and academic placements, including policy analysis, K-16 professional advancement, or further doctoral study.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A 250 word statement of purpose describing the student's intellectual and professional goals for completing the program
- Two letters of reference with at least one from a referee familiar with the students' academic work
- Resume or Curriculum Vitae

Applications are reviewed on a rolling basis; apply anytime.

Degree Requirements

- The program requires 31 hours of coursework culminating in an individualized master's exam during the final semester.
- All EPE students are required to take EPE601 Proseminar (1 credit hour) during their first semester of study in the department.
- Core Classes include EPE 602 Social Policy Issues or 661 Sociology of Education, EPE640 Philosophy of Education, and EPE555 Comparative Education or EPE665 Education and Culture
- Choice of Concentration (9 credit hours chosen in consultation with the student's advisor)
 - Historical & Philosophical (e.g., EPE 628, EPE 651, EPE 652, EPE 653)
 - Cultural & Comparative (e.g., EPE 554, EPE 555, EPE 667)
 - Social & Political (e.g., EPE 525, EPE 603, EPE 661, EPE 670, EPE 675)
- Research Methods & Statistics: (minimum 9 credit hours)
 - One Research Methods/Evaluation Course (e.g., EPE 620, EPE 663, EPE 797)
 - One Statistics Course (e.g., EPE 557, EPE 558, EPE 660)
 - One Additional Course (e.g., any of above or EPE 522, EPE 619, EPE 621, EPE 763)
- Elective Course (3 credit hours of any elective chosen in consultation with advisor)
- A student's program of study may vary from this structure if they receive approval from their major advisor.
- Students may include an EPE graduate certificate in Research Methods or Comparative & International Education as part of their MS EPS program.

Education.uky.edu/EPE

Educational, School, and Counseling Psychology - School Psychology, PhD

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology. Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

The Ph.D. program is offered in the specialty areas of counseling psychology, educational psychology, and school psychology under one departmental program. The Doctor of Philosophy programs in Counseling Psychology and in School Psychology are accredited by the American Psychological Association through its Office of Program Consultation and Accreditation (750 First Street, NE, Washington, DC 20002-4242, phone: 202.336.5500). A full-time, supervised one-year internship is required for both areas. Various concentrations are possible within the Ph.D. program. Representative of these are as follows: (a) learning, cognition, and curriculum design; (b) human development and social processes; (c) counseling psychology; (d) measurement, evaluation, and research design; and (e) school psychology.

Admission Requirements

Applicants to the Ph.D. Degree program in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the Ph.D. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students with prior graduate work at the masters or specialist degree will also be considered for admission to advanced graduate status and, in the case of counseling psychology, are preferred. Students are selected for this program based on their undergraduate and prior graduate grade point average, Graduate Record Examination scores, letters of recommendation, personal statements describing their selection of a career in their chosen areas, writing samples, and personal interviews. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

Area A: Psychological Foundations (24 semester hours):

Biological Aspects of Behavior (3 hrs.)

- PGY 627 PROSEMINAR IN PHYSIOLOGICAL PSYCHOLOGY / PSY 627 PROSEMINAR IN PHYSIOLOGICAL PSYCHOLOGY

Human Learning, Cognitive & Affective Aspects of Behavior (9 hrs.)

- EDP 600 LIFE SPAN HUMAN DEVELOPMENT AND BEHAVIOR

- EDP 603 HUMAN COGNITIVE DEVELOPMENT
- EDP 614 MOTIVATION AND LEARNING

Social Aspects of Behavior (3 hrs.)

- EDP 513 SOCIAL ASPECTS BEHAVIOR

Individual Differences (6 hrs.)

- EDP 669 DIAGNOSTIC CLASSIFICATION IN SCHOOL PSYCHOLOGY
- EDP 616 MULTICULTURAL PSYCHOLOGY or PSY 779 TOPICAL SEMINAR IN SOCIAL PSYCHOLOGY

History & Systems of Psychology (3 hrs.)

- EDP 533 HISTORY AND SYSTEMS OF PSYCHOLOGY

Area B: Scientific Foundations (15 semester hours):

- EDP 558 GATHERING, ANALYZING & USING EDUC DATA
- EDP 656 METHODOLOGY OF EDUCATIONAL RESEARCH
- EDP 660 RESEARCH DESIGN AND ANALYSIS IN EDUCATION
- EDP 679 INTRODUCTION TO MEASUREMENT THEORY AND TECHNIQUES
- Approved Elective (EPE 620 ; EPE 621 ; EDS 633 ; EDP 711 ; EPE 763)

Area C: Professional Practice Foundations (43 Credit Hours):

Professional Identity (16 hrs.)

- EDP 570 INTRODUCTION TO PSYCHOLOGICAL SERVICES IN SCHOOLS
- EDP 658 PROBLEMS IN EDUCATIONAL PSYCHOLOGY (4 hrs.)
- EDP 622 SUPERVISION IN SCHOOL PSYCHOLOGY I: THEORETICAL MODELS OF PRACTICE / EDP 623 SUPERVISION IN SCHOOL PSYCHOLOGY II: APPLICATION FOR PRACTICE (3rd or 4th year seminar: 6 credit hours)
- EDP 770 LEGAL & ETHICAL ISSUES IN PROFESSIONAL PSYCHOLOGY

Diagnosis & Assessment (9 hrs.)

- EDP 640 INDIVIDUAL ASSESSMENT OF COGNITIVE FUNCTIONING
- EDP 642 INDIVIDUAL ASSESSMENT OF PERSONALITY FUNCTIONING
- EDP 776 SEMINAR IN SCHOOL PSYCHOLOGY (SUBTITLE REQUIRED)

Intervention (18 hrs.)

- EDP 670 PSYCHOEDUCATIONAL STRATEGIES OF INTERVENTION
- EDP 671 SEMINAR IN PSYCHOEDUCATIONAL CONSULTATION IN SCHOOLS
- EDP 704 SOCIAL JUSTICE CONSULTATION AND EVALUATION
- EDP 605 INTRODUCTION TO COUNSELING: TECHNIQUES I
- EDS 601 CONCEPTS AND PRINCIPLES OF APPLIED BEHAVIOR ANALYSIS
- EDP 680 PARENT AND CHILD COUNSELING

Area D: Educational Foundations (9 semester hours):

- EDC 619 ASSESSMENT OF READING GROWTH AND DEVELOPMENT

- EDC 732 CURRICULUM DESIGN FOR LEARNING AND LEADING
- EDS 611 CONTEMPORARY TRENDS AND ISSUES IN THE EDUCATION OF STUDENTS WITH MILD DISABILITIES.
- EDC 550 EDUCATION IN A CULTURALLY DIVERSE SOCIETY
- EPE 665 EDUCATION AND CULTURE
- EDS 522 CHILDREN AND FAMILIES
- EDS 600 SURVEY OF SPECIAL EDUCATION
- EDS 603 BEHAVIORAL CONSULTATION AND SUPERVISION
- EDS 595 SCHOOL LEVEL SERVICES AND FAMILY-SCHOOL COLLABORATION

Area E: Supervised Experience (18 hours):

Supervised Experience Component

- EDP 674 SCHOOL-BASED PRACTICUM IN SCHOOL PSYCHOLOGY (6 hrs.)
- EDP 675 PRACTICUM IN SCHOOL PSYCHOLOGY (6 hrs.)
- EDP 708 INTERNSHIP IN EDUCATIONAL, SCHOOL, AND COUNSELING PSYCHOLOGY (6 hrs.)

Electrical Engineering, MSEE

The Department of Electrical and Computer Engineering offers advanced studies leading to either a Master of Science in Electrical Engineering or a Doctor of Philosophy in Electrical Engineering.

The Department of Electrical and Computer Engineering has active research programs in the following areas: power electronics, power systems, electromechanics, computer engineering, control systems, electromagnetics, electro-optics, micro and nano-electronics, signal processing, communication systems, and controls. Departmental laboratories are well-equipped for students' research. In addition, the Power and Energy Institute of Kentucky provides additional research opportunities.

Admission Requirements

A minimum grade point average of 3.0/4.0 on all undergraduate work is required for admission to the graduate program. A minimum GRE general test scores of 301 (combination of Verbal and Quantitative sections) and analytical writing of at least 2.5 for the M.S. degree. The corresponding minimum GRE scores for Ph.D. Degree are 310 (V+Q) and 3.0 (Writing). Meeting the minimum requirements does not guarantee admission will be granted. Acceptance is based upon a competitive evaluation and on a space availability basis. An undergraduate degree in electrical engineering is preferred. Those applicants without a B.S.E.E. degree from an ABET accredited EE program should develop competence and demonstrate ability in the fundamentals of electrical engineering. Such students, before being admitted to full graduate standing within the department, must take (or have taken an equivalent of) a set of prescribed electrical engineering remedial courses. A minimum grade of C must be made in these courses.

Degree Requirements

For the M.S.E.E. degree, both the thesis and non-thesis options are available. The thesis option requires 30 hours of acceptable graduate level work to include, if desired, no more than 6 credit hours of ECO 768, plus the satisfying of the usual requirements for the thesis. The non-thesis option, Plan B, requires 30 hours of acceptable graduate work plus an additional three hours of EE 784 (Research Project in Electrical Engineering). All students in their first semester of regular graduate work must select an academic advisor who will assist the student in formulating a graduate plan of study leading to their particular degree. This plan, which must receive the approval of the Director of Graduate Studies, must contain specific courses and a proposed thesis area or specialized project topic.

In order to assure a minimum breadth and level of understanding at the graduate level, all EE graduate students must take three of six specified courses from the major areas of electrical engineering. These courses are:

- EE 611 DETERMINISTIC SYSTEMS
- EE 621 ELECTROMAGNETIC FIELDS
- EE 640 STOCHASTIC SYSTEMS
- EE 641 ADVANCED POWER SYSTEMS
- EE 661 SOLID-STATE ELECTRONICS
- EE 685 DIGITAL COMPUTER STRUCTURE

Electrical Engineering, PhD

The Department of Electrical and Computer Engineering offers advanced studies leading to either a Master of Science in Electrical Engineering or a Doctor of Philosophy in Electrical Engineering.

The Department of Electrical and Computer Engineering has active research programs in the following areas: power electronics, power systems, electromechanics, computer engineering, control systems, electromagnetics, electro-optics, micro and nano-electronics, signal processing, communication systems, and controls. Departmental laboratories are well-equipped for students' research. In addition, the Power and Energy Institute of Kentucky provides additional research opportunities.

Admission Requirements

A minimum grade point average of 3.0/4.0 on all undergraduate work is required for admission to the graduate program. A minimum GRE general test scores of 301 (combination of Verbal and Quantitative sections) and analytical writing of at least 2.5 for the M.S. degree. The corresponding minimum GRE scores for Ph.D. degree are 310 (V+Q) and 3.0 (Writing). Meeting the minimum requirements does not guarantee admission will be granted. Acceptance is based upon a competitive evaluation and on a space availability basis. An undergraduate degree in electrical engineering is preferred. Those applicants without a B.S.E.E. degree from an ABET accredited EE program should develop competence and demonstrate ability in the fundamentals of electrical engineering. Such students, before being admitted to full graduate standing within the department, must take (or have taken an equivalent of) a set of prescribed electrical engineering remedial courses. A minimum grade of C must be made in these courses.

Degree Requirements

For the PhD degree, students who only have a B.S. degree must complete 42 hours of course work. Students who have a M.S. degree from an accredited institution must complete 18 hours of course work. Students who have a M.S. degree from a non-accredited institution must complete 24 hours of course work.

In order to assure a minimum breadth and level of understanding at the graduate level, all EE graduate students must take three of six specified courses from the major areas of electrical engineering. These courses are:

- EE 611 DETERMINISTIC SYSTEMS
- EE 621 ELECTROMAGNETIC FIELDS
- EE 640 STOCHASTIC SYSTEMS
- EE 641 ADVANCED POWER SYSTEMS
- EE 661 SOLID-STATE ELECTRONICS
- EE 685 DIGITAL COMPUTER STRUCTURE

PhD students must also take a course in technical writing such as WRD 204.

Engineering in Healthcare Certificate

The Engineering in Healthcare graduate certificate offers didactic education and optional hands-on research experience in the application of engineering principles to healthcare problems. This 5 course/15 credit-hour (minimum) certificate is designed for students with a Bachelor's degree in engineering, chemistry, math or physics. Completion of the program will help students to:

1. distinguish themselves academically from their competition to professional school programs
2. engage in relevant educational experiences (including research) in the "gap year" between undergraduate studies and professional school
3. provide the foundation for enduring academic success by helping improve academic preparedness for professional school curricula
4. explore Biomedical Engineering as an adjunct (or primary) healthcare career option without formally committing to the master's degree program.

Students who complete this certificate have the option to apply most of the credits earned towards the Master's degree in Biomedical Engineering.

English, MA

The two-year MA program in English at the University of Kentucky provides broad training in literature, language, and theory. The flexible program is designed to meet the academic and professional needs of a range of students, including scholars who plan to move on to the PhD degree and teachers and professionals in the region who wish to pursue the terminal MA. Students can select either literature or film as their area of concentration. With rare exceptions, all MA students are funded through TAships.

The department offers a wide variety of specializations not only in traditional literary history but also in film studies, cultural studies, African-American Studies, and Postcolonial Theory. The Department of English

consists of 41 full-time faculty members who offer a range of courses in British, American, African-American, and Women's Literature, Creative Writing, Film, and Literary Theory. The graduate program relies on a nationally recognized faculty, a strongly supportive University of Kentucky Research Foundation, an active university press, and a research library of 1.2 million volumes.

Admission Requirements

Students eligible for the MA program must have:

- A UGPA of at least 3.25 on a 4.0 scale. Unofficial transcripts from all attended institutions are required. If the student is admitted and accepts, the graduate school will require all official transcripts. University of Kentucky graduates should note their degrees on the application but are not required to submit transcripts.
- An undergraduate degree in English or its equivalent. Applicants who do not complete an undergraduate English major but have a substantial background in literature should contact the Director of Graduate Studies.
- Three letters of recommendation, preferably from faculty familiar with the student's strengths and interests.
- A statement of purpose of no more than two pages that outlines what research interests the student expects to pursue for the PhD.
- A writing sample of approximately 20 pages that demonstrates the student's ability to carry out original research and make cogent arguments.
- A CV or resume.
- As of fall 2021, neither the general GRE nor the subject test in English is a required component of a student's application.

Degree Requirements

The MA timeline has two paths: a thesis (Plan A) and a non-thesis (Plan B) option.

Plan A students must

- Take 30 credit hours of coursework at the graduate level, which may include up to 6 hours of ENG 768. Students on assistantship are advised to take nine credit hours each semester (fall and spring) during the first year, six credit hours in the fall of the second year, and spend the spring semester of their second year writing their thesis and preparing for their oral examination. The oral examination will take place toward the end of the spring semester of the second year.
- Form a thesis committee consisting of a director and two other faculty members from within the English department.

- Write a Master's thesis (normally not to exceed 60 pages) on an original topic in a recognizable subfield of the discipline.
- Defend the thesis in a 90-minute oral examination.

Plan B students must

- Take 30 credit hours of coursework at the graduate level. Students on assistantship are advised to take nine credit hours each semester (fall and spring) during the first year and six credit hours each semester (fall and spring) during the second year. The oral examination will take place toward the end of the spring semester of the second year.
- Form a committee consisting of a director and two other faculty members from within the English department.
- Take a 90-minute oral examination based on a reading list of 30 to 50 texts to complete their degree.

MA students who choose either Plan A or Plan B may take up to six credit-hours of courses at the graduate level outside of the English Department. They can also apply for a wide variety of graduate certificates, which typically require 9 to 15 hours of coursework. These certificates range from Gender and Women's Studies to Social Theory to Preparing Future Faculty.

For a list of the available certificates, see here: <https://gradschool.uky.edu/graduate-certificates>

For a fuller sense of what the English department doctoral program's requirements and expectations are, including sample timelines to degree, see here: <https://english.as.uky.edu/doctoral-program>

English, PhD

The Doctoral Program in English at the University of Kentucky is designed to train students for the professoriate as both superb teachers and first-rate scholars through seminar work, qualifying exams in specific periods and subfields of literary study, and a long-form, original research project (the dissertation). The doctoral program is designed to lead to the PhD in five years of study beyond the MA degree. With a diverse range of graduate seminars and an active research faculty, the PhD program prepares students for a successful professional career in academia. Students can specialize in the fields of British, American, or Anglophone. Students will gain a broad expertise that will prepare them for researching and writing the dissertation. We are committed to the professional training of our students, and they have been successful in gaining academic employment. With rare exceptions, all enrolled doctoral students are funded through TAs.

The department offers a wide variety of specializations not only in traditional literary history but also in film studies, cultural studies, African-American Studies, and Postcolonial Theory. The Department of English consists of 41 full-time faculty members who offer a range of courses in British, American, African-American, and Women's Literature, Creative Writing, Film, and Literary Theory. The graduate program relies on a nationally recognized faculty, a strongly supportive University of Kentucky Research Foundation, an active university press, and a research library of 1.2 million volumes.

Admission Requirements

Students eligible for the PhD program must have:

- A UGPA of at least 3.25 and a GGPA of at least 3.0. Unofficial transcripts from all attended institutions are required. If the student is admitted and accepts, the graduate school will require all official transcripts. University of Kentucky graduates should note their degrees on the application but are not required to submit transcripts.
- Three letters of recommendation, preferably from faculty familiar with the student's strengths and interests.
- A statement of purpose of no more than two pages that outlines what research interests the student expects to pursue for the PhD.
- A writing sample of approximately 20 pages that demonstrates the student's ability to carry out original research and make cogent arguments.
- A CV or resume.
- As of fall 2021, neither the general GRE nor the subject test in English is a required component of a student's application.

Degree Requirements

- Students are responsible for taking 36 residency hours prior to the qualifying exam, including 24 regular course hours (graduate seminars at the 600 and 700 level). Students on TAs (which includes virtually all PhD students) will enroll in various teaching practicums in order to teach for the department. All pre-qualifying residency hours should be completed in the first two years of the program. For a sampling of recent and current graduate seminars, please see here: <https://english.as.uky.edu/english-graduate-courses>
- By the third semester of the program, students should have assembled a doctoral committee consisting of three faculty members in the English department and one outside member from a discipline adjacent or relevant to the student's proposed research program. At least three members of the committee must be tenured faculty.
- In year three, students take a qualifying examination that consists of two parts: a 2-hour oral examination in a major and minor field (in the fall) and a dissertation prospectus defense (in the spring). In the fall, qualifying students enroll in ENG 700, an examination preparation and professionalization course. Once students have successfully completed the qualifying examination and prospectus defense, they move into the dissertation phase of the program.
- Students are expected to complete their dissertations in years 4 and 5. Once the dissertation is finished and the committee has decided the student is ready, the student will complete a dissertation defense. After a successful defense, the student will turn in the dissertation to the Graduate School and receive their doctoral degree.

- Students may take up to six credit-hours of courses at the graduate level outside of the English Department. They can also apply for a wide variety of graduate certificates, which typically require 9 to 15 hours of coursework. These certificates range from Gender and Women's Studies to Social Theory to Preparing Future Faculty. For a list of the available certificates, see here: <https://gradschool.uky.edu/graduate-certificates>
- For a fuller sense of what the English department doctoral program's requirements and expectations are, including sample timelines to degree, see here: <https://english.as.uky.edu/doctoral-program>

Entomology, MS

The Department of Entomology has a rich legacy of vibrant scholarship and innovative education and outreach, coupled with strong commitment to graduate education. Individual graduate programs are planned by students in consultation with their advisory committees and the Director of Graduate Studies.

Entomology, like all agricultural and biological sciences disciplines, continues to evolve and integrate state of the art technology and new research perspectives with insect biology. Although departmental research is unified by a focus on insects and their arthropod relatives, many research groups creatively merge aspects of basic and applied biology. Graduate study and research opportunities are available in a diverse range of areas of entomology, including agricultural and urban entomology, biological control and integrated pest management, medical, veterinary, and public health entomology, pollinator biology and insect-plant relationships, forest entomology, and arachnology. Research covers many major fields of biology including behavior, biochemistry, ecology (including evolutionary, urban, landscape, and general ecology), genetics, neuroscience, molecular biology, physiology, toxicology, and systematics.

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Admission Requirements

A Bachelor's degree with an undergraduate grade point average of 3.0 and GPA of 3.25 in all graduate level work are required. Graduate Record Examination scores are not required. Applicants whose native language is not English must have a Test of English as a Foreign Language (TOEFL) with a minimum score of 79 on the TOEFL-iBT. A minimum overall band score of 6.5 on the International English Language Testing System (IELTS) may be used in lieu of a TOEFL score. The Program requires three letters of recommendation. Meeting the minimum requirements does not guarantee admission. These minimum requirements may be waived in exceptional cases if sufficient additional evidence is presented regarding the ability of the student to do graduate work. Admission to the Graduate Program in Entomology does not automatically guarantee financial assistance to the student.

Degree Requirements

M.S. Plan A

During their first year of graduate studies, M.S. Plan A students complete a formal written research proposal encompassing a thorough literature review, clear statement of objectives, and materials and methods of the project. A research proposal seminar will be presented to the Department upon completion of the written research proposal. An exit seminar, usually presented during the last semester of the student's tenure, is required. In addition, the follow requirements must be completed:

- 30 credit hours, including 6 credit hours of Residence Credit for the MS degree
- STA 570 (Basic Statistical Analysis) or equivalent, or a different statistics course approved by the student's advisory committee
- Completion of courses in two of three Core Areas. Core Areas include diverse courses in 1) Insect Behavior, Ecology, Evolution and Systematics, 2) Insect Molecular Biology, Physiology and Genetics, and 3) Pest Management and Applied Ecology.
- M.S. candidates must take two semesters of Entomological Seminar (ENT 770), or seminars from other departments approved by the student's advisory committee
- MS Thesis
- Final Examination

M.S. Plan B

During their first year of graduate studies M.S. Plan B form an advisory committee. In addition, the follow requirements must be completed:

- 36 credit hours
- STA 570 (Basic Statistical Analysis) or equivalent, or a different statistics course approved by the student's advisory committee
- Completion of at least one course in each of three Core Areas. Core Areas include diverse courses in 1) Insect Behavior, Ecology, Evolution and Systematics, 2) Insect Molecular Biology, Physiology and Genetics, and 3) Pest Management and Applied Ecology.
- M.S. Plan B candidates must take two semesters of Entomological Seminar (ENT 770), or seminars from other departments approved by the student's advisory committee
- Practicum project
- Final Examination

Entomology, PhD

The Department of Entomology has a rich legacy of vibrant scholarship and innovative education and outreach, coupled with strong commitment to graduate education. Individual graduate programs are planned by students in consultation with their advisory committees and the Director of Graduate Studies. Entomology, like all agricultural and biological sciences disciplines, continues to evolve and integrate state of the art technology and new research perspectives with insect biology. Although departmental research is

unified by a focus on insects and their arthropod relatives, many research groups creatively merge aspects of basic and applied biology. Graduate study and research opportunities are available in a diverse range of areas of entomology, including agricultural and urban entomology, biological control and integrated pest management, medical, veterinary, and public health entomology, pollinator biology and insect-plant relationships, forest entomology, and arachnology. Research covers many major fields of biology including behavior, biochemistry, ecology (including evolutionary, urban, landscape, and general ecology), genetics, neuroscience, molecular biology, physiology, toxicology, and systematics.

Graduate study and research opportunities are available in a diverse range of areas of entomology, including agricultural and urban entomology, biological control and integrated pest management, medical, veterinary, and public health entomology, pollinator biology and insect-plant relationships, forest entomology, and arachnology. Research covers many major fields of biology including behavior, biochemistry, ecology (including evolutionary, urban, landscape, and general ecology), genetics, neuroscience, molecular biology, physiology, toxicology, and systematics.

Admission Requirements

A Bachelor's degree with an undergraduate GPA of 3.0 and GPA of 3.25 in all graduate level work are required. Graduate Record Examination scores are not required. Applicants whose native language is not English must have a Test of English as a Foreign Language (TOEFL) with a minimum score of 79 on the TOEFL-iBT. A minimum overall band score of 6.5 on the International English Language Testing System (IELTS) may be used in lieu of a TOEFL score. The Program requires three letters of recommendation. Meeting the minimum requirements does not guarantee admission. These minimum requirements may be waived in exceptional cases if sufficient additional evidence is presented regarding the ability of the student to do graduate work. Admission to the Graduate Program in Entomology does not automatically guarantee financial assistance to the student.

Degree Requirements

During their first year of graduate studies Ph.D. students complete a formal written research proposal encompassing a thorough literature review, clear statement of objectives, and materials and methods of the project. A research proposal seminar will be presented to the Department upon completion of the written research proposal. An exit seminar, usually presented during the last semester of the student's tenure, is required. In addition, the follow requirements must be completed:

- 36 credit hours prior to qualifying examination (Students who have completed a Masters degree can petition to waive 18 credit hours of pre-qualifying examination credits)
- STA 570 (Basic Statistical Analysis) or equivalent, or a different statistics course approved by the student's advisory committee
- Completion of courses in two of three Core Areas. Core Areas include diverse courses in 1) Insect Behavior, Ecology, Evolution and Systematics, 2) Insect Molecular Biology, Physiology and Genetics, and 3) Pest Management and Applied Ecology.
- Ph.D. candidates must take four semesters of Entomological Seminar (ENT 770), or seminars from other departments approved by the student's advisory committee

- Qualifying Examination
- Doctoral Dissertation

Epidemiology and Biostatistics, PhD

The PhD program in Epidemiology and Biostatistics is a joint degree program offered by the Departments of Epidemiology and Biostatistics in the College of Public Health. It is a dynamic doctoral program designed to prepare independent researchers for careers in population health data science. This is unique, interdisciplinary program, offers coursework and experiential training in the application of methodological theory and concepts to address the practical challenges of conducting population-based, clinical and translational research. Graduates of this program are prepared for positions in the multidisciplinary work environments of academia, government, and industry. This doctoral program includes opportunities to engage in research teams, and offers an innovative and collaborative approach to cross-disciplinary training and mentoring with the intent of providing students with diverse exposure to emerging trends in public health and biomedical data.

Coursework in the Epidemiology and Biostatistics PhD program emphasizes the acquisition of methodological skills foundational to both epidemiology and biostatistics. Graduates of this program are expected to demonstrate expertise in methodologic approaches, problem conceptualization, ethics, and core public health knowledge for advancing population-based, clinical and translational science. As such, following completion of required coursework and examinations, students will be required to prepare a doctoral dissertation. The dissertation will represent publishable, independent research with scientific contributions in epidemiology, biostatistics, biomedical science, or public health.

Admission Requirements

The minimum GRE and GPA admissions requirements for the PhD in Epidemiology and Biostatistics program are the same as for the Graduate School. However, the number of admissions is limited and admissions decisions are made on a competitive basis. All applicants must have successfully completed two semesters of calculus and must have a master's degree in epidemiology, biostatistics, or related field.

Degree Requirements

Students will complete a minimum of 38 credit hours of coursework, including 15 credit hours of required program core, a minimum of 15 credit hours of electives in Epidemiology or Biostatistics, and a course in public health foundations.

The core curriculum includes foundational coursework in epidemiology and biostatistics theory, methodology, and application:

- EPI 714 EPIDEMIOLOGIC STUDY DESIGN (3 credits)
- EPI 715 RESEARCH METHODS IN EPIDEMIOLOGY AND BIOSTATISTICS (3 credits)

- EPI 717 INTRODUCTION TO CAUSAL INFERENCE (3 credits)
- BST 682 GENERALIZED LINEAR MODELS (3 credits)
- BST 762 LONGITUDINAL DATA ANALYSIS (3 credits)

Students are required to successfully pass an examination that includes content from the core courses.

Electives in epidemiology and biostatistics should be selected to support doctoral research and to develop focused methodology and subject matter expertise. All electives must be approved by the DGS.

Upon successful completion of coursework and examinations, students are expected to form a doctoral advisory committee. Prior to initiating dissertation work and enrolling in residency (CPH 767, minimum requirement of 2 semesters), students will be required to pass an oral qualifying exam, scheduled by the Graduate School and administered by doctoral advisory committee. The qualifying exam will include written materials to support the oral exam, which is comprised of the dissertation proposal and preliminary doctoral research.

Program website: <https://cph.uky.edu/academic-programs/phd-epidemiology-and-biostatistics>

Eurhythmics Certificate

The University of Kentucky Eurhythmics certificate, typically earned with three years of satisfactory engagement in the summer institute workshops, features courses that apply to the music teacher's work with students of all ages using an approach to music education created by Emile Jaques-Dalcroze. Additionally, successful completion of the University of Kentucky eurhythmics certificate can serve as an entry into study for the internationally-recognized Dalcroze certificate. The Dalcroze approach has three branches: eurhythmics trains the body to respond kinesthetically to rhythmic and dynamic concepts. Solfège trains the ear, eye, and voice in pitch, melody, and harmony. Improvisation enables students to respond to concepts according to their own invention, through movement, voice, and at an instrument.

Executive Educational Leadership Certificate

The Graduate Certificate in Executive Educational Leadership is designed for school system leaders. The courses (EDL 676, EDL 677, EDL 678, EDL 682) correspond to the Kentucky Superintendent Licensure program and thus are a good fit for district-level leaders. In particular, this program is useful for private school and international school system leaders such as the role of Headmaster.

Exercise Science, PhD

The Ph.D. program offers areas of concentration in Biomechanics or Exercise Physiology. The goal of the program is to provide education to qualified students so that they will have a broad understanding of exercise science, as well as an in-depth knowledge of one specific area or discipline. Graduates of this program will be able to conduct exercise science and/or biomechanics research, teach at the university level, direct discipline specific educational programs, and collaborate with other professionals on various issues related to exercise science/biomechanics. For more information on each concentration area, please visit the departmental website: <https://education.uky.edu/khp/grad/>

Objectives of the program:

- Provide a multidisciplinary doctoral program in exercise science with coordinated and expanded course offerings to meet the varied needs and interests of students wishing to pursue a research

and/or academic career in the exercise science areas of exercise physiology, biomechanics, and motor control. • develop scientific expertise and knowledge of resources which will enable students to conduct independent research in their given area of expertise.

- Foster cooperative interdisciplinary research.
- Provide opportunities for critical interdisciplinary evaluation of current research trends.
- Participate in guided research projects of sufficiently complex scope and design to prepare students for conducting their own research.
- Prepare leaders to educate others in the area of exercise science

Admission Requirements

•CV

• **Personal Statement:** Submit a statement of your professional aspirations and explain how you believe graduate study at the University of Kentucky will enhance your ability to achieve those professional goals. In your statement, provide information about your background, research skills and experiences, personal and professional achievements, and educational, work or life experiences that influenced you and your life goals.

• **Writing Sample:** Students who have not written a Master's level thesis will be required to submit an example of their research writing. A literature review or project from a completed class are acceptable examples for submission for application. Special circumstances will be considered at the discretion of the applicant's designated potential advisor.

• A Master's degree or graduate level professional (e.g. M.D.) degree from a fully accredited institution of higher learning.

• The Graduate School of the University of Kentucky requires an overall grade point of 3.0 on all prior graduate work and a 2.75 from undergraduate work.

• For the Graduate School, the minimum acceptable TOEFL score is 550 (paper-based) 213 (computer-based), or 79 (internet-based). The minimum IELTS score is 6.5; Submitted scores must be no more than two years old.

• GRE: Not required.

• Four letters of recommendation are required. A minimum of 3 out of 4 of these letters must be submitted by someone with a terminal degree (i.e. Ph.D., M.D., Ed.D., etc.) and must be from a person with direct knowledge of the applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

Degree Requirements

A minimum of 36+ credit hours are required prior to sitting for the qualifying exam, followed by the completion of a dissertation. Determination of a student's particular course plan is made in consultation with

the student and his or her approved advisory committee. The dissertation is guided and ultimately approved by the student's dissertation committee.

The Exercise Science Core includes 18+ hours and provides the student with a broad understanding of the various disciplines involved in this field. Each student is also required to take a minimum of 6 hours in research/statistic course work. Beyond this minimum, an advisor and committee in consultation with each student set the structure and content of the doctoral program. The number of formal courses within each area of specialization may vary. It is expected that the depth of knowledge in each area of study comes from independent study and research experiences, in addition to the dissertation, which are all under the direction of the faculty. Each student will demonstrate their depth of knowledge by their qualifying exams. Typically, it will take from 3-5 years for the student to complete the degree requirements including the dissertation.

Explosives and Blasting Certificate

The graduate certificate in Explosives and Blasting offers a formal education in the use of explosives for commercial applications such as mining and civil engineering. Those disciplines require the use of explosives to fracture and remove the rock, to extract valuable minerals or to emplace infrastructure. The curriculum is designed for mining and civil engineers or other engineering or related professionals that need to increase their knowledge in explosives and blasting. Significant areas include a review of basic concepts of explosives and blasting, advanced blast design, instrumentation for blasting, and the environmental aspects of blasting. The Explosives and Blasting Graduate Certificate is authorized to be delivered via online or hybrid format to students who are physically located in SARA member states and territories. Students who are residents of Kentucky have a waiver of 12 months towards the state blasting license.

Family and Consumer Sciences Certificate

The Family and Consumer Sciences graduate certificate program provides students with the knowledge and skills to positively impact the quality of individual and family life. The coursework provides students with the ability to amplify critical-thinking skills to address problems in diverse family, community, and work environments. Program graduates will enhance capacity-building skills that empower individuals and families to thrive in an ever-changing society. The 12-hour certificate is available to graduate students, as well as to practicing professionals and may be taken as a stand-alone program or as a part of a graduate degree program. The Family and Consumer Sciences graduate certificate is designed to partially meet the elective concentration component of the MS in Science Translation and Outreach.

Family Sciences, MSFS

The family sciences master's (M.S.) program uses an integrative approach to learning about improving individual, family, and community well-being. The program prepares students for immediate employment in their chosen area, and also provides an excellent foundation for subsequent matriculation into a doctoral program.

Five emphasis areas are available in the family sciences master's program: (a) adolescent development, (b) aging, (c) couple and family therapy, (d) family finance and economics, and (e) family processes. The couple and family therapy (CFT) emphasis area is accredited by the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE).

Admission Requirements

Students must have a bachelor's degree prior to admission into the master's program. Admissions are conducted one time each year; the application deadline is January 15 for admission Fall Semester of the same calendar year. Applicants must submit a statement of their academic goals for the M.S. degree and three letters of recommendation. See <https://fam.ca.uky.edu/content/applications-and-admissions> for details.

Degree Requirements

Credit Requirements:

- Total credit hours required for non-CFT emphasis areas: 30
- Total credit hours required for CFT emphasis area: 53

Course requirements for all emphasis areas:

- FAM 601 FAMILY PROCESSES (3 credit hours)
- FAM 652 READINGS IN FAMILY THEORY AND RESEARCH (3)
- FAM 654 THE LIFE COURSE PERSPECTIVE ON FAMILIES AND INDIVIDUALS (3)
- FAM 668 ALLOCATION OF FAMILY RESOURCES (3)
- FAM 690 RESEARCH METHODS IN FAMILY SCIENCE (3)
- FAM 775 SEMINAR IN HUMAN DEVELOPMENT AND FAMILY RELATIONS (1)
- Thesis or Scholarly Project (6)

Additional requirements for CFT emphasis area:

- FAM 640 USING THE DSM IN CFT ASSESSMENT (3)
- FAM 745 FAMILIES AND CHILDREN IN PLAY THERAPY (3)
- FAM 685 PROFESSIONAL ISSUES IN COUPLE AND FAMILY INTERVENTION (3)
- FAM 686 THEORY AND METHODS IN COUPLE AND FAMILY THERAPY (3)
- FAM 740 COUPLE AND SEX THERAPY (3)
- FAM 787 SUPERVISED PRACTICE OF COUPLE/FAMILY THERAPY (10)

Electives:

- All students will work with their advisory committee to select a data analysis course (e.g., qualitative or quantitative). Students in the adolescent development, aging, family finance and economics, and family processes emphasis areas will work their advisory committee to select at least 5 credit hours in their emphasis area.

- Other than the data analysis course, students in the CFT emphasis follow a proscribed course of study.

Program Websites

- For an overview of the MS program in Family Sciences please visit: <https://fam.ca.uky.edu/content/masters-program>
- Example two-year plans can be found on the following website: <https://fam.ca.uky.edu/content/curriculum-0>

Family Sciences, PhD

The doctoral program is a research-based curriculum that provides a strong foundation in theory, research methods, statistics, and teaching opportunities. It is designed particularly for those desiring a research career in family science, including positions at colleges and universities, program evaluation positions in public and private settings focusing on individuals and the family, and administrative positions in public and private human services prevention and intervention.

Areas of emphasis within the doctoral program are: (a) adolescent development, (b) aging, (c) family finance and economics, and (d) family processes.

Admission Requirements

Applicants must submit a statement of clearly developed academic and research goals for the Ph.D. degree, three letters of recommendation, transcripts of all graduate and undergraduate work with a minimum grade point average (GPA) of 3.0 out of 4.0, and Graduate Record Examination (GRE) scores. Master's level practitioners, educators, and researchers in the social sciences are best suited for the doctoral program. Previous research experience is desirable, but not required. Although students generally must have a master's degree prior to admission into the doctoral program, particularly outstanding applicants who have earned a bachelor's degree but not a master's degree may be considered for admission into the doctoral program. Admissions are conducted one time each year; the application deadline is January 15 for admission Fall Semester of the same calendar year. See <https://fam.ca.uky.edu/content/doctoral-program> for details.

Degree Requirements

Credit Requirements:

- Minimal coursework requirements prior to the qualifying examination include 2 years of residency and 36 credit hours, comprised of 20 credit hours of foundational courses (if not taken in master's program), 9 hours of research methods and theory, 9 credit hours of statistics, 8 credit hours of professional development, and 15 credit hours in a specialization area.

Course requirements:

- Research Methods(minimum 9 credit hours)
 - FAM 790 ADVANCED RESEARCH METHODS IN FAMILY SCIENCES (3)
 - One Qualitative Method(3)
 - One Quantitative Method(3)
- Statistics(minimum 9 credit hours)
 - FAM 777 APPLIED STATISTICS IN FAMILY SCIENCE (4)
 - Two Additional Statistics Courses(6)
- Professional Development(minimum 8 credit hours)
 - FAM 775-002: Professional Development Seminar II (1)
 - FAM 785 ADVANCED PROBLEMS IN FAMILY SCIENCES (teaching apprenticeship) (1)
 - FAM 786 TEACHING PRACTICUM IN FAMILY SCIENCES (supervised teaching) (3)
 - FAM 784 RESEARCH PRACTICUM IN FAMILY SCIENCES (qualifying exam) (3)
- Area of Specialization(minimum 15 credit hours)
 - Adolescent Development
 - Aging
 - Family Finance and Economics
 - Family Processes
- Foundational required unless approved from master's degree
 - FAM 601 FAMILY PROCESSES (3 credit hours)
 - FAM 652 READINGS IN FAMILY THEORY AND RESEARCH (3)
 - FAM 654 THE LIFE COURSE PERSPECTIVE ON FAMILIES AND INDIVIDUALS (3)
 - FAM 668 ALLOCATION OF FAMILY RESOURCES (3)
 - FAM 690 RESEARCH METHODS IN FAMILY SCIENCE (3)
 - FAM 775 SEMINAR IN HUMAN DEVELOPMENT AND FAMILY RELATIONS (1)
 - Basic Master's-level Statistics Course(3)

Program Websites

- For an overview of the Doctoral program in Family Sciences please visit: <https://fam.ca.uky.edu/content/doctoral-program>
- Doctoral Curriculum Requirements can be found on the following website: http://fam.ca.uky.edu/sites/fam.ca.uky.edu/files/d-curriculum-requirements_4-10-18.pdf

Finance, MSFI

The University of Kentucky's Master of Science in Finance (MSF) degree prepares students for a professional career in the finance and banking industries. The program is CFA Institute affiliated and prepares students for CFA exams. The MSF is also a STEM program, hence international students are eligible for 3 years of OPT after graduation. Students gain first-hand investment experience by managing millions of dollars of real money. The program is designed to provide rigorous and focused training in finance, broaden opportunities in your career, and sharpen skills for the fast-changing and competitive world of modern finance. Job candidates with MSF degrees are highly desired in finance-specialized industries, particularly investment banking and asset management companies such as mutual funds, hedge funds, and pension funds. They are also sought after by corporate treasury departments. The job opportunities in these industries are substantial, intellectually stimulating, and high-paying.

Admission Requirements

A bachelor's degree in any field with an overall GPA of 2.75 or above. GMAT (or GRE) is required, but can be waived based on 1) above 3.5 GPA; or 2) work experience in business/finance ; or 3) professional certifications include CPA, CFA, FRM, professional trainings/courses and/or credentials.

Degree Requirements

- Thirty credit hours
- Minimum GPA of 3.0

- Ten courses from the following fourteen courses (each is three credit hours):
 - FIN 600 CORPORATE FINANCIAL POLICY
 - FIN 623 INTERNATIONAL FINANCIAL MANAGEMENT
 - FIN 630 FINANCIAL MODELING AND ANALYSIS
 - ACC 621 UNDERSTANDING FINANCIAL STATEMENTS
 - ECO 491G APPLIED ECONOMETRICS
 - FIN 645 CORPORATE INVESTMENT AND FINANCING POLICY
 - FIN 650 INVESTMENTS
 - FIN 652 OPTIONS, FUTURES, AND DERIVATIVES
 - FIN 685 INVESTMENTS PRACTICUM
 - FIN 686 INVESTMENTS PRACTICUM II
 - FIN 688 FINANCIAL ANALYTICS TOOLS
 - FIN 691 ADVANCED TOPICS IN FINANCE (SUBTITLE REQUIRED)
 - MBA 647 NEW VENTURE FINANCE
 - MA 427G FINANCIAL MATHEMATICS

Forensic Toxicology and Analytical Genetics, MFTAG

As the flagship university in the Commonwealth, the University of Kentucky provides the only Master of Forensic Toxicology and Analytical Genetics (or degree of comparable nature) in the state, and it is only the fifth such professional master's degree in the field of forensics in the nation.

This two-year program has two areas of concentration: one concentration is focused on Forensic Toxicology/Chemistry and the second on Forensic/Analytical Genetics. Through the common core curriculum, students in both concentrations will have foundational information and skill set in advanced forensic science, writing, communication, professionalism, ethics, legal perspectives, and workplace-specific laboratory skills. Through a rigorous targeted finishing curriculum in either concentration, including internship experiences and cognate elective courses, the graduates will be competitive for workforce deployment in the areas of private industry drug testing, private DNA analysis, forensic governmental divisions, and hospital clinical labs. For more information on this program, please visit <https://toxicology.med.uky.edu/tox-professional-master-forensic-toxicology-and-analytical-genetics>

Admission Requirements

Applicants must meet the following requirements for admission to the University of Kentucky Graduate School and the Forensic Toxicology and Analytical Genetics program. An undergraduate bachelor's degree in biology, chemistry, forensic science or a related field of study from an accredited university is preferred. However, students with other bachelor's degrees or the equivalent from an accredited university will be considered if they are judged to be highly competitive and have completed foundational undergraduate courses in chemistry, biology or related fields. A Graduate Record Examination (GRE) score is not required.

More information on how to apply can be found here <http://toxicology.med.uky.edu/tox-admissions-0>

Degree Requirements

Core Courses Required for Both Concentrations

- TOX 800 FUNDAMENTALS IN FORENSIC SCIENCE (4)
- IBS 611 PRACTICAL STATISTICS (2)
- TOX 810 COMMUNICATING IN THE FORENSIC SCIENCE PROFESSION (1)
- TOX 820 PREPARING PROFESSIONALS IN FORENSIC SCIENCE AND ANALYTICAL GENETICS (1)
- TOX 840 FORENSIC SCIENCE STANDARDS AND PRACTICES (3)
- TOX 880 ETHICS AND PROFESSIONAL PRACTICE IN FORENSIC SCIENCE AND ANALYTICAL DNA (3)
- TOX 980 INTERNSHIP IN FORENSIC TOXICOLOGY AND ANALYTICAL GENETICS (6)

Forensic Toxicology/Chemistry Concentration Required Courses

- TOX 663 DRUG METABOLISM AND DISPOSITION (2)
- TOX 860 FORENSIC AND ANALYTICAL TOXICOLOGY (3)
- TOX 920 INSTRUMENTAL TECHNIQUES IN FORENSIC CHEMISTRY (4)
- BCH 401G FUNDAMENTALS OF BIOCHEMISTRY (3)

Forensic/Analytical Genetics Concentration Required Courses

- TOX 830 ADVANCED HUMAN GENETICS (2)
- ABT 461G INTRODUCTION TO POPULATION GENETICS (3)
- IBS 602 MOLECULAR BIOLOGY AND GENETICS (3)

- TOX 910 FORENSIC AND ANALYTICAL DNA (4)
- BCH 401G FUNDAMENTALS OF BIOCHEMISTRY (3)

Electives

- TOX 780 SPECIAL PROBLEMS IN TOXICOLOGY (1-6)
- TOX 790 RESEARCH IN TOXICOLOGY AND CANCER BIOLOGY (1-5)
- MBA 624 ENTREPRENEURSHIP AND MANAGEMENT TECHNOLOGY COMMERCIALIZATION (3)
- PA 651 THE POLICY PROCESS (3)

A suggested curriculum plan can be found here <https://toxicology.med.uky.edu/tox-curriculum-overview-0>

Forest and Natural Resource Sciences, MSFNRS

The MS in Forest and Natural Resource Sciences (FNRS) is offered by the Department of Forestry and Natural Resources. A goal of the Forest and Natural Resource Sciences Graduate Program is to contribute to improved forest health and management through enhanced understanding of relevant ecological and social benefits and constraints. Consequently, a student's degree program may be directed toward any of the disciplinary or interdisciplinary fields in Forest and Natural Resource Sciences, which range from molecular to landscape and societal levels. The Program's current research has particular strengths in southern Appalachian hardwood forest ecology and management, forest hydrology and watershed management, reforestation and mine reclamation, invasive species and forest health, animal ecology and management, and human dimensions including forest policy and economics.

Students may elect to pursue the Master of Science in Forest and Natural Resource Sciences degree under Plan A, which requires a minimum of 30 semester hours of graduate course work plus an acceptable thesis, or under a non-thesis option (Plan B), which requires a minimum of 30 semester hours of graduate course work that includes an area of specialization.

Admission Requirements

Applicants for admission to the Master of Science in Forest and Natural Resource Sciences degree program must hold (by the time of enrollment in the program) an awarded four-year baccalaureate degree from an accredited institution of higher learning. Although it is not required that an applicant's undergraduate degree be in forestry or another natural resource field, a student admitted to the program who lacks essential undergraduate courses may be required by an advisory committee to take them. Applicants are expected to have an overall undergraduate grade point average of 3.00 and a minimum combined verbal and quantitative score on the Graduate Record Examination (GRE) of 297.

More detailed information concerning the Forest and Natural Resource Sciences Graduate Program's admission procedures, assistantships, and degree requirements may be obtained at <http://forestry.ca.uky.edu/forestry-graduate-program>. Specific area(s) of interest of our individual faculty members can be found at: <http://forestry.ca.uky.edu/faculty>.

Degree Requirements

Total credit hours: 30 (Plan A), 30 (Plan B)

Core requirements include: All Forest and Natural Resource Sciences graduate students take: 1) FOR 601 RESEARCH METHODS IN FORESTRY, 3 credits; 2) FOR 602 RENEWABLE NATURAL RESOURCES IN A GLOBAL PERSPECTIVE, 3 credits and 3) FOR 770 FORESTRY SEMINAR (SUBTITLE REQUIRED) three times, 3 credits total.

Student focus their remaining coursework requirements by taking 500, 600 or 700 levels courses through various departments at UK. For more details: See <http://forestry.ca.uky.edu/plan-A-thesis-option-masters>

Program Website: <http://forestry.ca.uky.edu/forestry-graduate-program>

Forest and Natural Resource Sciences, PhD

The PhD in Forest and Natural Resource Sciences (FNRS) is offered by the Department of Forestry and Natural Resources. A goal of the Forest and Natural Resource Sciences Graduate Program is to contribute to improved forest health and management through enhanced understanding of relevant ecological and social benefits and constraints. Consequently, a student's degree program may be directed toward any of the disciplinary or interdisciplinary fields in Forest and Natural Resource Sciences, which range from molecular to landscape and societal levels. The Program's current research has particular strengths in southern Appalachian hardwood forest ecology and management, forest hydrology and watershed management, reforestation and mine reclamation, invasive species and forest health, animal ecology and management, and human dimensions including forest policy and economics.

Admission Requirements

Applicants for admission to the PhD program in Forest and Natural Resource Sciences degree program must hold (by the time of enrollment in the program) an awarded four-year baccalaureate degree from an accredited institution of higher learning. Holding a MS degree is preferred, but not required. Students with undergraduate and MS degrees in forestry or another natural resource field, natural sciences (biology or chemistry) or social sciences may be admitted to the program as long as the student has secured an advisor to mentor them. Undergraduate and graduate students are expected to have an overall grade point average of 3.00 and a minimum combined verbal and quantitative score on the Graduate Record Examination (GRE) of 297.

More detailed information concerning the Forest and Natural Resource Sciences Graduate Program's admission procedures, assistantships, and degree requirements may be obtained at <http://forestry.ca.uky.edu/forestry-graduate-program>. Specific area(s) of interest of our individual faculty members can be found at: <http://forestry.ca.uky.edu/faculty>.

Degree Requirements

Total credit hours: 36

Core requirements include: All Forest and Natural Resource Sciences graduate students take: 1) FOR 601 RESEARCH METHODS IN FORESTRY, 3 credits; 2) FOR 602 RENEWABLE NATURAL RESOURCES IN A GLOBAL PERSPECTIVE, 3 credits; 3) FOR 603 FOUNDATIONS IN FORESTRY, WILDLIFE AND NATURAL RESOURCE SCIENCES, 3 credits and 4) FOR 770 FORESTRY SEMINAR (SUBTITLE REQUIRED), three times 3 credits total.

Students focus their remaining coursework (24 credits) requirements by taking 500, 600 or 700 levels courses through various departments at UK. For more details: <http://forestry.ca.uky.edu/phd-program>

Program Websites: <http://forestry.ca.uky.edu/forestry-graduate-program>

French, MA

Graduate students in French and Francophone Studies are members of a dynamic intellectual environment. In addition to their coursework in French language, literature, and culture, M.A. candidates at UK pursue their intellectual interests in adjacent fields such as philosophy, history, women's studies, film studies, linguistics, English, and art history. Graduates of the M.A. in French and Francophone Studies program often pursue PhD degrees in French Studies at some of the best doctoral programs in the U.S, including, in recent years, Harvard, Michigan, UPenn, Duke, and Berkeley. Other graduates have gone on to teach in independent schools around the U.S. or have pursued a second Master's degree at the UK in Teaching World Languages (MATWL) or Teaching English as Second Language (MATESL), or through the UK Patterson School of Diplomacy and International Commerce. Others have gone on to law school or graduate programs in, for example, international affairs, education and study abroad administration, or work in the U.S. Department of State.

Admission Requirements

- Evidence of completion of the equivalent of the University of Kentucky's undergraduate major in French
- A minimum 3.25 undergraduate GPA in French on a four-point scale
- A statement of purpose for seeking the M.A. in French and Francophone Studies
- Completion of the GRE
- Three letters of recommendation addressing the applicant's qualifications for graduate work in French
- A writing sample in French by the applicant (analytical prose, typically a graded term paper; not a creative work)
- Non-native speakers of French must submit a digital recording (3-4 minutes) of themselves reading a contemporary prose passage in French (a newspaper or magazine article, not a literary work). Because there is no way to upload this recording directly into the Graduate School's application system, applicants should send the recording as an email attachment directly to the Director of Graduate Studies.
- Non-native speakers of English must submit a digital recording of themselves reading a contemporary prose passage in English (a newspaper or magazine article, not a literary work). Because there is no way to upload this recording directly into the Graduate School's application system, applicants should send the recording as an email attachment directly to the Director of Graduate Studies. In addition, they must fulfill the UK Graduate School's Test of English as a Foreign Language (TOEFL) requirement.

Degree Requirements

- 30 credit hours
- FR 553 TEACHING OF FRENCH
- 27 hours of graduate-level coursework in French and Francophone Studies
- Successful completion of the Master's Examination during the fourth semester of study
- Documented reading proficiency, as defined by the UK Graduate School, in a second world language

<https://mcl.as.uky.edu/ma-french>

Fundraising and Development Certificate

The graduate certificate in Fundraising and Development is designed to provide critical fundraising education to those who are currently working or seeking employment in nonprofit organizations. Nonprofit organizations across the United States are dependent on educated and skilled fundraisers. According to the National Center for Charitable Statistics there are more than 1.5 million registered nonprofit organizations - nearly all dependent on raising contributed income through fundraising efforts. Educational institutions, health, human services, relief agencies, arts and religious organizations are all reliant on donated funds to serve their beneficiaries. Therefore, knowledgeable fundraisers are needed to direct these efforts. Competition for fundraising has resulted in a strong job market and created a greater need for skilled and educated fundraisers.

Gender and Women's Studies Certificate

The graduate certificate in Women's Studies is intended to provide students with a coherent, interdisciplinary grounding in current gender and women's studies scholarship and to create an intellectual community among faculty and graduate students who share scholarly interests in gender and women's studies. The graduate certificate in women's studies may be taken to complement a student's disciplinary program, or it may be taken independent of the pursuit of any disciplinary graduate degree. For full information on this curriculum, please see our web page: <https://gws.as.uky.edu/gws-graduate-certificate>

Gender and Women's Studies, PhD

The graduate program in Gender and Women's Studies at the University of Kentucky aims to train cutting-edge scholars in feminist, gender, and sexuality studies. We are deeply committed to the academic innovations in both women's studies, in which lived experiences of women worldwide are honored and used to expand traditional disciplinary knowledges, and gender studies, which examines how we ascribe gendered meanings to everyday objects, experiences, and relationships across space and time. Our curriculum is shaped by an intellectually and culturally diverse faculty whose areas of expertise complement each other in ways to ensure that students gain a variety of knowledge and skills. These include the areas of transnational perspectives, critical theory, affect theory, social justice frameworks, and interdisciplinary methodologies. Our faculty actively publish and teach across a broad range of topical area including studies of violence, social movements and activism, the law, reproductive justice, education, disability, masculinities, migration, body, popular culture, sexualities, queer theory, science, and health.

The Ph.D. program is designed to familiarize students with (1) fundamental concepts, theories and frameworks for scholarly feminist inquiry, and (2) different approaches to inquiry and research in gender and women's studies. Students will learn to critically interpret and evaluate feminist theories, methods, and

arguments; analyze relations of power marked by gender and other social distinctions and processes including age, class, colonialism, ethnicity, national origin, race, region, religion, and sexuality; and conduct and communicate advanced research in gender and women's studies.

Admission Requirements

- Applicants for the Ph.D. degree program may be accepted from any undergraduate degree field. Applicants will be accepted into the program with or without an M.A. or equivalent advanced degree. For students without an M.A., the degree will be earned as part of their Ph.D. program.
- Applicants should have a 3.0 or higher undergraduate GPA and, if relevant, a 3.2 or higher graduate GPA. In addition, students must submit a personal statement, resume or vitae (CV), writing sample, three letters of recommendation, and official undergraduate and graduate (if relevant) transcripts.

Degree Requirements

The Ph.D. program requires 36 credits of coursework plus a minimum of 4 dissertation residency credits.

Students must complete:

- A two course sequence on feminist theory: Feminist Theory (GWS 650) and History of Feminist Thought (GWS 640)
- Two courses in methods/skills training (GWS 630 and an additional GWS or approved course)
- Two GWS "area" pro-seminars (GWS 600, GWS 700), which include topical areas in gender, women's and sexuality studies
- Elective courses in GWS or other disciplines, determined in conjunction with the student's advisory committee

<https://gws.as.uky.edu/graduate-program-gws>

General Radiological Medical Physics Certificate

The field of Radiological Medical Physics is the study of the use of radiation to diagnose and treat human diseases and is a relative newcomer in medically-related scientific disciplines. The first "radiological physics" practitioners were trained in the basic sciences, typically physics. Dedicated radiological medical physics education programs are a recent phenomenon. These programs strive to combine the scientific and medical aspects of the field but they remain small and few in number. To help meet the demand for workers in radiological medical physics, it has been common over the past 40 years to accept persons with closely related scientific backgrounds into the field and provide them with on-the-job training. Even today, a large fraction of practicing radiological medical physics have degrees in fields other than radiological medical physics. Many of these are leaders in the field and their contributions have been and will remain very important. Their work experience has traditionally provided the pathway into certification for these radiological medical physicists. However, given the recent changes adopted by the medical physics education community, these potential outside candidates must document completion of a basic core curriculum in radiological medical physics in addition to a Ph.D. Degree received in a closely related discipline in order to qualify for certification by the American board of radiology (ABR) in radiological physics. The curriculum credit hours required for the graduate certificate in radiological medical physics totals 16.

Geography, MA

The MA in Geography is designed to develop the theoretical, conceptual and methodological training necessary for students to make original contributions to geographic knowledge. The University of Kentucky's Department of Geography is known for high quality research and education in human geography, physical geography, and mapping. Program strengths include close faculty/student interaction, flexibility in designing an appropriate plan of study, and research training in seminar environments.

A variety of philosophical and methodological approaches are encouraged to prepare students for research-oriented careers in universities, government, and industry. Emphasis is placed on theoretical and methodological training and is closely integrated with both breadth and depth in substantive literatures. Student research also is empirically rich, with data regularly acquired through off-campus fieldwork. Members of the faculty are committed to assisting students in disseminating their research through publications in professional journals and presentations at conferences, and in obtaining external funding. Graduate students also gain valuable experience as instructors in undergraduate courses. Rounding out graduate students' experiences is their active participation in departmental governance and service on departmental committees.

Faculty and student research in the Department focuses on interrelated thematic clusters in accordance with the current interests of graduate students and faculty. The clusters facilitate collaborative scholarship though they typically do not function as formal research teams. The clusters tend to work as loose and overlapping intellectual communities that can incorporate working groups, reading groups, and collaborative projects, and they give a sense of the breadth of the research conducted in the department. The research clusters we presently feature are: Black Geographies, Critical Financial Geographies, Critical Mapping and GIS, Digital Geographies, Environmental Geographies, Political Ecology, Political Geographies, Queer and Feminist Geographies, Social Theory and Urban Geographies. Descriptions of each cluster and their associated faculty are available at <https://geography.as.uky.edu/geography-research-clusters>

The MA in Geography is available in two options:

- Plan A: 30 credit hours of coursework (including six credits of thesis) and an oral examination.
- Plan B: 30 hours of coursework, a research paper, a written exam and an oral examination.

Admission Requirements

We accept applicants holding Bachelor degrees in any field. In addition to UK Graduate school required materials, applicants should also provide:

- A statement of goals and objectives in which you discuss your areas of scholarly interest, research directions you wish to pursue, and how your goals fit in with the Department of Geography.
- A current resume or curriculum vitae.
- Three letters of references from persons who can evaluate your potential for success in our graduate program.

More details are available at <https://geography.as.uky.edu/admissions>

Degree Requirements

- Students are required to complete thirty hours of coursework.
- Students are required to take GEO 600 INTRODUCTION TO METHODS IN GEOGRAPHY

- Students are required to take GEO 702 CONCEPTS IN GEOGRAPHY
- Plan A students are required to take six credits of GEO 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE (Thesis)
- Plan B students are required to take an advanced methods course (such as GEO 705) appropriate to the student's interest and approved by the student's thesis advisor and the DGS
- For the remaining credits qualifying courses are as follows:
 - no more than 6 credit hours below the 600 level in the Department of Geography (GEO or MAP prefixes);
 - no more than 6 credit hours of independent study;
 - no more than 9 credit hours taken outside the Department of Geography; and
 - at least 16 credit hours must be regular courses (not independent study courses) numbered at the 600 or 700 level.

Geography, PhD

The PhD in Geography is designed to develop the theoretical, conceptual and methodological training necessary for students to make original contributions to geographic knowledge. The University of Kentucky's Department of Geography is known for high quality research and education in human geography, physical geography, and mapping. Program strengths include close faculty/student interaction, flexibility in designing an appropriate plan of study, and research training in seminar environments.

A variety of philosophical and methodological approaches are encouraged to prepare students for research-oriented careers in universities, government, and industry. Emphasis is placed on theoretical and methodological training and is closely integrated with both breadth and depth in substantive literatures. Student research also is empirically rich, with data regularly acquired through off-campus fieldwork. Members of the faculty are committed to assisting students in disseminating their research through publications in professional journals and presentations at conferences, and in obtaining external funding. Graduate students also gain valuable experience as instructors in undergraduate courses. Rounding out graduate students' experiences is their active participation in departmental governance and service on departmental committees.

Faculty and student research in the Department focuses on interrelated thematic clusters in accordance with the current interests of graduate students and faculty. The clusters facilitate collaborative scholarship though they typically do not function as formal research teams. The clusters tend to work as loose and overlapping intellectual communities that can incorporate working groups, reading groups, and collaborative projects, and they give a sense of the breadth of the research conducted in the department. The research clusters we presently feature are: Black Geographies, Critical Financial Geographies, Critical Mapping and GIS, Digital Geographies, Environmental Geographies, Political Ecology, Political Geographies, Queer and Feminist Geographies, Social Theory and Urban Geographies. Descriptions of each cluster and their associated faculty are available at <https://geography.as.uky.edu/geography-research-clusters>

Admission Requirements

We accept applicants holding Master degrees in any field. In addition to UK Graduate school required materials, applicants should also provide

- A statement of goals and objectives in which you discuss your areas of scholarly interest, research directions you wish to pursue, and how your goals fit in with the Department of Geography.
- A current resume or curriculum vitae.
- Three letters of references from persons who can evaluate your potential for success in our graduate program.

More details are available at <https://geography.as.uky.edu/admissions>

Degree Requirements

- Students are required to take GEO 600 INTRODUCTION TO METHODS IN GEOGRAPHY
- Students are required to take GEO 702 CONCEPTS IN GEOGRAPHY
- Students are required to take GEO 705 ADVANCED GEOGRAPHIC METHODS (SUBTITLE REQUIRED)
- Students are required to take Three one-credit hour Professional Development Courses
 - GEO 741 TEACHING PRACTICUM
 - GEO 742 PREPARING FUTURE FACULTY IN GEOGRAPHY
 - GEO 743 RESEARCH PROPOSALS AND GRANT WRITING
- Students are required to prepare a dissertation research proposal and meet with their advisory committee prior to preparing for their qualifying exam.

Geological Sciences, MS

The Department of Earth and Environmental Sciences offers graduate studies leading to the M.S. and Ph.D. degrees in Geology. Students with degrees in geology, any other natural science, or engineering are invited to apply.

Research within the Department of Earth and Environmental Sciences is funded by grants and contracts from NSF, DOE, PRF, and other federal, state, and industrial sources. Areas of graduate research are in fields covered by regular and adjunct faculty, including coal geology, hydrogeology, stratigraphy, petrology, geophysics, and tectonics.

Admission Requirements

Admission to pursue an M.S. or Ph.D. degree requires a bachelor's degree, a minimum grade point average of 2.75, three letters of reference and results from the verbal, quantitative, and analytical Graduate Record Examination (GRE). TOEFL scores are required for international applicants. For more details, please consult Admissions Information and Assistantships and Fellowships.

Admission criteria include GPA, GRE scores, prior course work, letters of reference, previous experience, and match with faculty research interests. This program requires an undergraduate GPA of at least 3.0 on all undergraduate and graduate work. For international applicants, we require that applicants rank in the top 25% of their graduating classes.

GRE must be taken, but there is no minimum score. Applicants who score at least 75th percentile on one category of the GRE and who have (a) an overall undergraduate GPA of 3.30, (b) a GPA of 3.60 for the last 60 credit hours of undergraduate work, or (c) a GPA of 3.80 for a completed master's degree (in each case from a US institution) are eligible for a Pirtle Fellowship, which provides \$3,000 in summer salary. Most applicants have a "standard" geology background, but strong students with backgrounds in the sciences and engineering are also admitted. Spoken English proficiency is important because many of our graduate students are employed as teaching assistants (in particular, as laboratory instructors). For international applicants, the Graduate School requires a minimum score of 550 on the TOEFL (213 on the computerized version; 79 on the internet-based version) or 6.5 on the IELTS. We typically only consider admission to the PhD program after completion of a master's degree either here at UK or at another US or European institution. Students who are deficient in one or more respects may be admitted provisionally or as non-degree students by action of the Graduate Committee. Your chances of admission are better if you've identified faculty members with whom you might work. We recommend you consult our faculty research specialties at <https://ees.as.uky.edu/faculty> and directly contact faculty in your areas of interest.

Degree Requirements

The Master of Science in Geological Sciences (Plan A) requires the completion of graduate course work and a thesis. The student must complete at least 30 credit hours of graduate course work, which may include up to 6 hours of EES 768*. The normal graduate load is 9 -10 credits during each of the first two semesters, and no more than 12 credits is advised. Graduate courses are those in the 500, 600, or 700 series, or in the 400G series if outside the Department of Earth and Environmental Sciences. At least 16 credits must be in EES course work, including 3 credits of Scientific Communication (EES 695-001). At least 12 credits must be in the 600 or 700 series, and at least 9 of the 600- or 700-level credits must be in EES courses. At least 16 hours must be regular (non-research) courses. Full-time students who are enrolled in at least 3 hours but less than 9 hours of coursework, which is typical in the third semester of the M.S. program, should register for EES 768 RESIDENCE CREDIT FOR MASTER'S DEGREE to reach 9 hours total. *768 hours do not count towards the 16 hours of EES coursework or the 12 hours of 600 or 700 series.

Geological Sciences, PhD

The Department of Earth and Environmental Sciences offers graduate studies leading to the M.S. and Ph.D. degrees in Geology. Students with degrees in geology, any other natural science, or engineering are invited to apply.

Research within the Department of Earth and Environmental Sciences is funded by grants and contracts from NSF, DOE, PRF, and other federal, state, and industrial sources. Areas of graduate research are in fields covered by regular and adjunct faculty, including coal geology, hydrogeology, stratigraphy, petrology, geophysics, and tectonics.

Admission Requirements

Admission to pursue an M.S. or Ph.D. degree requires a bachelor's degree, a minimum grade point average of 2.75, three letters of reference and results from the verbal, quantitative, and analytical Graduate Record Examination (GRE). TOEFL scores are required for international applicants. For more details, please consult Admissions Information and Assistantships and Fellowships.

Admission criteria include GPA, GRE scores, prior course work, letters of reference, previous experience, and match with faculty research interests. This program requires an undergraduate GPA of at least 3.0 on all undergraduate and graduate work. For international applicants, we require that applicants rank in the top 25% of their graduating classes.

GRE must be taken, but there is no minimum score. Applicants who score at least 75th percentile on one category of the GRE and who have (a) an overall undergraduate GPA of 3.30, (b) a GPA of 3.60 for the last 60 credit hours of undergraduate work, or (c) a GPA of 3.80 for a completed master's degree (in each case from a US institution) are eligible for a Pirtle Fellowship, which provides \$3,000 in summer salary. Most applicants have a "standard" geology background, but strong students with backgrounds in the sciences and engineering are also admitted. Spoken English proficiency is important because many of our graduate students are employed as teaching assistants (in particular, as laboratory instructors). For international applicants, the Graduate School requires a minimum score of 550 on the TOEFL (213 on the computerized version; 79 on the internet-based version) or 6.5 on the IELTS. We typically only consider admission to the PhD program after completion of a master's degree either here at UK or at another US or European institution. Students who are deficient in one or more respects may be admitted provisionally or as non-degree students by action of the Graduate Committee. Your chances of admission are better if you've identified faculty members with whom you might work. We recommend you consult our faculty research specialties at <https://ees.as.uky.edu/faculty> and directly contact faculty in your areas of interest.

Degree Requirements

The Doctor of Philosophy in Geological Sciences requires candidates complete at least 36 hours of prequalifying graduate course work, including that taken for a master's degree (which counts for 18 hours) and at least 2 semesters of EES 767 following the qualifying exam. Ph.D. students must take 3 credits of EES 695 (Scientific Communication), unless they have already completed these requirements as a student in the M.S. program. The normal full-time load is 3 courses (usually 9-10 credits) each semester, and no more than 12 credits per semester should be taken. Individual Work in Geology (EES 782) and Research in Geological Sciences (EES 790) will include data collection (field, laboratory, and/or library) and must not duplicate dissertation research. A research plan must be approved by a faculty member, who will direct the research, as well as the DGS. The faculty member who directed the research will provide a final evaluation of the project. The evaluation will be conveyed to the DGS.

German, MA

The Department of Modern and Classical Languages, Literatures and Cultures offers a graduate program leading to the M.A. (Plan A or B) degree in German.

The general goal of graduate work in German is to provide students with a critical understanding of German culture, its language and literature and its relationship to western civilization as a whole. Specific courses are designed to acquaint students with the aims and methods of research in the fields of language pedagogy, literary and cultural history, literary theory, and historical linguistics. Students working as teaching assistants under faculty supervision have ample opportunity to develop effective teaching skills in a controlled setting.

Individual programs of study are planned with consideration of the student's competencies and interests. The Department endeavors to be flexible and to accommodate career goals in teaching, government service, or research. Areas of specialization of the graduate faculty of the department afford flexible coverage in breadth and depth, with particular strength in early modern studies, the Age of Goethe, Wilhelmine and Weimar culture, contemporary literature and culture, literary theory, intellectual history, gender studies, and foreign language pedagogy. The Department serves as the editorial center for the international journal *Colloquia Germanica*. The University Library has substantial holdings in all areas of German language, linguistics and literature and in supporting fields.

Admission Requirements

Admission requirements include an acceptable undergraduate major in German, a satisfactory score on the Graduate Record Examination (GRE), and three letters of recommendation. Applicants lacking more comprehensive knowledge of German language and literature may be admitted with the understanding that their program must include some advanced undergraduate work in addition to those courses normally required for the M.A.

Degree Requirements

Plan A (thesis):

- 30 total credit hours
- 24 credit hours in GER prefix courses not including GER 768 RESIDENCE CREDIT FOR MASTER'S DEGREE
- Graduate foreign language requirement, normally in French
- Completion of a thesis and oral examination

Plan B (non-thesis):

- 30 total credit hours, of which 24 must be in courses with the GER prefix
- Graduate foreign language requirement, normally in French
- An oral and written examination

<https://mcl.as.uky.edu/ma-german>

Gerontology Certificate

The graduate certificate in Gerontology is an interdisciplinary curriculum offered by the Sanders-Brown Center on Aging. The certificate is a part of Sanders-Brown's complete range of research and educational activities that prepare both graduate students and practicing professionals from many disciplines to assume

key roles in improving the quality of life for older adults and furthering our understanding of the aging process. Its interdisciplinary focus makes it possible for students to tailor their course work to support their own fields of interest.

Gerontology, PhD

The PhD program in gerontology employs a curriculum designed to establish the knowledge base and especially the thinking/methodological skills necessary to successfully contribute to gerontology scholarship. The curriculum consists of 41 hours of course work plus directed studies and research within a program of study that involves six interlocking elements:

- a required core in gerontology
- specialized coursework in a substantive thematic research domain
- training in appropriate and supportive research methods
- grounding in public health concepts
- a qualifying examination
- a dissertation

Admission Requirements

The Ph.D. Program in Gerontology encourages applications from individuals having expressed interests in advanced theoretical and research-based studies of aging processes or aged individuals and populations. Complete applications that will be considered for admission to the Gerontology Program must include:

- Application Form and fee payment
- Official transcripts of all colleges and universities attended
- Official report of the Graduate Record Examination (GRE)
- (International Students) Official TOEFL report
- At least three (3) letters of reference
- Personal statement of interests, doctoral study plans, and career goals.

Students are encouraged to submit samples of scholarly writing, and are strongly encouraged to visit the program before admission decisions are made. All complete applications will be evaluated not only for evidence of strong academic accomplishment and high professional standards, but for evidence of a strong potential for success in advanced graduate studies and careers in gerontology-related fields.

Degree Requirements

The PhD program in gerontology employs a curriculum designed to establish the knowledge base and especially the thinking/methodological skills necessary to successfully contribute to gerontology scholarship.

Program Curriculum

The following curricular requirements are presented as a guide to your matriculation through the program. Depending on your previous coursework, there may be changes and alternatives suggested by your advisor.

<u>Required Courses</u>	<u>Elective Courses</u>
GRN 600 A STUDY OF THE OLDER PERSON (3)	Work with your advisor and DGS to identify appropriate electives.
GRN 620 HUMAN AGING AND ADJUSTMENT (3)	<i>Subtotal: Elective Hours (15)</i>
GRN 650 RESEARCH DESIGN IN GERONTOLOGY (4)	
GRN 656 INTEGRATIVE STUDIES IN GERONTOLOGY (3)	<u>Teacher Training (optional)</u>
CPH 603 INTRODUCTION TO DATA ANALYSIS FOR PUBLIC HEALTH (3)	GRN 616 TEACHING SEMINAR IN GERONTOLOGY (2)
Additional Methods Courses (6)	GRN 617 TEACHING PRACTICUM IN GERONTOLOGY (3)
CPH 605 EPIDEMIOLOGY (3)	<i>Subtotal: Teacher Training Hours (5) (optional)</i>
CPH 663 INTRODUCTION TO PUBLIC HEALTH PRACTICE AND ADMINISTRATION (1)	
<i>Subtotal: Core Hours (26)</i>	
	<u>Total Minimum Hours Required for Degree (41)</u>

Global Health Certificate

The goal of the graduate certificate program in Global Health is to provide a general foundation in the understanding of global health issues and the complex multiplicity of factors that affect them, and to provide some basic tools in health assessment methods to measure their impact. Given the widespread globalized nature of our world today, there is an increasing need for understanding the impact of globalization on health, both in terms of health patterns common across regions, and in terms of how what were once considered focal, limited local issues can transcend national and continental borders. The program is designed to prepare students for the increasing demand for international, interdisciplinary skills in the areas of public health prevention, health care and other health-related disciplines. The global health certificate will include a minimum of 15 credit hours - 12 of classroom coursework and 3 based on a required international internship course. The program is housed in the college of public health, but it is intended to be multidisciplinary and open to a variety of graduate students in any of the health sciences or other disciplines across campus. It is also available to professionals or other college graduates interested in obtaining this additional training.

Health Administration, MHA

The Master of Health Administration (MHA) program is offered in the College of Public Health. Its mission is to provide students with critical competencies required to succeed in leadership positions in health systems, hospitals and other complex health-related organizations, and to build a solid foundation for their future career development. The MHA program focuses on preparing students early in their careers for positions that require management and strategic abilities, and places special emphasis on needs and opportunities in healthcare organizations within Kentucky and the region. MHA courses draw on the expertise of faculty from several UK colleges, UK HealthCare, and other healthcare organizations in Kentucky and beyond.

Admission Requirements

- A 3.0 or higher undergraduate grade point average is recommended.
- Official scores on the Graduate Record Examination (GRE) or Graduate Management Admissions Test (GMAT). Verbal and quantitative scores at the 50 percentile or better are recommended.
- Three letters of recommendation (at least one from a faculty member who has taught or supervised the applicant).
- Personal statement
- Official TOEFL scores (international students only).
- Official GRE/ GMAT, TOEFL scores and copies of official transcripts must be submitted by the applicant directly to SOPHAS or HAMPCAS.
- Applicants must also submit a supplemental application to the University of Kentucky's Graduate School; <http://gradschool.uky.edu/welcome-university-kentucky>
- Applicants are encouraged to apply early for all scholarship/financial aid consideration.
- Application deadline for international students March 15th.
- Application deadline for all other applicants is June 30th.
- Admission is competitive and decisions are made on a rolling basis, so applicants are encouraged to apply early.
- Students are admitted only in the fall semester.

Degree Requirements

The total program consists of 50 semester hours at the graduate level. Program completion normally requires two years for a full-time student and four years for part-time students. Students are also required to complete a final integrative master's examination. To be eligible to sit for the final examination, students must have completed or be enrolled in their last semester of coursework and have an overall GPA of 3.0 or better. Students with "I" or "S" grades in credit-bearing classes are not eligible for the final examination.

Program Curriculum

The following curricular requirements are presented as a guide to your matriculation through the program, but depending on previous coursework, there may be changes and alternatives suggested by the MHA Graduate Advisor.

Required Courses

Course Title (Credit Hours)

CPH 600 HEALTH SERVICES AND SYSTEMS ORGANIZATION (3)

CPH 605 EPIDEMIOLOGY (3)

CPH 652 HEALTH FINANCE (3)
CPH 655 MANAGEMENT ACCOUNTING FOR HEALTH CARE ORGANIZATIONS (3)
CPH 658 HEALTH ECONOMICS (3)
CPH 663 INTRODUCTION TO PUBLIC HEALTH PRACTICE AND ADMINISTRATION (1)
CPH 681 LEGAL ASPECTS OF HEALTHCARE MANAGEMENT (3)
CPH 682 QUANTITATIVE METHODS FOR HEALTHCARE MANAGEMENT (3)
CPH 683 OPERATIONS MANAGEMENT AND QUALITY IMPROVEMENT (3)
CPH 684 HUMAN RESOURCES MANAGEMENT IN HEALTHCARE (2)
CPH 687 ORGANIZATION THEORY AND BEHAVIOR (3)
CPH 688 INTERNSHIP IN HEALTH ADMINISTRATION (1)
CPH 780 STRATEGIC PLANNING AND MARKETING IN HEALTHCARE (3)
CPH 781 HEALTHCARE ETHICS AND GOVERNANCE (2)
CPH 782 INFORMATION SYSTEMS IN HEALTH CARE (3)
CPH 784 CASE STUDIES IN HEALTH ADMINISTRATION (2)
CPH 785 HEALTH POLICY (3)
CPH 787 INDEPENDENT STUDY IN HEALTH ADMINISTRATION (1)

Electives

Please see your advisor for elective options.

Subtotal: Elective Hours (5)

Total Minimum Hours Required for Degree - 50

Health Coaching Certificate

Health Coaching has been defined as, "...the practice of health education and health promotion within a coaching context, to enhance the wellbeing of individuals and to facilitate the achievement of their health-related goals" (Palmer et al., 2003). Health coaches help clients identify their goals, develop an action plan, and help put the plan into action while giving support and helping to motivate clients toward success. The Department of Kinesiology & Health Promotion at the University of Kentucky proposes a new 15-credit graduate certificate in health coaching designed to meet the supplemental education needs of current health promotion professionals and those training to become health promotion professionals. The graduate

certificate would be open to any students who are already are or will be enrolled in a degree program, or those who simply apply for postbaccalaureate (non-degree) status in order to complete the certificate, are eligible to apply for admission.

Health Communication Certificate

The graduate program in Communication offers a certificate in Health Communication that is available to (a) students in the Ph.D. And M.A. programs in communication, (b) students in other doctoral programs at the university and (c) post baccalaureate students. The certificate program is aimed primarily at individuals interested in developing specialized knowledge and research expertise in health communication that could be applied within both academic and nonacademic settings. Students are expected to have a background in social or behavioral science prior to entering the program. To earn the certificate, students must complete CJT 671 and 771 and either CJT 780 (section focusing on a health communication topic) or a graduate course in medical informatics, for a total of 12 credit hours.

Health Services Research, PhD

The PhD program in Health Services Research at the University of Kentucky College of Public Health prepares professionals for a career in conducting data-driven health services research. This unique program strongly emphasizes applied health services research skills, including study design, data management, statistics and other quantitative methods. Students may choose from one of two disciplinary concentrations: health economics or health outcomes.

Graduates will be prepared to address the practical challenges of conducting health services research in the multidisciplinary research environments of academia, government, consulting and industry. The mentored research program will prepare independent researchers skilled at designing and conducting health services research, leveraging a variety of study designs, primary data collection approaches, and primary and secondary databases to inform healthcare delivery and health policy.

Admission Requirements

- SOPHAS application (deadline June 1 for US applicants; April 1 for international applicants)
- Master's degree in a related field
- Prerequisite courses or their equivalent (Foundations of Public Health, Epidemiology, Biostatistics)
- Personal Statement
- The PhD HSR program is test optional for fall 2021 applicants. You may submit GRE or GMAT scores if you wish.
- Official TOEFL or IELTS score for international students
- Official transcripts from all previously attended institutions
- International transcripts (International Students ONLY - must be evaluated by WES)

- Three recommendations (contact information only) - at least one from a faculty member who taught or supervised applicant;
- CV/Resume

Students who are admitted to the PhD program will be required to complete a secondary UK Graduate School application at least one month before the start of classes to accept admission to the program.

Degree Requirements

Program Curriculum

Semester 1 (Fall Year 1): 12 credit hours

- HSR 700 HEALTH SERVICES RESEARCH AND THEORY (3 credit hours)
- CPH 712 ADVANCED EPIDEMIOLOGY (3 credit hours)
- Concentration Course (3 credit hours)
- Intermediate Statistics Course (3 credit hours)
- HSR 701 HEALTH SERVICES RESEARCH JOURNAL CLUB (0 credit hours)

Semester 2 (Spring Year 1): 12 credit hours

- CPH 635-201 Databases and SAS Programming (3 credit hours)
- EPI 714 EPIDEMIOLOGIC STUDY DESIGN (3 credit hours)
- Concentration Course (3 credit hours)
- Concentration Course (3 credit hours)
- HSR 701 HEALTH SERVICES RESEARCH JOURNAL CLUB (0 credit hours)

Semester 3 (Summer Year 1): 3 credit hours

- HSR 720 DIRECTED RESEARCH (3 credit hours)

Semester 4 (Fall Year 2): 12 credit hours

- HSR 705 HEALTH SERVICES RESEARCH METHODS (3 credit hours)
- Methods Course (3 credit hours)
- Concentration Course (3 credit hours)
- HSR 720 DIRECTED RESEARCH (3 credit hours)
- HSR 701 HEALTH SERVICES RESEARCH JOURNAL CLUB (0 credit hours)

Semester 5 (Spring Year 2): 11 credit hours

- Advanced Statistical Analysis Course (3 credit hours)
- Elective Course
- HSR 720 DIRECTED RESEARCH (3 credit hours)
- HSR 725 DEVELOPING PROPOSALS FOR HEALTH SERVICES RESEARCH (2 credit hours)

- HSR 701 HEALTH SERVICES RESEARCH JOURNAL CLUB (0 credit hours)

Semester 6 (Summer Year 2)

- Doctoral Candidate Examination
- Dissertation Proposal Defense

Semesters 7 (Fall Year 3): 2 credit hours

- CPH 767 DISSERTATION RESIDENCY CREDIT (2 credit hours)

Semester 8 (Spring Year 3): 2 credit hours

- CPH 767 DISSERTATION RESIDENCY CREDIT (2 credit hours)
- Dissertation Defense

High Performance Coaching Certificate

The University of Kentucky Department of Kinesiology and Health Promotion offers a Graduate Certificate in Health Coaching. Health Coaching has been defined as, "...the practice of health education and health promotion within a coaching context, to enhance the wellbeing of individuals and to facilitate the achievement of their health-related goals." The aim of the Graduate Certificate curriculum is to provide a foundation in current behavior change theories/models, motivational interviewing, as well as understanding of current health issues. Students may complete the certificate as a complement to a graduate disciplinary degree program or as a stand-alone curriculum. Students who are currently enrolled as a graduate student in a department at the University of Kentucky are encouraged to apply for the Health Coaching Graduate Certificate program early in their graduate studies. Students who are enrolled in the M.S. in Health Promotion program are eligible to count up to 9 credit hours from their program, requiring them to take six additional credit hours (on top of their M.S. curriculum) to complete the graduate certificate.

Higher Education, MSEDU

The Master of Science in Higher Education (HIED) is a degree program with recommended pathways in Higher Education Policy and Student Affairs. The program serves those contemplating careers in higher education or already working in a college or university, as well as those interested in pursuing the study of higher education at the doctoral level.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A 250 word statement of purpose describing the student's intellectual and professional goals for completing the program

- Two letters of reference with at least one from a referee familiar with the students' academic work
- Resume or Curriculum Vitae
- Deadlines for Applications are October 1st and February 1st.

Degree Requirements

- The program requires 31 hours of coursework culminating in a common written master's exam during the final semester.
- All EPE students are required to take EPE601 Proseminar (1 credit hour) during their first semester of study in the department.
- Core Classes recommended of all MS HIED students
 - EPE 612 INTRODUCTION TO HIGHER EDUCATION
 - EPE 653 HISTORY OF HIGHER EDUCATION
 - EPE 676 ORGANIZATION AND ADMINISTRATION OF HIGHER EDUCATION
- MS HIED students then design a focus following suggested pathways in Higher Education Policy or Student Affairs.
- The MS in HIED program plan also requires one 3 credit hour research course selected in consultation with their advisor.
- Internships are recommended, but not required. Internship experiences are designed by the student and their advisor to meet individual professional and/or scholarly goals.
- Electives can be chosen from EPE courses as well as courses outside of EPE and the College of Education with permission of the student's advisor.
- Students may include an EPE graduate certificate in Research Methods or Comparative & International Education as part of their MS HIED program.

<https://education.uky.edu/epe/>

Hispanic Studies, MA

Admission Requirements

We require a B.A. in Hispanic Studies or a related area, demonstrated fluency in Spanish and English, strong letters of reference and a representative research essay from the candidate's prior academic work. Graduate Record Examination scores are required for admission. Foreign students must pass the TOEFL with the minimum required score of 550 on the paper version of the exam, 213 on the computer version, or

79 on the Internet/IBT version. Supervised teaching experience within the department is a requirement for both the M.A. and Doctoral degrees.

Degree Requirements

36 credit hours total. Reading knowledge of one foreign language in addition to Spanish and/or English; successful completion of SPA 553 TEACHING OF SPANISH, SPA 600 INTRODUCTION TO SPANISH LINGUISTICS, SPA 606 INTRODUCTION TO CRITICAL THEORY AND CULTURAL STUDIES and SPA 770 INTRODUCTION TO HISPANIC STUDIES. Successful completion of an additional 24 hours of credits of which 6 may be taken at the 500 level (24 credits must be taken at the 600 level or above). The M.A. is granted to a student who has successfully passed a written and oral examination after completing the required coursework. One half of the exam is designed to test the candidate's knowledge of the M.A. Reading List (located at <https://hs.as.uky.edu/sites/default/files/Post-May%202015%20MA%20Reading%20List.pdf>) and the other half is based on the candidate's graduate-level coursework. A student who plans to complete only the M.A. degree (or is not admitted into the Ph.D. program) has four semesters to complete the coursework towards the MA. M.A. exams are given in August and January.

NOTE: Students who are admitted into the Ph.D. program during the fourth semester of coursework are not required to take an M.A. exam after four semesters. The M.A. degree will be conferred to them upon successful completion of the doctoral Qualifying Exam. Students who enter the program with an M.A. from another institution will be evaluated by the Graduate Studies Committee at the beginning of the third semester of coursework. If the committee deems the student's work acceptable, the student may then go on to complete the PhD requirement. If the work is deemed unacceptable, the student will be required to pass the MA exam before proceeding on to the Ph.D

Hispanic Studies, PhD

Admission Requirements

We require a B.A. in Hispanic Studies or a related area, demonstrated fluency in Spanish and English, strong letters of reference and a representative research essay from the candidate's prior academic work. Graduate Record Examination scores are required for admission. Foreign students must pass the TOEFL with the minimum required score of 550 on the paper version of the exam, 213 on the computer version, or 79 on the Internet/IBT version. Supervised teaching experience within the department is a requirement for both the M.A. and Doctoral degrees.

Degree Requirements

54 credit hours (18 courses) of which four courses are required: successful completion of SPA 553 TEACHING OF SPANISH, SPA 600 INTRODUCTION TO SPANISH LINGUISTICS, SPA 606 INTRODUCTION TO CRITICAL THEORY AND CULTURAL STUDIES and SPA 770 INTRODUCTION TO HISPANIC STUDIES. Of the remaining 15 courses, 5 must be in the major field of concentration (with two of these at the 700 level), 4 courses must be in the allied fields, and 2 in a minor field (outside the department). Additionally, the student must demonstrate reading knowledge of one language other than Spanish and

English. The successful candidate will defend a dissertation prospectus, successfully complete Parts A and B of the Doctoral Qualifying Exam, and defend a dissertation.

Candidates are expected to devise a program of study and research around the major area of specialization. Two minor areas (in Hispanic literature and culture or Linguistics) and one allied field (related to the dissertation work) must be selected as support divisions for the major area. Minimum graduate credit expectations are 24 credit hours in the combined Major and Minor areas and 12 credit hours in the Allied Fields; 6 graduate credits in each of the two remaining areas not chosen as Major, Minor, or Allied Fields. Two seminars (one in the major field) are required.

Specialization by area:

- 1) Medieval Spanish Studies;
- 2) Renaissance and Early Modern Spanish Studies;
- 3) Eighteenth and Nineteenth Century Spanish Studies;
- 4) Twentieth and Twenty-First Century Spanish Studies;
- 5) Colonial and Nineteenth Century Spanish American Studies;
- 6) Twentieth and Twenty First Century Spanish American Studies.
- 7) U.S. Latino Studies

The dissertation focus may combine Hispanic literature and film, Hispanic literature and Fine Arts, Hispanic literature with a second literature, literature and popular culture, or literature and theory. Students are encouraged to explore topics in Transatlantic Studies, and to make use of the programs in Social Theory, Gender and Women's Studies, Latin American Studies, Environmental Studies and Appalachian Studies in considering transdisciplinary possibilities for their doctoral theses.

The Doctoral Qualifying Examination consists of two parts. Part A is a written exam and a two hour oral exam based on the reading list and the prospectus the student has created under the supervision of the dissertation committee. The written exam is structured as follows: a take-home exam in the areas of the dissertation and the extra-disciplinary Minor Field, and an additional ten hours to test the student's knowledge in his/her area of general specialization, and the additional three areas (Major and Allied Fields) on which the student has chosen to concentrate. In order to take this exam, the student needs to have submitted a written prospectus and a reading list to the dissertation committee at least two months before scheduling the exam.

Part B of the qualifying examination will take place during the semester following Part A. The student will present either a fully written introduction or a sample dissertation chapter to the dissertation committee. Acceptable Progress towards the Dissertation: The ABD student is required to establish and maintain an acceptable timeline for completing the dissertation. The Department expects that the student complete at least one dissertation chapter per semester until the dissertation is completed. It is hoped that the student will complete the dissertation within two years after the qualifying exams.

Historic Preservation Certificate

The graduate certificate in Historic Preservation is now available to both graduate students and practicing professionals. Certificate students have a choice of three areas of concentration: preservation and design; preservation and economic development; and preservation and planning. The certificate requires 12 credit hours, and is a great way to gain an advantage in an increasingly competitive job market. The certificate consists of two core courses, and two courses from the area of concentration. The graduate certificate may

be earned concurrently with a master's degree in any other field, such as architecture, interiors, history, anthropology, engineering, or business. It may also be earned by professionals who already possess a bachelor's degree in another field. Previous design experience or education is not a requirement for acceptance into the certificate program. Knowledge of the values and legal framework that drives preservation decisions is useful to numerous professions in today's world. Certificate students will learn preservation principles, tools, and techniques that will allow them to apply their base knowledge within a historic context.

Historic Preservation, MHP

From historic buildings and archaeological sites to urban neighborhoods and rural landscapes, graduates of the Master of Historic Preservation (MHP) program are actively engaged in the identification, documentation, protection, and sustained use of a broad range of historic and cultural resources. Historic preservation is a complex and interdisciplinary field that requires creative thinking about the relationship between the past, present, and future. It applies the skills of historians, designers, anthropologists, engineers, and many other allied fields to sites of historical meaning and significance. Our graduates work in private practice, at every level of government, and in the non-profit world. The Department of Historic Preservation also offers a graduate certificate in Historic Preservation, which is comprised of two required courses (HP 601 and HP 602), and two additional historic preservation electives.

Admission Requirements

- 1) A baccalaureate degree from an accredited college or university
- 2) A writing sample or demonstration of ability in drawing, drafting, and/or photography
- 3) Three letters of recommendation and a personal essay
- 4) A minimum 2.75 GPA at the undergraduate level
- 5) A minimum of 3.0 GPA for any previous work at the graduate level

Degree Requirements

The MHP program requires successful completion of 48 credit hours, which includes a core, electives, and the successful defense of a final Master's project.

Core:

Students must complete all courses

- HP 601 INTRODUCTION TO HISTORIC PRESERVATION (3)
- HP 602 HISTORIC PRESERVATION LAW (3)
- HP 610 AMERICAN ARCHITECTURE I (3)
- HP 611 AMERICAN ARCHITECTURE II (3)
- HP 612 DOCUMENTATION OF HISTORIC BUILDINGS AND SITES (3)
- HP 613 HISTORICAL STRUCTURAL SYSTEMS AND BUILDING MATERIALS (3)
- HP 614 DOCUMENTATION OF HISTORIC BUILDINGS AND SITES II (3)
- HP 616 HISTORIC PRESERVATION AND DESIGN (3)

- HP 617 HISTORIC PRESERVATION PLANNING (3)
- HP 798 RESEARCH DESIGN (3)
- HP 799 MASTER'S PROJECT (2@3, 6 total)

Electives:

Students are required to take 12 or more credits of electives. The electives may be taken from courses offered within the department, or they may be taken from the offerings of other departments across the university.

- Electives offered by the Department of Historic Preservation include:
- HP 501 SELECTED TOPICS IN HISTORIC PRESERVATION (SUBTITLE REQUIRED) (3)
- HP 510 CULTURAL LANDSCAPES AND HISTORIC PRESERVATION (3)
- HP 511 SUSTAINABLE DEVELOPMENT AND HERITAGE (3)
- HP 609 URBAN REVITALIZATION IN THE UNITED STATES (3)
- HP 615 AMERICAN SETTLEMENT PATTERNS: HISTORY OF LAND DEVELOPMENT (3)
- HP 670 RETHINKING PRESERVATION: ETHICS, PUBLIC POLICY, AND HERITAGE RESOURCES (3)
- HP 671 INTRODUCTION TO CULTURAL RESOURCE MANAGEMENT (3)
- HP 675 ARCHITECTURAL HISTORY FOR PRESERVATION PRACTICE (3)
- HP 676 FIELD METHODS IN HERITAGE CONSERVATION (3)
- HP 699 INTERNSHIP (1-6)
- HP 718 ADAPTIVE REUSE (3)
- HP 720 CASE STUDIES IN PRESERVATION (3)
- HP 721 INTERPRETATION OF HISTORIC BUILDINGS AND SITES (3)
- HP 724 ADVANCED HISTORICAL STRUCTURAL SYSTEMS AND BUILDING MATERIALS CONSERVATION (3)
- HP 748 MASTER'S PROJECT RESEARCH (0)
- HP 750 ARCHITECTURE DESIGN STUDIO (3)
- HP 772 SEMINAR IN HISTORIC PRESERVATION: SUBTITLE REQUIRED (3)
- HP 785 INDEPENDENT STUDY IN HISTORIC PRESERVATION (3)

Master's project:

Students have two options for completing their Master's project.

Option 1 follows the format of a traditional academic thesis. It is an original, student-led project that identifies a research question relevant to the field of historic preservation, applies a research methodology appropriate for the question asked, develops a new dataset or examines existing datasets, and analyzes the data to arrive at a well-supported conclusion.

Option 2 is an independent professional project reflecting the type of work historic preservation practitioners are likely to execute in a professional environment. Examples of this type of project might include exceptionally well-researched and well-written nominations to the National Register of Historic Places, proposals for local historic districts that include resource inventories and design review guidelines, Cultural Landscape Reports and Historic Structure Reports that include resource inventories and management plans, and the like.

History, MA

The M.A. degree is available to students seeking a stand-alone (or terminal) M.A. and to students who are seeking an M.A./Ph.D. Many M.A. graduates pursue careers in high school teaching, government service, libraries and archives, and private employment. Others continue on to the Ph.D. program or to doctoral study at other institutions.

Admission Requirements

Students applying for the MA degree program should submit evidence of extensive undergraduate preparation in History (preferably an undergraduate major). Applicants who wish to be considered for financial assistance and fellowships should review the department's web-site for specific deadlines. For additional information on application procedures and requirements, consult:
<https://history.as.uky.edu/history-graduate-program/applying-program>

Degree Requirements

MA Plan A (Thesis)

Credit requirements:

- 30 semester credit hours of coursework and a thesis with a standing of 3.0 (B) or better

Course requirements:

- HIS 606 HISTORICAL CRITICISM
- At least 15 credit hours at the 600 or 700 level (not including 768 hours)
- At least one 700-level research seminar
- At least 16 credit hours must be from Department of History courses (not including 768 hours)
- At least 16 credit hours of regularly scheduled courses (excludes the following course types: independent study, research, residency, practicum)
- A maximum of 6 hours of HIS 768 is allowed
- Students must write an MA thesis under the supervision of a MA advisor. The thesis must be an original work of scholarship and 60-100 pages in length.
- Students must defend the MA thesis in an oral examination before an advisory committee that consists of the student's advisor and two other faculty members. The exam will focus on the thesis, but the student may also be examined over the MA coursework.
- Meet the MA foreign language requirement as outlined in the Graduate School Bulletin and any additional requirements specified by the student's field.

MA Plan B (Non-Thesis) -- Plan B can be satisfied by one of the following two options:

Credit requirements:

- 30 semester credit hours of coursework and an essay with a standing of 3.0 (B) or better

Course requirements:

- HIS 606 HISTORICAL CRITICISM
- At least 21 credit hours at the 600 or 700 level
- Two 700-level research seminars
- At least 21 credit hours of regularly scheduled courses (excludes the following course types: independent study, research, residency, practicum)
- At least 20 credit hours must be from Department of History courses
- Students must write an MA essay under the supervision of a MA advisor. The thesis must be an original work of scholarship and 45-60 pages in length.
- Students must defend the MA essay in an oral examination before an advisory committee that consists of the student's advisor and two other faculty members. The exam will focus on the essay, but the student may also be examined over the MA coursework.
- Meet the MA foreign language requirement as outlined in the Graduate School Bulletin and any additional requirements specified by the student's field.

OR

Credit requirements:

- 36 semester credit hours of coursework and 3 papers with a standing of 3.0 (B) or better

Course requirements:

- HIS 606 HISTORICAL CRITICISM
- At least 24 credit hours at the 600 or 700 level
- Two 700-level research seminars
- At least 24 credit hours of regularly scheduled courses (excludes the following course types: independent study, research, residency, practicum)
- At least 24 credit hours must be from Department of History courses
- The student must submit three papers to an advisory committee. These papers must have been written for graduate credit in the Department of History's MA program. Two of the papers must be research papers that demonstrate competence in historical research and writing, and the third should be a historiographical review essay of at least twenty pages. The student will participate in an oral examination before the advisory committee that is based on these papers.
- Meet the MA foreign language requirement as outlined in the Graduate School Bulletin and any additional requirements specified by the student's field.

For more information about the History MA program and its requirements, see: <https://history.as.uky.edu/history-graduate-program/ma-program>

History, PhD

Students in the History PhD program pursue careers both as academic historians at colleges and universities and as researchers and scholars with libraries and archives, historical societies, and other public and private institutions. The department aims to train its students to be researchers, teachers, and engaged citizens, and the core of the graduate program is built around graduate research and readings seminars. Students must excel in these courses to be prepared to advance to the qualifying exam and the doctoral dissertation.

Admission Requirements

Students applying for the PhD program must have earned an MA degree in History at the University of Kentucky or at another doctoral institution. Applicants who wish to be considered for financial assistance and fellowships should review the department's web-site for specific deadlines. For additional information on application procedures and requirements, consult: <https://history.as.uky.edu/admission>

Degree Requirements

The doctoral program consists of two stages. One involves meeting specific requirements leading to the qualifying examinations, which include:

- HIS 606 (unless the student has taken it for the M.A. degree)
- HIS 750, a one-credit Professional Development Seminar
- Complete a minimum of eight 600- and 700-level reading seminars. (HIS 606 counts toward this requirement; HIS 750 does not; HIS 695 independent study courses do not unless approved by the DGS.) Students who have completed their M.A. degrees at UK may apply all 600- and 700-level seminars completed as an M.A. student toward this requirement.
- Two 700-level research seminars. Students who have completed two 700-level seminars while earning the M.A. at UK need take only one additional research seminar. Students who have written an M.A. thesis in History at another institution may petition to take only one 700-level research seminar
- Achieve a grade point average of 3.6 or higher in the 600- and 700-level seminars
- Meet specific field requirements. Students specializing in U.S. history must take HIS 640 and HIS 641, an additional readings seminar in the pre-1877 period, and an additional readings seminar in the post-1877 period; students specializing in pre-modern and early modern European history must take a minimum of one semester of HIS 705, the Pre-Modern European Colloquium (unless is not offered).
- Satisfy the foreign language requirement as outlined in the Graduate School Bulletin

A second set of requirements pertains to the post-qualifying examination stage of doctoral study. These requirements include:

- Prepare and defend a dissertation prospectus
- Enroll in HIS 767 for two credit hours each semester until finishing the dissertation
- Research, write, and defend a dissertation.

More information about the History PhD program and its requirements can be found at <https://history.as.uky.edu/history-graduate-program/history-graduate-handbook>

Human Resource Management Certificate

The Graduate Certificate in Human Resource Management (GC-HRM) provides an opportunity to obtain a set of competencies to effectively manage an organization's employees and contribute to its talent strategy. The courses within the certificate focus on talent acquisition, talent management, employment law, and the effective use of analytics to manage human capital. The program also features an experiential capstone course giving students the ability to apply principles and techniques learned in their coursework to solve real

organizational problems. This 15-credit certificate is appropriate for recent graduates hoping to learn more and better prepare themselves for a career in human resources and for working professionals who recognize the need to deepen their understanding and update their skills in this increasingly complex field.

Human Technology Interaction Certificate

The certificate in Human-Technology Interaction brings together students in the social, behavioral, and health sciences with students in the design professions. It is intended specifically for:

1. those in the social, behavioral, and health sciences who would like to learn how their disciplinary knowledge can be used to enhance the safety, productivity, and satisfaction of people interacting with both "high-tech" and "low-tech" systems
2. those in the design professions who would like to apply principles derived from the study of human abilities, limitations, and preferences to the design of new or modified technology. Students from engineering, instructional systems design, architecture, graphic design, computer science, and other design fields are welcome to apply
3. those interested in exploring career options in ergonomics, human factors psychology, or usability engineering.

The certificate requires 15 hours of graduate work, including two foundation courses, two elective courses, and one practicum or research experience.

Improving Healthcare Value Certificate

The Graduate Certificate in Improving Healthcare Value is an inter-disciplinary program and will be led by a small team composed of senior faculty members from the College of Public Health, the College of Business and Economics, and the College of Engineering. This certificate is intended to create educational opportunities for UK graduate students in a range of disciplines, for UK HealthCare staff, and for other healthcare workers to enhance their knowledge and skills related to improving the value (quality and cost) of health care services provided by hospitals, health systems, and academic medical centers.

Information Communication Technology, MS

The online graduate program in Information Communication Technology (ICT) is dedicated to advancing and evolving how users interact and manage communication, information, and technology. Students in the program will learn to effectively research, apply, use, and manage technology when solving problems specifically related to information and communication, bridging the gap between the business and technology side of interactions. The program's core courses allow students to obtain the graduate skills that will serve them well in management roles and prepare them to tackle the technology trends of today. Specialty tracks in the program allow students to take a variety of electives and special topics classes in order to give them more in-depth information on some of the many career pathways ICT can offer.

Admission Requirements

- Transcripts showing a Bachelor's degree from an accredited four-year institution with an undergraduate GPA of 3.0 or higher

- Personal Statement explaining (i) why the applicant is seeking admission to the ICT master's program at the University of Kentucky, and (ii) why they are interested in a career as an ICT professional (200-300 words)
- Resume or CV
- Three letters of recommendation

Degree Requirements

Fifteen credits of core coursework:

- ICT 600 INFORMATION COMMUNICATION TECHNOLOGY IN SOCIETY
- ICT 610 ICT RESEARCH METHODS
- ICT 650 INTRODUCTION TO LEADERSHIP IN INFORMATION PROFESSIONS
- ICT 661 INTRODUCTION TO DATA SCIENCE OR ICT 662 DATA ANALYSIS AND VISUALIZATION
- ICT 696 ICT PRACTICUM

Students complete an additional 21 credit hours of electives, completing the program with a total of 36 credit hours. All ICT master's courses are online, asynchronous courses.

A grade point average of 3.00 (B) must be maintained. Failure to do so results in academic probation and will result in dismissal, if, in the prescribed time, the grade point average is not raised to 3.00 or higher. A student who earns a third C (or lower) grade is dismissed from the program even if the student has earned the required minimum 3.00 grade point average.

The MSICT website can be found here: [Online Master's in Information Communication Technology | School of Information Science \(uky.edu\)](#).

Interested applicants might also review our Student Handbook.

Instruction and Administration, EDD

The doctorate (Ed.D.) in Instruction & Administration prepares students to conduct research, teach, and/or assume leadership roles in the field of curriculum & instruction. Graduates of this program pursue a variety of career opportunities, including: becoming university faculty in Curriculum & Instruction departments; assuming advanced leadership positions in schools, districts, and state governments; or working for curriculum development companies or in private consulting, among others. Within the Instruction and Administration Ed.D. program, students may specialize in an educational content area within Curriculum & Instruction, or they may study Curriculum & Instruction more broadly. Due to diverse professional outcomes and optional strands of specialization, coursework is planned by the major professor and advisory committee based on the student's background, needs, and professional goals.

Areas of specialization include:

- Instructional Systems Design (ISD)
- Literacy Education
- Social Studies Education

Admission Requirements

Applicants are evaluated holistically, with attention paid to prior educational achievement and professional experience. In addition to the admission requirements set by the Graduate School, departmental requirements include a statement of professional goals, an autobiographical sketch, professional writing samples, and three letters of professional reference. Interviews are frequently requested. All materials may be submitted through The Graduate School's online application process.

Degree Requirements

A listing of curriculum requirements for the degree program providing detail such as the following:

- Minimum of 42 credit hours beyond the master's degree
- All program plans require coursework in the following areas:
 - Curriculum and Instruction
 - Support work inside and/or outside the College of Education
 - Research methodology courses (minimum of 9 semester hours required)
- Students must successfully complete a qualifying examination consisting of both written and oral components and also present a dissertation which is the result of original research. Additionally, doctoral students are encouraged to enhance their doctoral preparation through teaching, research, and other service opportunities that are available through the department and the college.
- Doctoral students in Instruction and Administration may elect to complete graduate certificates as part of their coursework. Graduate certificates in a) Distance Education and b) Teaching in Culturally & Linguistically Diverse Classrooms are offered within the department. Students are also eligible for graduate certificates housed elsewhere, such as the certificate in Research Methods in Education, offered through Educational Policy and Evaluation.

<https://education.uky.edu/edc/graduate/edd/>

Instructional Coaching Certificate

The graduate certificate in Instructional Coaching prepares veteran educators to lead job-embedded professional development efforts in P-12 schools. The two required courses (ELS Leadership in Communities of Practice, EDL 638 Instructional Coaching and Mentoring) and an elective course (ELS 600 Leadership in Learning-Centered Schools, EDL 669 Leadership for Creative Problem Solving, or ELS 624

Leadership Practicum) provide leadership development focused on facilitating teacher teams, coaching novice and veteran teachers, solving problems creatively, and supporting adoption of innovation and renewal initiatives. This certificate is one of four offered by the Department of Educational Leadership Studies.

Instructional Communication Certificate

The 12-credit hour graduate certificate in Instructional Communication is designed to help students achieve instructional communication competency that can be applied in a wide range of contexts. Specifically, this program will:

1. provide students with a multi-faceted view of instructional communication theory and research methods
2. prepare to students to effectively plan, lead and assess communication effectiveness in diverse instructional contexts
3. provide students with the knowledge and skills to be competitive in a knowledge and technology-driven society.

Integrated Plant and Soil Sciences, MS

The interdepartmental graduate program in Integrated Plant and Soil Sciences offers graduate work leading to the Master of Science (MS) degree with specialization in Crop Science (including weed science and forages), Environmental Science and Ecosystem Ecology (including ecotoxicology, biogeochemistry, environmental chemistry, and ecosystem modeling), Horticultural Science, Plant Biology (including biochemistry, molecular biology, physiology, and seed biology), and Soil Science (biogeochemistry, chemistry, fertility, microbiology, pedology, physics, and rhizosphere science).

With their degree, students will acquire an extensive knowledge of the sciences and technology that support research, education, and technological innovation in plant, soil, and environmental sciences. They will be conversant with the literature, current concepts, and experimental and analytical methods that support research, teaching, and technological innovation in plant, soil, and environmental sciences, and in their application to agriculture and the environment. They will develop skills in critical and analytical thinking and in multiple forms of communication that may be applied to research, education, industry, government, and public service. They will have acquired those elements of professionalism necessary for rewarding and developing careers in plant, soil, and environmental sciences in research, education, production agriculture, agribusiness, government, and public service.

Graduate faculty belong to the Departments of Forestry and Natural Resources (<https://forestry.ca.uky.edu/>), Horticulture (<https://www.uky.edu/hort/>), and Plant and Soil Sciences (<https://pss.ca.uky.edu/>) in the College of Agriculture, Food, and Environment

Financial aid and the research interests of participating faculty can be found on the websites of the participating departments.

Admission Requirements

- All students with strong training in science, including but not limited to baccalaureate degrees in agronomy, biology, chemistry, and horticulture are encouraged to apply.

- Admission to the IPSS Program is competitive and based on the applicant's undergraduate and graduate records, performance on standardized exams if submitted, and letters of recommendation.
- Applicants must have an identified research advisor prior to admission to the program.
- It is expected that applicants will meet the minimum standards established by the University of Kentucky Graduate School.
- Applicants will automatically be considered for departmental research assistantships, which are awarded on a competitive basis.

Degree Requirements

The MS in IPSS is available in two options

- Plan A: 30 credits, which can include up to 6 credits of thesis research, plus a Master's thesis.
- Plan B: 30 credits, plus a Master's project
- In both plans a minimum of 15 credit hours must be at the 600-level or above, and 20 hours must be in organized courses.
 - All students will create a discipline-specific committee (consistent with Graduate School Requirements - 3 members for the MS program), and an individualized program of study within one year
 - Satisfy basic Graduate School requirements for residency, examination, and good standing.
 - Have an overall GPA of 3.0 or better to complete the MS degree and pass a final examination.
 - Plan A students must present an exit seminar and submit an approved thesis.

Required courses include IPS 610, IPS 625, PLS 772, and at least one graduate level statistics course. Additional coursework may be required by the student's thesis or advisory committee.

Graduate students in IPSS have flexibility in designing course work to suit individual goals, but are expected to demonstrate competence in basic areas of plant and soil science and excellence in their chosen area of specialization.

General information on electives and potential courses can be found at <https://ipss.ca.uky.edu/>

Incoming students are informed of the graduate-school and program-specific academic policies at an orientation held before classes begin each fall. A handbook is also on the IPSS website.

Integrated Plant and Soil Sciences, PhD

The interdepartmental graduate program in Integrated Plant and Soil Sciences offers graduate work leading to the Doctor of Philosophy degree with specialization in Crop Science (including weed science and forages), Environmental Science and Ecosystem Ecology (including ecotoxicology, biogeochemistry, environmental chemistry, and ecosystem modeling), Horticultural Science, Plant Biology (including biochemistry, molecular biology, physiology, and seed biology), and Soil Science (biogeochemistry, chemistry, fertility, microbiology, pedology, physics, and rhizosphere science).

With their degree, students will acquire an extensive knowledge of the sciences and technology that support research, education, and technological innovation in plant, soil, and environmental sciences. They will be conversant with the literature, current concepts, and experimental and analytical methods that support research, teaching, and technological innovation in plant, soil, and environmental sciences, and in their application to agriculture and the environment. They will develop skills in critical and analytical thinking and in multiple forms of communication that may be applied to research, education, industry, government, and public service. They will have acquired those elements of professionalism necessary for rewarding and developing careers in plant, soil, and environmental sciences in research, education, production agriculture, agribusiness, government, and public service.

Graduate faculty belong to the Departments of Forestry and Natural Resources (<https://forestry.ca.uky.edu/>), Horticulture (<https://www.uky.edu/hort/>), and Plant and Soil Sciences (<https://pss.ca.uky.edu/>) in the College of Agriculture, Food, and Environment

Financial aid and the research interests of participating faculty can be found on the websites of the participating departments.

Admission Requirements

All students with strong training in science, including but not limited to baccalaureate degrees in agronomy, biology, chemistry, and horticulture are encouraged to apply. Admission to the IPSS Program is competitive and based on the applicant's undergraduate and graduate records, performance on standardized exams if submitted, and letters of recommendation.

Applicants must have an identified research advisor prior to admission to the program.

It is expected that applicants will meet the minimum standards established by the University of Kentucky Graduate School.

Applicants will automatically be considered for departmental research assistantships, which are awarded on a competitive basis.

So that all entering Ph.D. students are at an academic level to successfully complete course requirements, the following courses or their equivalent should have been completed prior to admission: 1. Chemistry - a first semester course in organic chemistry (equivalent to CHE 230); 2. Calculus - a first semester course (equivalent to MA 113); 3. Physics - a first semester course (equivalent to PHY 201).

For PhD students with a specialization in Soil Science, the following additional preparation is suggested: 1. Chemistry - Analytical Chemistry (equivalent to CHE 226) and Organic Chemistry (equivalent to CHE 230 or 236); 2. Introductory Soil Science with a lab (equivalent to PLS 366) and at least two additional soils courses; 3. Biology, two courses in basic biology (equivalent to BIO 151/152) and two additional courses in crop science, plant biology, or microbiology; 4. Statistics, including regression and experiment design (equivalent to STA 570, STA 671, and STA 672). Students are expected to make up deficiencies in these courses within one year of enrollment.

Degree Requirements

For the Ph.D. degree

- A minimum of 36 credit hours of graduate level work of which 18 hours of course work are in residence at the University of Kentucky
- Create a discipline-specific committee (consistent with Graduate School Requirements - 4 members for the PhD Program), and an individualized program of study within one year
- Satisfy basic Graduate School requirements for residency, examination, and good standing
- Have a minimum GPA of 3.0 at graduation
- Successfully complete an oral and written qualifying exam
- Successfully defend the dissertation, present an exit seminar, and submit an approved dissertation.

Required courses include IPS 610, IPS 625, PLS 772, and at least one graduate level statistics course. Additional coursework may be required by the student's dissertation committee.

Details regarding the curriculum, program areas, and areas of specialization can be found in the student handbook.

Graduate students in IPSS have flexibility in designing course work to suit individual goals, but are expected to demonstrate competence in basic areas of plant and soil science and excellence in their chosen area of specialization as demonstrated by novel research leading to a published dissertation.

General information on electives and potential courses can be found at <https://ipss.ca.uky.edu/>

Incoming students are informed of the graduate-school and program-specific academic policies at an orientation held before classes begin each fall. A handbook is also on the IPSS website.

Interdisciplinary Early Childhood Education, MSEDU

The IECE Master of Education program may be completed as an entirely online program, an entirely on-campus program, or as a hybrid program in which a combination of on-campus and online courses are taken. Students completing the program online will enroll in course sections designated for distance students, and students completing the program on-campus will enroll in course sections designated for on-campus students. Both on-campus and online students receive the same content and jointly attend class in technology-enhanced classrooms (i.e., online students participate in synchronous courses through Zoom technology).

The IECE Master of Education program allows students to complete the program with or without conducting a Thesis. Students choosing to conduct a Thesis will complete 30 credit hours. Students choosing not to conduct a Thesis will complete 36 credit hours and present a Capstone Project to program faculty. It is recommended that students discuss Thesis and non-Thesis options with program faculty on an individual basis to determine an appropriate option for completing the IECE Master of Education program.

Admission Requirements

- Transcripts from all higher education institutions attended
- TOEFL or IELTS Scores for all applicants whose native language is not English
- Curriculum Vitae

- Philosophy of Education and Goals Statement
- Three Letters of Recommendation

Degree Requirements

Total credit hours

- 30 credit hours (thesis option)
- 36 credit hours (nonthesis option)

Core requirements

- IEC 620 ASSESSMENT IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION
- IEC 621 ISSUES IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION
- IEC 623 ADVANCED PRACTICUM: INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION
- IEC 710 ADVANCED INSTRUCTIONAL METHODS IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION
- IEC 659 ADVANCED CHILD DEVELOPMENT

Electives

Courses should be selected in consultation with advisor from an approved menu of leadership courses.

- Administration and Program Development
- Curriculum Leadership and Technical Assistance
- Policy and Advocacy
- Higher Education and Research

<https://education.uky.edu/edsrc/iece/med>

Interiors: Planning/Strategy/Design, MAIND

The graduate program in the School of Interiors leads to a post-professional Master of Arts in Interiors: Planning/Strategy/Design. Students undertake a combination of course work, independent study, and research experience to develop a course of study designed to meet each student's career interests. Courses from within and outside the discipline cultivate interdisciplinary design thinking. Using design-related

scholarship/research and creative approaches, students engage in an investigative process leading to an area of design specialization. Each student works with an advising committee in the selection of a written thesis or a design thesis project option and the appropriate courses at the 500, 600, and 700 levels. Applicants that have an undergraduate degree in interior design or a related professional subject matter normally complete the program in two years. Supplementary course work may be required of applicants without professional undergraduate interior design degrees.

Admission Requirements

Potential graduate students must:

1. Apply and be accepted to the Graduate School.
2. Have been granted a baccalaureate degree by an accredited institution with a minimum 3.0 GPA on a 4.0 scale (2.75-3.0 GPA will be considered in relation to other credentials).
3. Have taken the Graduate Record Examination (GRE). For a non-English speaking student, a TOEFL score of 550 or above is required (or a score of 213 on the computer version of TOEFL).
4. After admittance to the Graduate School, apply and be accepted by the School of Interiors

To be reviewed by the school, apply to the graduate program in the School of Interiors through the portal provided by the Graduate School. As part of your application, students will write a personal statement articulating why they wish to study interiors, including career goal aspirations. Additionally, three letters of recommendation regarding academic ability must be included. Students must submit a portfolio to be reviewed and evaluated by a faculty committee. The portfolio may be submitted digitally. If you would like further information on the program, contact the Director.

Degree Requirements

Students undertake the Master of Arts in Interiors with either a Plan A and Plan B option. The thesis option (Plan A) requires 24 hours of course work, six hours of Master's residence credit, and a written thesis with a research emphasis. Plan B requires completion of 30 credit hours, including six hours of ID 700, in which a student develops a design thesis project that engages in innovative problem-solving focusing on the student's area of specialization. A common core of twelve hours, comprised of ID 650, ID 655, and ID 659, is required of all students. Students complete twelve credits of additional course work in the area of concentration. Students must successfully complete a final examination in the form of a thesis defense, which is required for graduation.

International Education Certificate

The graduate certificate in International Education will prepare graduate students for careers in international education, including but not limited to education abroad, international student services, and placement in other international organizations which support the exchange of students. The field of international education is a critical component of the internationalization of higher education in the united states and abroad. This certificate is designed for any graduate student (or admitted postbaccalaureate student) wishing to enhance their graduate degree. The proposed curriculum includes a combination of nine hours of core courses and

six hours of elective coursework. In preparing to complete their certificate, students must identify a regional concentration, and are encouraged to participate in some form of professional or experiential learning opportunity to acquire skills in management, program development, and/or assessment. Although the certificate does not require language coursework as part of the curriculum, participants are also required to describe their language proficiency relative to their professional and regional concentration so that they are aware of and prepared to be competitive in the field.

Kinesiology and Health Promotion, EDD

The Ed.D. program in Kinesiology and Health Promotion is a high-quality graduate program which aims to respond to the needs of individuals looking to advance their careers. The Ed.D. specialty areas serve professionals from various fields through interdisciplinary and practical experiences, particularly those who desire advanced study to enhance professional knowledge and skills in educational, leadership, industrial, or other appropriate settings. Our program allows students to explore specific career options and engage in experiential learning within a small classroom environment which fosters personal and individual attention. Our goal is to enable all graduate students to become successful in their academic and professional career. The Department of Kinesiology and Health Promotion offers two different specializations (Health Promotion and Physical Education) to further interest in a specific area and/or career. Learn more about each specialization below.

Admission Requirements

- A master's degree or 30 semester hours of approved graduate course work with a 3.0 GPA.
- GRE: Not required
- CV
- Personal Statement: Statement of your professional aspirations and explain how you believe graduate study at the University of Kentucky will enhance your ability to achieve those professional goals. In your statement, provide information about your background, research skills and experiences, personal and professional achievements, and educational, work or life experiences that influenced you and your life goals.
- Writing Sample: Students who have not written a Master's level thesis will be required to submit an example of their research writing. A literature review or project from a completed class are acceptable examples for submission for application. Special circumstances will be considered at the discretion of the applicant's designated potential advisor.
- Four letters of recommendation: At least two must be from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

Degree Requirements

HEALTH PROMOTION SPECIALIZATION

The Ed.D. degree with a specialization in Health Promotion prepares students for a career in teaching/mentoring, consulting, policy development, or other leadership roles focused on individual and population health, evidence-based programming, and application of health behavior theory across diverse populations. With the skills and interdisciplinary knowledge students develop through coursework, independent research, community-engaged work, opportunities for teaching and/or professional service, as well as relationships with faculty mentors, they are prepared to lead in a variety of settings including universities, health promotion agencies at every level, healthcare systems and service organizations, and private industry.

The Ed.D. program utilizes a mentor-based admission process. Therefore, students are strongly encouraged to identify a faculty member with whom they wish to work prior to applying to the program.

Degree Requirements

Our Ed.D. degree with specialization in Health Promotion requires students to complete a minimum of 42 hours of course work. The doctoral degree requires students to complete a core of 9-12 hours of health promotion courses, 9 hours of research/statistics/design courses plus supporting electives for a total of at least 42 hours. Students, with the approval of their advisory committee, select elective course work that will enhance their health promotion knowledge and skills as well as their research skills. Additional information, including possible pre-requisites and electives, can be found on the departmental website: <https://education.uky.edu/khp/grad/>

PHYSICAL EDUCATION SPECIALIZATION

The Physical Education Ed.D. program has a required core of classes and sample of electives with an emphasis in specific areas such as physical education, physical activity promotion, epidemiology, sociology, behavioral science, and public health. The goal is to prepare students to teach courses on physical education methods, physical education curriculum, and physical activity promotion at the undergraduate and graduate level, remain up-to-date on the latest research, network with physical education teacher educators (PETE) from across the country and around the world, and exhibit professional work ethic and behaviors as a PETE student/faculty member.

Degree Requirements

The Ed.D. program has a required core of classes and sample of electives. The student may have an emphasis in specific areas of education. Additional information, including possible pre-requisites and electives, can be found on the departmental website: <https://education.uky.edu/khp/grad>

Kinesiology and Health Promotion, MS

The master's program is designed to provide a high-quality graduate program for students who desire advanced study to enhance their professional knowledge and skills as well as for students who complete the master's degree as an intermediate step toward doctoral work. Students can select from a variety of specializations (Biomechanics, Exercise Physiology, Health Promotion, Physical Education, Coaching, and Sport Leadership) to meet their interest areas and career goals as described below.

The objective of the program is to prepare the student to:

- permit an in-depth study of a specialized content area within the field;

- effectively locate, analyze, and use significant elements of the professional literature and research materials;
- acquire a knowledge of sound research procedures; and
- engage in clinical, applied, and/or experiential learning opportunities to enhance students' professional development

The course work and program experiences are designed to enable graduate students in the Department of Kinesiology and Health Promotion to demonstrate:

1. Educational, professional and technological standards.
2. Literacy skills for life-long professional learning.
3. Current, factual, and functional content knowledge.
4. Functional skills and dispositions of professionals.
5. Skills for research and reflection for learning and leading.
6. Skills to plan, implement, and evaluate basic and applied research.
7. Skills to analyze and interpret research data.

To accomplish these outcomes, students are introduced to a combination of departmental course offerings, supporting electives, and a required core of statistics and research methods. Students work with their advisor to tailor course work and additional opportunities to their interests areas and career goals. Master's candidates with the approval of the department may select either a thesis (Plan A) or a non-thesis option (Plan B).

BIOMECHANICS SPECIALIZATION

The specialization in human biomechanics is a multidisciplinary program working together with Kinesiology, Health Sciences, and Engineering. The program helps address critical problems related but not limited to sport, exercise, health, aging, space science and ergonomics.

EXERCISE PHYSIOLOGY SPECIALIZATION

The specialization in Exercise Physiology offers a robust science-based curriculum to prepare students for a variety of careers in research, clinical, and practitioner-based settings. The curriculum offers numerous clinical, applied, and experiential learning opportunities to enhance students' professional development. Students may pursue research or internship-based tracks to effectively prepare for their professional endeavors.

HEALTH PROMOTION SPECIALIZATION

The specialization in Health Promotion is for students passionate about health and wellness who want to make a positive impact on other people's lives. With a flexible distance learning degree option, students will gain advanced professional skills, build professional relationships with top alumni, and engage with internationally recognized faculty in health promotion. The curriculum offers numerous applied and experiential learning opportunities to enhance students' professional development. Students may pursue research or internship-based tracks to effectively prepare for their professional endeavors. Students will also be prepared to sit for the Certified Health Education Specialist (CHES) examination, a professional credential widely respected in the health promotion field.

SPORT LEADERSHIP SPECIALIZATION

The Sport Leadership specialization focuses on preparing leaders in all sport, recreation, and fitness related fields. The goal is to help students develop the knowledge and skills to be more effective practitioners and researchers in the field of leadership.

PHYSICAL EDUCATION SPECIALIZATION

The Physical Education (Teaching) specialization focuses on connecting theory of effective teaching processes and the practice of effective teaching in physical education. In addition to learning about appropriate teaching methods, you learn very valuable experiences in the field. Please note: This degree does not lead to teacher certification.

COACHING SPECIALIZATION

The master's degree with a specialization in coaching is directed primarily at preparing graduate students to be coaches at the elementary school, middle school, high school, and collegiate levels. The aim is to help teaching and coaching master's students develop the knowledge and skills to be more effective practitioners and researchers in the field of coaching.

Admission Requirements

Applicants must meet the Graduate School requirements set forth in the first part of this Bulletin as well as those set forth for each specialty area. Additional information can be found on the departmental website and is briefly summarized below: <https://education.uky.edu/khp/grad/> Specific prerequisites for graduate study at the master's level are determined by a committee of the departmental graduate faculty based upon area of emphasis.

- Priority deadline for upcoming academic year: February 1
- Fall: July 15 (international students: April 15)
- Spring: December 1 (international students: August 22)

Please note: all of our specializations are slightly different so information on each is included below.

BIOMECHANICS SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: not required A total of three letters of recommendation are required.
- A minimum of 2 out of 3 of these letters must be submitted by someone with a terminal degree (i.e. Ph.D., M.D., Ed.D., etc.) and must be from a person with direct knowledge of the applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

EXERCISE PHYSIOLOGY SPECIALIZATION

- Students must contact a program faculty member prior to applying to the program. It is important to identify a faculty member for which the student has similar research/scholarly interests.
- Personal Statement (must indicate a primary and secondary program faculty member)
- GRE Requirements: Not required
- GPA requirement: 3.2 or higher

HEALTH PROMOTION SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: Not required.
- GPA requirement: 2.75 or higher
- Resume/CV
- A professional goal statement describing the applicant's professional background, motivations for seeking a graduate education in this specialty area, why the current program is an ideal fit, and career/research aspirations.
- Three letters of recommendation: At least two must be from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

SPORT LEADERSHIP SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: not required.
- GPA requirement: 2.75 or higher
- Three letters of recommendation

PHYSICAL EDUCATION SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: Not required.
- GPA requirement: 2.75 or higher
- Three letters of recommendation

COACHING SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: Not required.
- GPA requirement: 2.75 or higher
- Three letters of recommendation

Degree Requirements

Please note: all of our specializations are slightly different so information on each is included below.

BIOMECHANICS SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the biomechanics specialization. A minimum of 30 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Methods (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or STA 580 / CPH 580 or EPE 558 / EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (12 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Thesis (6 hours)

Plan B

- Research Methods (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or STA 580 / CPH 580 or EPE 558 / EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (15 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Independent research/study (3 hours)

EXERCISE PHYSIOLOGY SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the exercise physiology specialization. A minimum of 30 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557 / EDP 557 - Basic Statistical Analysis or equivalent (3 or 4 credits)

- Area of concentration (12 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Thesis (6 hours)

Plan B

- Research Methods (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557 / EDP 557 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (15 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Independent research/study (3 hours)

HEALTH PROMOTION SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the health promotion specialization. A minimum of 33 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 569, STA 570, or EPE 558 / EDP 558 or PSY 610 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (9 hours)
 - KHP 674 FOUNDATIONS OF HEALTH PROMOTION (3)
 - KHP 673 HEALTH PROMOTION AND BEHAVIOR CHANGE (3)
 - KHP 677 PLANNING HEALTH PROMOTION PROGRAMS (3)
- Disciplinary Support/Supporting Electives (12 hours)
- Thesis (6 hours)

Plan B

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 569, STA 570, or EPE 558 / EDP 558 or PSY 610 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (9 hours)
 - KHP 674 FOUNDATIONS OF HEALTH PROMOTION (3)
 - KHP 673 HEALTH PROMOTION AND BEHAVIOR CHANGE (3)
 - KHP 677 PLANNING HEALTH PROMOTION PROGRAMS (3)
- Disciplinary Support/Supporting Electives (15 hours)
- Internship (3 hours)
- KHP 679 HEALTH PROMOTION & HEALTH COACHING INTERNSHIP (3)

SPORT LEADERSHIP SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the sport leadership specialization. A minimum of 30 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (12 hours)
 - KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT (3 hours)
 - KHP 683 LEADERSHIP, THEORY, AND PRACTICE IN SPORT AND FITNESS ORGANIZATIONS (3 hours)
 - KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3 hours)
 - KHP 685 SUPERVISION OF SPORT AND FITNESS PERSONNEL (3 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Thesis (6 hours)

Plan B

- Research Methods (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (15 hours)
 - KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT (3 hours)
 - KHP 683 LEADERSHIP, THEORY, AND PRACTICE IN SPORT AND FITNESS ORGANIZATIONS (3 hours)
 - KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3 hours)
 - KHP 685 SUPERVISION OF SPORT AND FITNESS PERSONNEL (3 hours)
 - KHP 688 EVENT MANAGEMENT IN SPORT (3 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Internship (3 hours)
- KHP 687 PRACTICUM IN SPORT MANAGEMENT (3 hours)

PHYSICAL EDUCATION SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the teaching specialization. A minimum of 30 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (6 hours)

- KHP 601 TEACHING EFFECTIVENESS AND LEADERSHIP IN KINESIOLOGY AND HEALTH EDUCATION (3 hours)
- KHP 602 PROMOTING PHYSICAL ACTIVITY FOR YOUTH (3 hours)
- Disciplinary Support/Supporting Electives (12 hours)
- Thesis (6 hours)

Plan B

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (6 hours)
 - KHP 601 TEACHING EFFECTIVENESS AND LEADERSHIP IN KINESIOLOGY AND HEALTH EDUCATION (3 hours)
 - KHP 602 PROMOTING PHYSICAL ACTIVITY FOR YOUTH (3 hours)
- Disciplinary Support/Supporting Electives (18 hours)

COACHING SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the coaching specialization. A minimum of 30 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (9 hours)
 - KHP 601 TEACHING EFFECTIVENESS AND LEADERSHIP IN KINESIOLOGY AND HEALTH EDUCATION (3 hours)
 - KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT (3 hours)
 - KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3 hours)
- Disciplinary Support/Supporting Electives (9 hours)
- Thesis (6 hours)

Plan B

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (9 hours)
 - KHP 601 TEACHING EFFECTIVENESS AND LEADERSHIP IN KINESIOLOGY AND HEALTH EDUCATION (3 hours)
 - KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT (3 hours)
 - KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3 hours)

- Disciplinary Support/Supporting Electives (15 hours)

Latin American, Caribbean, and Latino Studies Certificate

This certificate is directed primarily at graduate students whose intended academic and/or professional careers in research, teaching, and public or private sectors incorporate a focus on the geographical and cultural region of Latin America, the Caribbean, and the populations of Latin American and Caribbean descent living in the United States, Europe, and other parts of the world. It provides graduate students with the skills and knowledge to connect Latin American, Caribbean, and Latino topics to their research agendas. It is pursued concurrently with the regular MA and PhD degree programs of participating departments. To be awarded the graduate certificate in Latin American, Caribbean, and Latino/a studies, the student must successfully complete four courses amounting to 12 graduate credit hours with an overall GPA of 3.0 or higher.

Latin Studies Certificate

The Latin Studies certificate curriculum, consisting of a sequence of four courses in Latin language and literature, aims at two groups of students in particular. First, it is aimed at graduate students who need strong Latin skills for any academic discipline in which Latin is important, including not only classics, but also history, philosophy, theology, etc., and who are already engaged in, or hope to undertake advanced study in one or more of these fields. The certificate curriculum will offer to such students an interdisciplinary opportunity to gain a superior command of Latin in a highly concentrated format, but in a relatively brief period of time. Second, it is aimed at the training of new Latin teachers for the high school level and even pre-high school instruction. The Latin studies certificate curriculum will be highly useful for those interested in teaching Latin, because it will provide a much deeper immersion in Latin language and literature than what has so far been usual for students seeking careers as Latin teachers, and will ensure that all who complete it acquire not merely reading skills, but also considerable active command of the language.

Leadership for Deeper Learning Certificate

The graduate certificate in Leadership for Deeper Learning examines the systemic changes to teaching and learning within schools. The courses within the certificate (EDL 662 Leading for Next Generation Learning, EDL 664 Assessment Leadership, ELS 620 Leading Action Research and Inquiry 1) focus on inquiry learning, project-based learning, performance assessments, competency learning models, and a variety of other components of systems of teaching and learning that provide deeper, more equitable learning opportunities for students in educational organizations. This certificate is one of four offered by the Department of Educational Leadership Studies.

Lean Systems Certificate

Lean Systems is a proven technique for reducing waste, improving productivity, and increasing the bottom line found to be effective across many industries, businesses, and organizations. Companies spend a lot of money educating their current employees and place a high premium on new graduates who have already acquired knowledge in the field. The graduate certificate in lean systems is based on the Toyota production system (TPS) and requires 12 credit hours of coursework.

Liberal Studies Certificate

There is a persistent and growing demand among employers for workplace professionals who possess strong communication, research, and critical thinking skills beyond those attained as undergraduates. These skills can be difficult for people to continue developing after completion of the initial Bachelor's degree.

Drawing on the Liberal Arts disciplines, the Online Graduate Certificate in Liberal Studies offers students the possibility to develop proficiencies from among a cluster of significant employment-related skills, such as critical and complex thinking, clear writing and communication, effective collaboration, research, cultural literacy, and awareness and sensitivity to the context and historical attributes of key issues in today's society.

The certificate's flexible curriculum allows students to easily tailor highly individualized programs of study to their own pace. The certificate will augment students' career and professional opportunities by helping them to become better decision makers; more effective strategists and thinkers; better leaders and team members; more socially and historically aware citizens; and more adept writers and communicators.

The Graduate Certificate requires 12 credit hours of coursework including one core course (PHI 522 Advanced Critical Thinking) and three additional courses from the list of approved courses (students must take courses from at least two of the five fields of inquiry).

Library Science, MSLS

The MSLS program has continuing accreditation from the American Library Association and is the only ALA-accredited Library Science program in Kentucky. Offered fully online, the program prepares students to work as information professionals in a variety of settings like medical, public, academic, and school libraries.

Academic concentrations within the MSLS program include academic libraries, health information, information technology and systems, public libraries, school libraries, youth services and literature, and a generalist option.

Admission Requirements

The MSLS program invites applicants to apply for the fall, spring, and summer semesters.

Admission to the program requires:

- a bachelor's degree from an accredited institution
- a grade point average of 3.0 or higher (4.0 scale) on any prior undergraduate or graduate work
- submission of a personal statement and current resumé/CV
- three letters of recommendation from academic and/or professional references

Degree Requirements

To earn the MSLS, students must complete a total of 36 credit hours, successfully pass the exit requirement, and have a GPA of 3.0 or higher.

Within the 36 hours, students must complete 4 required core courses (12 hours), 1 technology course (3 hours), and 7 elective courses (21 hours). The required core courses are as follows:

- LIS 600 INFORMATION IN SOCIETY
- LIS 601 INFORMATION SEARCH
- LIS 602 KNOWLEDGE ORGANIZATION
- LIS 603 MANAGEMENT IN INFORMATION ORGANIZATIONS

Elective offerings span across the concentration areas. With prior permission of the Director of Graduate Studies, students may also elect to complete up to 6 hours of coursework outside of Library Science to count toward their degree.

Student in the school libraries concentration may have more restricted election options as they fulfill the requirement for school library media certification and change of rank.

Linguistic Theory and Typology, MA

The MA in Linguistic Theory & Typology (MALTT) offers training by a world class faculty in theoretical frameworks for approaching descriptive, historical, and sociolinguistic data with a special focus on how grammatical features are distributed across the world's languages. Emphasis is given to language modeling and analysis through computational and quantitative methods. In addition to providing invaluable intellectual preparation for doctoral studies in linguistics, the MALTT program prepares students for careers in high-tech industries, text-based consultancies in law and medicine, and jobs in government agencies.

Admission Requirements

We welcome students with a BA/BS major or minor in Linguistics. Students with degrees in cognate disciplines are also welcome to apply but will have to take an introductory course in linguistics prior to enrollment. We run such a course as a summer online course. Minimum GPA is 3.3. Funded positions are available (TA, RA) on a competitive basis.

Degree Requirements

Students take 30 hours of LIN course work and complete a thesis. The course work must include at least 15 hours taken at the 600 or 700 level. Mandatory courses are LIN 601 RESEARCH METHODS IN LINGUISTICS and LIN 701 RESEARCH SEM IN LIN THEORY AND TYPOLOGY. All students must take a syntax course (LIN 512, LIN 622 or LIN 712) and a phonology course (LIN 515, LIN 615 or LIN 715). Students must also take a course in either morphology (LIN 505, LIN 605, LIN 705) or a course in phonetics (LIN 500, LIN 600 or LIN 700). The thesis component consists of a written research project and oral examination. The thesis must be approved by a committee of three faculty.

Manufacturing Systems Certificate

Competitive markets require manufacturing organizations to be increasingly efficient, innovative and sustainable. Highly skilled manufacturing engineers with advanced technical knowledge and capabilities are essential to the success of these organizations. The Manufacturing Systems certificate program is designed to develop manufacturing engineers with the knowledge, skills and attitude required for value creation by designing, manufacturing and managing more sustainable products, processes and systems. The certificate is structured as a four course program with all courses available entirely online. It provides graduate level qualifications for engineers and manufacturing professionals in industry who are interested in expanding their qualifications with less of a time investment than is required for a full master's degree.

Manufacturing Systems Engineering, MSMSYE

Admission Requirements

To be considered for admission to the Manufacturing Systems Engineering MS program, students are required to have:

- A GPA of at least 2.8 out of 4.0 scale (exceptions may be made by the admissions committee if persuasive evidence of applicant's potential is presented) with:
 - A BS degree in engineering or equivalent, or
 - A BS in a physical science or a related area will also be considered but may require additional preparatory coursework.
- GRE scores are NOT required for admission to the Manufacturing Systems Engineering MS program. However, applicants must note that GRE scores must be submitted if they are interested in being considered for any graduate fellowships.
- TOEFL or IELTS scores for all international students (except those with a degree from an accredited U.S. institution). Currently, for admission:
 - The minimum acceptable total TOEFL-iTB score is 79. This is considered equivalent to our currently acceptable minimum scores of 550 on the paper-based and 213 on the computer-based tests.
 - The minimum acceptable IELTS overall band score is 6.5.

Degree Requirements

MSMSYE Plan A: Thesis Option

- Credit Requirements:
 - The thesis plan requires thirty (30) credit hours of coursework and a thesis.
- Course Requirements:
 - Four core courses (MFS 505, MFS 605, MFS 606, MFS 613) must be completed. The remaining six courses can be selected from the list of other MFS courses as well as non-MFS prefix courses. Students can take up to six credit hours of MS residency (MFS 768) to satisfy the credit requirements.
 - At least two thirds of the courses must be from the MFS program (MFS prefix).
 - At least 15 credit hours must be earned from courses at the 600-level or above.
 - A maximum of 6 credit hours of MFS 780 may be included.

MSMSYE Plan B: Non-Thesis Option

- Credit Requirements:
 - The non-thesis option is reserved for students who have significant experience in a manufacturing environment, where completion of a thesis would be less beneficial than

the additional course work involved in Plan B. The non-thesis option requires thirty hours (30) of course work.

- Course Requirements:
 - Four core courses (MFS 505, MFS 605, MFS 606, MFS 613) must be completed. The remaining courses can be selected from the list of other MFS courses as well as non-MFS prefix courses.
 - At least two thirds of the courses must be from the MFS program (MFS prefix).
 - At least 15 credit hours must be earned from courses at the 600-level or above.
 - A maximum of 6 credit hours of MFS 780 may be included.

Marketing, MS

The Master of Science in Marketing is a one-year graduate program designed to provide students with in-depth course work in key marketing topics. This program will include core content focused on the areas of strategic marketing, marketing research, new product development, personal selling and sales management, consumer insights, marketing analytics and data visualization, corporate social responsibility marketing communications, digital marketing, and branding.

Admission Requirements

Applicant must meet requirements of the Graduate School for admission. Students will need a GMAT/GRE score as part of the application.

Degree Requirements

This is a 30 credit hour non-thesis option MS program.

Core requirements including course information

MKT 600 MARKETING MANAGEMENT

MKT 601 MARKETING RESEARCH

MKT 610 CONSUMER INSIGHTS AND ANALYSIS

MKT 611 NEW PRODUCT DEVELOPMENT

MKT 615 MARKETING COMMUNICATIONS & SOCIAL MEDIA

MKT 620 DIGITAL MARKETING & ANALYTICS

MKT 622 PERSONAL SELLING & SALES MANAGEMENT

MKT 625 BRANDING

MKT 629 MARKETING ANALYTICS & DATA VISUALIZATION

MKT 651 CORPORATE SOCIAL RESPONSIBILITY

There are no elective courses.

- Link to program website (optional)

<https://gatton.uky.edu/programs/masters/master-science-marketing>

Materials Science and Engineering, MSMSCE

The Department of Chemical and Materials Engineering offers programs leading to the M.S. and Ph.D. degrees in Materials Science and Engineering, with research specialization in the following areas:

- Ceramics
- Electronic Materials
- Metals and Alloys
- Micro-Materials
- Nanomaterials
- Polymers and Composites
- Surfaces and Interfaces
- Thin Film

Admission Requirements

Admission to the M.S. degree program is on a competitive basis, and financial assistance is available through teaching and research assistantships, as well as a limited number of fellowships. Applicants should have a minimum grade point average of 3.0/4.0 on all undergraduate work. Persons with backgrounds in any physical science or engineering discipline are encouraged to apply, as each applicant's qualifications are reviewed individually. Minimum requirements for admission include a bachelor's degree and four semesters of university-level calculus, calculus-based physics, and chemistry. Please note that meeting the minimum requirements does not guarantee admission, as acceptance is on a competitive and space-available basis.

Degree Requirements

The master's degree is offered under Plan A (thesis option) and Plan B (non-thesis option). Candidates for the degree under Plan A must complete a minimum of 30 hours of graduate courses to include, if desired, no more than 6 credit hours of MSE 768 and submit and defend a thesis that demonstrates research ability. The required course work includes the materials science core (MSE 632 MSE 635 MSE 650 MSE 781) as well as appropriate electives selected in consultation with the Director of Graduate Studies. In certain exceptional cases (as determined by the faculty), a non-thesis M.S. may be undertaken (Plan B). The non-thesis option requires 30 hours of course work that includes the materials science core, and is only available to those students with prior research or industrial experience. For both Plan A and Plan B, at least half of all graduate course work must be at the 600 level or above.

Materials Science and Engineering, PhD

The Department of Chemical and Materials Engineering offers programs leading to the M.S. and Ph.D. degrees in Materials Science and Engineering, with research specialization in the following areas:

- Ceramics
- Electronic Materials
- Metals and Alloys
- Micro-Materials
- Nanomaterials
- Polymers and Composites
- Surfaces and Interfaces
- Thin Film

Admission Requirements

Admission to the M.S. and Ph.D. degree programs is on a competitive basis, and financial assistance is available through teaching and research assistantships, as well as a limited number of fellowships. Applicants should have a minimum grade point average of 3.0/4.0 on all undergraduate work. Persons with backgrounds in any physical science or engineering discipline are encouraged to apply, as each applicant's qualifications are reviewed individually. Minimum requirements for admission include a bachelor's degree and four semesters of university-level calculus, calculus-based physics, and chemistry. Please note that meeting the minimum requirements does not guarantee admission, as acceptance is on a competitive and space-available basis.

Degree Requirements

The Ph.D. program offers broad training in materials science and engineering while providing options to suit the student's particular interests and designated area of specialization. The student must conduct original and significant research and must submit and defend a dissertation based on that research. Doctoral students complete the materials science core, and work with their doctoral advisory committee to develop a program of elective courses designed to address deficiencies and to enhance the specialization area of interest. In addition, students must demonstrate proficiency in a minor area selected from the fields of mathematics, physical sciences, or engineering.

In order to advance to candidacy, doctoral students must pass an oral qualifying examination that tests the candidate's knowledge in three fundamental areas of Materials Science and Engineering: Structure of Materials, Mechanical Behavior of Materials, and Thermodynamics of Materials. There is no language requirement for the M.S. or Ph.D. degrees in Materials Science and Engineering.

Mathematics, MA

The Master of Arts degree, featuring a core program that emphasizes mathematical structures, is designed for prospective community college teachers and for students contemplating studies at the Ph.D. level.

Admission Requirements

The MA program in Mathematics does not have formal admission requirements other than those of the Graduate School. Admission, however, is competitive. The admissions committee reviews transcripts, letters of recommendation, and the candidate's personal statement, seeking evidence of mastery in proof-based mathematics (such as analysis, topology, and modern algebra), the ability to craft mathematical proofs, and general mathematical maturity.

Degree Requirements

- Students must complete 30 hours of graduate work in Mathematics and related areas.
- Of these 30 hours, students must have:
 - At least 20 hours in Mathematics courses,
 - At least 15 hours at the 600 level or above, with
 - At least 12 hours in Mathematics courses at the 600 level or above.
- There is substantial flexibility in the courses a student may take for the MA degree.
- Students may select from Plan A (thesis option) or Plan B (non-thesis option).

Mathematics, MS

The Master of Science degree, through an emphasis on the applications of mathematics and the acquisition of computational skills, focuses on careers in business, industry, and government.

Admission Requirements

The MS program in Mathematics does not have formal admission requirements other than those of the Graduate School. Admission, however, is competitive. The admissions committee reviews transcripts, letters of recommendation, and the candidate's personal statement, seeking evidence of mastery in proof-based mathematics (such as analysis, topology, and modern algebra), the ability to craft mathematical proofs, and general mathematical maturity.

Degree Requirements

- Students must complete 30 hours of graduate work in Mathematics and related areas.
- Of these 30 hours, students must have:
 - At least 20 hours in Mathematics courses,
 - At least 15 hours at the 600 level or above, with
 - At least 12 hours in Mathematics courses at the 600 level or above.
- There is substantial flexibility in the courses a student may take for the MS degree.
- Students may select from Plan A (thesis option) or Plan B (non-thesis option).

Mathematics, PhD

The Mathematics PhD is a research degree granted on the basis of broad mathematical knowledge and exhibited creative ability. Course work leading to the doctorate is available in the areas of algebra, analysis, applied mathematics, discrete mathematics, numerical analysis, partial differential equations, and topology. In order to be admitted to candidacy for the PhD degree, a student must complete studies in a minor field (either inside or outside the department) and successfully complete three written preliminary examinations. Subsequent work becomes highly specialized through seminars and independent study. Finally, work on a dissertation is an original contribution to the candidate's major field.

Admission Requirements

The PhD program in Mathematics does not have formal admission requirements other than those of the Graduate School. Admission, however, is competitive. The admissions committee reviews transcripts, letters of recommendation, and the candidate's personal statement, seeking evidence of mastery in proof-based

mathematics (such as analysis, topology, and modern algebra), the ability to craft mathematical proofs, and general mathematical maturity.

Degree Requirements

- Complete 36 credit hours.
- Pass three comprehensive examinations prior to advancing to the research stage of the program.
- Complete studies in a minor field (either inside or outside the department).

Mechanical Engineering, MSME

Admission Requirements

Applicants seeking admission to the graduate program in the Department of Mechanical Engineering (ME) as regular students must have an awarded baccalaureate degree. Admission to the ME graduate programs normally requires a Bachelor's degree in engineering (not necessarily in Mechanical Engineering) and a grade point average (GPA) of 3.0/4.0 or 70% on all graduate and undergraduate work, as well as Graduate Record Examination (GRE) scores of at least 300 (new scoring system) for the combined Quantitative and Verbal sections (with at least 160 on the quantitative section) and 3.5 for the Analytical section. An undergraduate degree in Mathematics, Chemistry or Physics combined with a strong interest in engineering topics may be suitable preparation when certain required undergraduate courses are taken (contact program for further details). Exceptions to these requirements may be made by the Director of Graduate Studies if other persuasive evidence of the student's potential for success is available.

Degree Requirements

MSME Option A (Thesis Plan)

Credit Requirements:

- MSME Option A requires a minimum of 30 semester hours of coursework and a thesis.
- Course Requirements:
- 30 credit hours required for a MS degree, where 6 credit hours of MS residency (ME 768) is suggested. Research courses (including ME 790) do not count toward the required credit hours.
- At least 6 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list, where at least 3 credit hours are from courses with prefixes MA or STA. See Appendix F of the ME Graduate Handbook for further information.
- A maximum of 6 credit hours of ME 780 (Independent Study), and a maximum of 6 credit hours of ME 768 may be included.

- Students are required to register for ME 799 MECHANICAL ENGINEERING GRADUATE SEMINAR 2 times during their degree.

MSMEE Option B (Non-Thesis Plan)

Credit Requirements:

- MSMEE Option B requires a minimum of 30 semester hours of coursework.
- Course Requirements:
- 30 credit hours required for a MS degree. MS residency (ME 768) and research courses (including ME 790) do not count toward the required credit hours.
- At least 6 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list, where at least 3 credit hours are from courses with prefixes MA or STA. See Appendix F of the ME Graduate Handbook for further information.
- A maximum of 6 credit hours of ME 780 (Independent Study) may be included.
- Students are required to register for ME 799 MECHANICAL ENGINEERING GRADUATE SEMINAR 2 times during their degree.

Mechanical Engineering, PhD

The Ph.D. degree is a research degree granted on the basis of broad knowledge of mechanical engineering and in-depth study in a specific area leading to a dissertation reflecting original work by the doctoral candidate.

Admission Requirements

Applicants seeking admission to the graduate program in the Department of Mechanical Engineering (ME) as regular students must have an awarded baccalaureate degree. Admission to the ME graduate programs normally requires a Bachelor's degree in engineering (not necessarily in Mechanical Engineering) and a grade point average (GPA) of 3.0/4.0 or 70% on all graduate and undergraduate work, as well as Graduate Record Examination (GRE) scores of at least 300 (new scoring system) for the combined Quantitative and Verbal sections (with at least 160 on the quantitative section) and 3.5 for the Analytical section. An undergraduate degree in Mathematics, Chemistry or Physics combined with a strong interest in engineering topics may be suitable preparation when certain required undergraduate courses are taken (see Appendix A for further details). Exceptions to these requirements may be made by the Director of Graduate Studies if other persuasive evidence of the student's potential for success is available.

Degree Requirements

Course Requirements:

Students without an MS Degree

- 36 credit hours required for a PhD degree. Residency and research courses (including ME 790) do not count toward the required credit hours.
- At least 6 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list, where at least 3 credit hours are from courses with prefixes MA or STA. See Appendix F for further information.
- At least 18 credit hours at the 600-level or greater (ME 790 is excluded, and only 3 credit hours of ME 780 may be included).
- At least 18 credit hours from courses with the prefix ME

Students with an MS Degree in Mechanical Engineering

- 18 credit hours required for a PhD degree. Residency and research courses (including ME 790) do not count toward the required credit hours.
- At least 3 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list. See Appendix F for further information.
- At least 9 credit hours at the 600-level or greater (ME 790 is excluded, and only 3 credit hours of ME 780 may be included).
- At least 9 credit hours from courses with the prefix ME

Students with an MS Degree in another discipline

- Up to 18 credit hours may be waived for the PhD degree course degree requirement upon the approval of student's advisor, DGS and graduate school. The student's PhD committee determines the course requirements with the approval of the DGS
- The total number of credit hours the student must take for a PhD will be 36 minus the number of credit hours waived by the department. Residency and research courses (including ME 790) do not count toward the required credit hours.
- Math requirement:
 - If at least 3 credit hours were waived for a student from an acceptable math course, the student must take at least an additional 3 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list.
 - If no math courses were waived for a student, the student must take at least 6 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list, where at least 3 credit hours are from courses with prefixes MA or STA.
- At least 50% of the required credit hours must be at the 600-level or greater (ME 790 is excluded, and only 3 credit hours of ME 780 may be included).
- Independent work, taken as part of ME 780, cannot be included in the required coursework when the course material is related to the student's dissertation topic.
- At least 50% of the required credit hours must be from courses with the prefix ME.

Advisor & Advisory Committee

Each student's program is guided by a major professor and an advisory committee throughout the student's graduate career. Their functions are to provide continuity of direction and counsel and to instill intellectual stimulation throughout the entire doctoral program. **PhD students are required to select an advisor within the first semester (or earlier).** Students should also with the help of their advisor select their advisory committee during the second semester and no later than the completion of 18 credit hours of graduate work. The Advisory Committee provides advice to the student and sets specific program requirements (within

applicable Department, Graduate School, and University regulations) which the student must satisfy. The Graduate School determines the regulations concerning the makeup of the advisory committee. The rules for the advisory committee are found in the Graduate School Bulletin.

Students are required to submit their advisory committee for DGS and Graduate School approval. This is required before any exams can be scheduled.

Residency & Post Residency Requirements

The Graduate School requires students fulfill residency requirement within the doctoral program in order to encourage students to experience contact with the academic community and the intellectual environment that characterizes a university. Students are required to complete the equivalent of two years of residency (36 credit hours) prior to the PhD Oral Qualifying examination and one year (2 semesters) of Post-qualifying residency. Please refer to the Graduate School Bulletin for Residency/Post Residency requirements. An awarded MS degree from the University of KY or another accredited school may satisfy 18 of this 36-hour pre-qualifying requirement. Such requests should be made by the Faculty advisor to the DGS and then to the Senior Associate Dean of the Graduate School.

Written Qualification Examination

PhD students are required to take and pass the PhD Written Qualification Examination which constitutes the written portion of the Qualifying Examination required by the Graduate School.

This written exam tests knowledge in specific required undergraduate topic areas, but exams will be sufficiently difficult to test mastery of these concepts.

Students have up to 2 seatings during which they must pass one written exam in mathematics and two additional exams in other topic areas. The two additional topic area exams must be selected from the seven listed in Appendix D. Seatings will occur twice a year: during the first full week in February (spring exams) and during the first full week after the Labor Day holiday (fall exams). Once a student passes an exam on a topic, they do not need to retake it. No student will be permitted to take exams in more than 2 seatings.

Failure to pass the math exam and two additional exams by the end of the student's second seating will result in the student's dismissal from the ME doctoral program. Failure to complete the Written Qualification Exam within the specified time limit as outlined in Appendix D will result in the student's dismissal from the ME doctoral program.

Exams and exam syllabi are prepared by the corresponding qualifying exam topic area committees; exams are graded by the same topic area committees. Detailed information on the written qualifying exam procedures can be found in Appendix D.

Oral Qualifying Examination

PhD students are required to take and pass the PhD Oral Qualifying Examination. This exam inspects the soundness of the students proposed doctoral dissertation research plan. A prospectus prepared by the student and submitted to the student's Advisory Committee is required at least two (2) weeks in advance of the exam. Only those who have passed the written qualifying exam and have satisfied all ME course requirements may sit for this exam. The Graduate School provides the regulations for this exam.

Publication Requirement

PhD students are expected to have submitted at least three (3) papers to archival journals, with at least one (1) having been accepted before sitting in their final examination.

Final Examination

This exam is the dissertation defense and is mandated by the Graduate School and all Graduate School regulations regarding this exam must be met. Graduate School regulations concerning the final exam are included in the Graduate School bulletin.

Students planning on taking the PhD final examination are required to notify the Graduate School a minimum of eight (8) weeks prior to the intended date.

During that eight-week period, the Graduate School will appoint an Outside Examiner from an outside department on campus. Following the appointment of the Outside Examiner, students may set the final exam date at least two weeks prior to the examination.

Students are expected to provide delivery of the complete dissertation to the student's advisor four (4) weeks prior, and to the committee a minimum of two weeks prior. The Graduate School will send announcements to of the examination to each advisory committee member and to the PhD candidate.

The final exam is open to the public and must take place while classes are in official session. They may not be scheduled between semesters or between the end of Summer Session II and the beginning of the Fall semester. Students may not sit for the final exam until all remaining "I" grades in credit bearing courses have been assigned letter grades. PhD students must be enrolled to sit for the exam.

The Graduate Student Coordinator, working with the DGS and the Graduate School, will provide the Final Exam card prior to the beginning of the Final Examination. If the examination card has not been received, the Committee Chair or DGS must call the Associate Dean of the Graduate School to determine whether the examination may proceed.

The Final Examination may not begin until all voting members of the Advisory Committee are present. The names of the voting members will be on the Final Examination card; names of non-voting members will not be on the card. All committee members must be present for the entire examination process. If a Committee member is in contact via electronic means, such as pre-approved telephone or interactive video (ITV) conference, and the connection is lost, the examination proves must stop until the connection is reestablished.

The Final Examination may be cancelled at any time prior to its official start for substantive reasons with no permanent consequences for the student. The student has not failed the examination in this case because the exam had never begun. Substantive reasons for an exam cancellation can include a missing advisory committee member, a sudden difficulty in the candidate's personal life that may affect examination preparation and/or performance, or a late opinion on the part of the one or more committee members that the dissertation is not ready to defend. In such cases, the committee should discuss the issues at hand and reach a decision on whether to hold the examination. The candidate also has the right to cancel the Final Examination *prior* to its start. If the examination is cancelled, it must be formally rescheduled with the Graduate School with a minimum two-week interval.

The Final Examination must be completed once it has begun. The committee vote must be recorded on the Examination card, and scores entered on the score sheets, with the signatures of all voting members. There are only two possible outcomes: Pass or Fail, and these outcomes must be consistent with the score appearing on the score sheet for each voting member. The Examination may not be suspended to permit the candidate to correct deficiencies. The only suspensions that are permitted are short breaks to allow the

candidate or committee to refresh themselves. No refreshments beyond bottled water will be permitted in the exam without pre-approval by the DGS.

Submission of the Dissertation

The final copy of the dissertation is prepared and submitted to the Graduate School after the Final Examination is passed and all committee requirements have been met. *Instructions for the Preparation of Theses and Dissertations* on the Graduate School website provides the requirements for dissertation preparation and submittal.

The dissertation must be received by the Graduate School within 60 days of the Final Examination. The candidate must be re-examined if this deadline is not met. The dissertation must be accepted by the Graduate School by the last class day of the semester in which the candidate will graduate. PhD candidates must fill out and submit an ETD form for their dissertation. Please follow the guidelines and find the form on the Graduate School's website.

Medical Sciences, MS

The Master of Science in Medical Sciences (MSMS) is a broad interdisciplinary degree program housed in the College of Medicine. Participating Departments and Centers include Behavioral Sciences; Pharmacology and Nutritional Sciences; Toxicology and Cancer Biology; Microbiology, Immunology and Molecular Genetics; Molecular and Cellular Biochemistry; Neuroscience; and Physiology. The MSMS may be used as a stand-alone degree by students seeking career enhancement in fields such as basic biomedical research, the pharmaceutical industry, or the health science professions; by students seeking academic credentials in the biomedical sciences prior to applying for medical school or other health related professional degree programs; or by students seeking to enhance their knowledge base prior to choosing a career direction. The MSMS degree may also provide supplemental or joint training for practitioners in the health professions (e.g., physicians, dentists, pharmacists), or students in professional health science programs based on individual career goals and research training needs. Finally, the MSMS program provides students with the opportunity to opt out of a Ph.D. program and receive a master's degree.

Admission Requirements

- A baccalaureate degree from a fully accredited institution of higher learning.
- A minimum undergraduate grade point average of 2.9 and graduate GPA of 3.0.
- An average GRE score on the verbal, quantitative and analytical sections greater than the 40th percentile.
- The MSMS program also accepts MCAT or DAT scores in lieu of the GRE to serve as the entrance exam. In such cases, it is recommended that applicants have a minimum score of 497 on the MCAT, or an academic and science minimal average of 16 on the DAT.
- Three letters of recommendation
- Personal Statement
- For the best chances of gaining admission to the program, an applicant should have one year of general or inorganic chemistry, one year of organic chemistry (or one semester of organic chemistry and one semester of biochemistry) and at least one year of biology.

Degree Requirements

Students entering the MS in Medical Sciences program can choose either a thesis option (Plan A), requiring 30 hours of graduate level coursework, including six hours of research, or a non-thesis option (Plan B), also requiring 30 hours of graduate level coursework, including three hours of research. Plan A requires a defense of the master's thesis while Plan B requires a final master's exam. Most students enrolling in the MS in Medical Sciences as a stand-alone degree utilize the Plan B platform.

The plan of study for the MSMS program consists of a ten (10) credit hour curriculum and a recommended course of study based on career tracks. The ten credit hour core curriculum consists of the following courses:

- IBS 602 MOLECULAR BIOLOGY AND GENETICS (3) OR IBS 603 CELL BIOLOGY AND SIGNALING (3)
- IBS 606 PHYSIOLOGICAL COMMUNICATION (3)
- IBS 611 PRACTICAL STATISTICS (2)
- Seminar - Please select one from the following list:
 - MI 772 SEMINAR IN MICROBIOLOGY (1)
 - ANA 600 SEMINAR IN ANATOMY (1)
 - TOX 770 TOXICOLOGY AND CANCER BIOLOGY SEMINAR (2)
 - PHA 770 SEMINAR IN PHARMACOLOGY (1)
 - PGY 774 GRADUATE SEMINAR IN PHYSIOLOGY (1)
- TOX 600 ETHICS IN SCIENTIFIC RESEARCH (1)

Recommended Elective Courses (representative list)

- ANA 417G FUNCTIONAL HUMAN NEUROANATOMY
- ANA 605/PGY 605 Neurobiology of CNS Injury and Repair
- BCH 401G FUNDAMENTALS OF BIOCHEMISTRY
- BCH 419G MOLECULAR BASIS OF HUMAN DISEASE
- IBS 601/BCH 607 Biomolecules and Metabolism
- MI 494G IMMUNOBIOLOGY
- MI 598 CLINICAL MICROBIOLOGY
- PGY 412G PRINCIPLES OF HUMAN PHYSIOLOGY
- PHA 621 PRINCIPLES OF DRUG ACTION
- PHA 622 MOLECULAR DRUG TARGETS & THERAPEUTICS

The Clinical and Translational Sciences (CTS) concentration is a pathway option for CTS students who are interested in earning their MS in Medical Sciences (MSMS) degree. Students accepted into the CTS program typically consist of fellows or residents who have completed a formal professional degree program (e.g., MD, DMD, PharmD) with a rigorous basic biomedical sciences training that is identical or closely approximates the two basic science core courses in the MSMS program. Therefore, it is proposed that the two MSMS basic science core courses, IBS 602 and IBS 606 be waived. However, any CTS applicant who has not completed equivalent coursework will be required to enroll in and pass IBS 602 and IBS 606. In addition, all CTS students will be required to complete the two remaining MSMS core courses focusing on ethics in research (TOX 600), and a seminar class of their own choosing. CTS students who have completed a professional degree program (e.g., MD, DMD, PharmD) will not be required to submit any entrance exam scores (e.g., GRE, MCAT, DAT). Note: The CTS program is housed in the Department of Behavioral Sciences and it would be appropriate for CTS students to substitute BSC 534 and BSC 733 to meet the ethics and seminar course requirements in the MSMS program, respectively. CTS students will be required to complete BSC 731, BSC 732, and BSC 625 (or similar biostatistics course, such as STA 580). These requirements are aligned with the learning objectives of the CTS concentration. CTS students will then be required to complete the requisite number of hours and successfully pass a master's final exam to complete their MSMS degree. Both Plan A (thesis) and Plan B are available; 30 credits is required for each.

Link to program website <https://graduate.med.uky.edu/master-science-medical-sciences>

Microbiology, PhD

The Ph. D. program in Microbiology is offered by the Department of Microbiology, Immunology and Molecular Genetics, within the College of Medicine (COM). Graduate students in MIMG can focus their studies in the core disciplines of pathogenic microbiology and immunology, but cross-discipline areas such as cancer immunology, immune response to infection, and the role of the microbiota in infection and immunobiology are also available.

The program is designed to prepare students for research careers in academics, industry, and government, as well as teaching careers in colleges and universities. The program has at its heart a close student-mentor relationship that allows for the maximum flexibility in the development of independent and creative scientists and teachers.

Admission Requirements

Students are admitted through the College of Medicine Integrated Biomedical Sciences (IBS) program. The IBS program is an umbrella program that handles admissions and organizes first year course work for students in the COM basic sciences departments, which includes MIMG. Students wishing to join MIMG should apply directly to the IBS program. The IBS program requires that prospective students have a Bachelor's degree from a four-year accredited institution, with appropriate course work in biology, chemistry, physics and math.

Students in the IBS program complete coursework that provides a foundation for doctoral studies in any of the COM basic science departments. In addition to coursework, IBS students do research rotations with any faculty in participating departments. Students completing the IBS year with a minimum GPA of 3.0, and a minimum grade of B in all IBS coursework are welcome to join MIMG.

Degree Requirements

MIMG requires all Ph.D. students to take two of three core courses:

- MI 615 MOLECULAR BIOLOGY
- MI 685 IMMUNOBIOLOGY, INFECTION, AND INFLAMMATION
- MI 720 MICROBIAL STRUCTURE AND FUNCTION

MIMG students are also required to take:

- MI 772 SEMINAR IN MICROBIOLOGY
- MI 710 SPECIAL TOPICS IN MICROBIOLOGY (Grant Writing)
- Students must also take one elective, which may include one of the core courses, or any other of a wide variety of other options. Some of the most commonly chosen electives are:
 - MI 725 MECHANISMS OF MICROBIAL PATHOGENESIS
 - MI 707 CONTEMPORARY TOPICS IN IMMUNOLOGY
 - BIO 520 BIOINFORMATICS

- PGY 617 PHYSIOLOGICAL GENOMICS
- BCH 611 BIOCHEMISTRY AND CELL BIOLOGY OF NUCLEIC ACIDS
- BCH 612 STRUCTURE AND FUNCTION OF PROTEINS AND ENZYMES

Students are required to take 36 credit hours before taking the Qualifying Exam.

Students are also required to take at least two semesters of MI 767 (Dissertation Residency Credit) for research credit following the qualifying exam. MI 767 must be taken each Fall and Spring semester until the dissertation is defended.

<https://microbiology.med.uky.edu/>

Military Behavioral Health Certificate

The graduate certificate in Military Behavioral Health curriculum will benefit students by enhancing their understanding and appreciation of cultural and environmental factors that affect individual and family functioning for military and veteran populations. They will gain skills in assessment, intervention, and prevention of psychosocial problems typically encountered by this population. In order to earn the graduate certificate students must complete a total of 12 credit hours. Students will complete three designated 3 credit hour courses, SW 530 responding to military and veteran populations {appendix I), and SW 738 independent work with military populations (appendix II), FAM 759 special topics: working with military families. Eligibility is limited to students who hold, or are pursuing, a graduate degree in the counseling professions. These include social work, family sciences, clinical psychology, and educational, school and counseling psychology. Graduate and post-graduates from other human services disciplines may petition the advisory board for acceptance to the certificate. Exceptions will be evaluated by the advisory board on a case-by-case basis. The board will consider exceptions based on assessment of the applicant's academic and vocational history. All applicants must apply to the certificate director for admission.

Mining Engineering, MSMIE

The programs leading to the degrees of Master of Science in Mining Engineering, Master of Mining Engineering and Doctor of Philosophy are offered through the Department of Mining Engineering. The objectives of these programs are to provide an advanced level of applied science for use in the mining industry and to offer specified topics for research specialization.

The Master of Science in Mining Engineering is a research-oriented degree appropriate for a career in problem solving, research, or technology development.

For the Master of Science in Mining Engineering, 24 credit hours of course work plus an acceptable thesis (Plan A) or 30 credits of course work and a report on one or more research topics (Plan B) are required to fulfill program requirements. Plan B Master of Science degrees will be reserved normally for students who have already demonstrated their ability to conduct and report on independent research.

The Doctor of Philosophy is the terminal degree in the subject and is normally required for a career in teaching and research

Admission Requirements

Enrollment in the Master of Science degree program is open to qualified applicants with an undergraduate degree in mining engineering or other engineering and science fields. A minimum cumulative grade point average of 2.8/4.0 from an accredited undergraduate program is required. Persons with undergraduate degrees in fields other than mining engineering are required to satisfy deficiencies in undergraduate mining engineering courses.

Applicants for admission must have a combined score on the verbal and quantitative portions of the Graduate Record Examination (GRE) in excess of 300. Scores on the analytical portion are also considered. Foreign applicants whose native language is other than English must take the Test of English as a Foreign Language (TOEFL) and achieve a score of at least 80 (internet based test) or 230 (computer based test) or (550 paper based test) is required before they can be admitted. Alternatively candidates should take the International English Language Testing System (IELTS) test and achieve a score of at least 6.5.

In addition to satisfying general Graduate School and College of Engineering admissions requirements, applicants for admission to the Master of Science and Ph.D. degree programs in Mining Engineering must have been awarded the Bachelor of Science degree prior to admission to the graduate degree status. Normally, it is expected that applicants will have graduated from an engineering program accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). For applicants from non-U.S. universities, from related but non-engineering disciplines, and from institutions that do not have accredited engineering programs, an assessment will be made of the comparability of educational background to that prescribed and appropriate remedial course work established as a provision for admission.

Degree Requirements

Master's plan A

A minimum of 24 semester hours of coursework plus 6 semester hours of residency credit (MNG 768), plus a thesis are required. In no case will independent work, taken as MNG 780 or MNG 790 and used for part of the thesis, be counted as part of the 24 hours of coursework. The thesis must be actively supervised by a member of the graduate faculty.

Master's plan B

A minimum of 30 credit hours of coursework plus one or two written reports are required. The report(s) should represent the total equivalent of approximately six (6) semester hours of work; no credit for this effort may be included in the minimum 30-hour requirement. The report(s) must be written with a level of content and style which may be reasonably expected of a graduate student.

Please check the degree requirements in the following link. Follow the link to each program.

<http://www.engr.uky.edu/research-faculty/departments/mining-engineering/students/graduate-programs>

Mining Engineering, PhD

The programs leading to the degrees of Master of Science in Mining Engineering, Master of Mining Engineering and Doctor of Philosophy are offered through the Department of Mining Engineering. The objectives of these programs are to provide an advanced level of applied science for use in the mining industry and to offer specified topics for research specialization.

The Master of Science in Mining Engineering is a research-oriented degree appropriate for a career in problem solving, research, or technology development.

For the Master of Science in Mining Engineering, 24 credit hours of course work plus an acceptable thesis (Plan A) or 30 credits of course work and a report on one or more research topics (Plan B) are required to fulfill program requirements. Plan B Master of Science degrees will be reserved normally for students who have already demonstrated their ability to conduct and report on independent research.

The Doctor of Philosophy is the terminal degree in the subject and is normally required for a career in teaching and research

Admission Requirements

Enrollment in the Master of Science degree program is open to qualified applicants with an undergraduate degree in mining engineering or other engineering and science fields. A minimum cumulative grade point average of 2.8/4.0 from an accredited undergraduate program is required. Persons with undergraduate degrees in fields other than mining engineering are required to satisfy deficiencies in undergraduate mining engineering courses.

Applicants for admission must have a combined score on the verbal and quantitative portions of the Graduate Record Examination (GRE) in excess of 300. Scores on the analytical portion are also considered. Foreign applicants whose native language is other than English must take the Test of English as a Foreign Language (TOEFL) and achieve a score of at least 80 (internet based test) or 230 (computer based test) or (550 paper based test) is required before they can be admitted. Alternatively candidates should take the International English Language Testing System (IELTS) test and achieve a score of at least 6.5.

In addition to satisfying general Graduate School and College of Engineering admissions requirements, applicants for admission to the Master of Science and Ph.D. degree programs in Mining Engineering must have been awarded the Bachelor of Science degree prior to admission to the graduate degree status. Normally, it is expected that applicants will have graduated from an engineering program accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). For applicants from non-U.S. universities, from related but non-engineering disciplines, and from institutions that do not have accredited engineering programs, an assessment will be made of the comparability of educational background to that prescribed and appropriate remedial course work established as a provision for admission.

Degree Requirements

The Ph.D. degree has no formal course requirements. Students need to complete a minimum of 36 credits of graduate level courses, of which two semesters must be full-time, while preparing for the written and oral qualifying examinations. Students who hold a Master of Science degree are typically given credit for up to 18 credit hours of the 36 hour requirement. Current research areas include the following: rock mechanics and ground control, operations research, mine ventilation, underground construction, surface mining and reclamation, explosive and blasting, mine environmental engineering, mine power systems, mineral and coal processing, extractive metallurgy, data management and mineral economics. In addition to the graduate courses in mining engineering, graduate courses in civil engineering and other disciplines may be used to satisfy degree requirements providing they are appropriate to the student's program of study. Additional information about the graduate program in mining engineering can be obtained by writing the Director of Graduate Studies, Department of Mining Engineering.

Musculoskeletal Injury Management Certificate

The Graduate Certificate in Musculoskeletal Injury Management is designed to provide advanced education and clinical experience for credentialed clinicians (i.e. Athletic Trainers, Physical Therapists, Occupational Therapists, Physicians, Physician Assistants, etc.) that manage injuries in physically active populations. Graduates from our program will emerge as advanced clinicians with post-professional knowledge and clinical experience that will be highly competitive for positions providing healthcare services in a variety of employment settings (i.e. traditional athletics, physician's clinic, out-patient rehabilitation setting, occupational setting). Students will receive focused coursework that provides advanced didactic education related to mechanisms of musculoskeletal injury and current evidence for clinical management of these conditions. We will couple this with hands-on laboratory learning that will advance the learners knowledge, skills and abilities related to evaluation and treatment of musculoskeletal injuries. Students enrolled in this certificate program who hold the athletic training credential may be eligible for an Athletic Training Fellowship. These Fellowships will provide students the opportunity to work as an Athletic Trainer with one of our clinical partners to provide athletic training services in a variety of settings, including collegiate, high school and middle school athletics.

Music - Composition, MM

The School of Music offers a Master of Music (M.M.) degree in composition. The program currently focuses on traditional composition, but electro-acoustic music is offered as an option and may at some point in the future be offered as a separate program.

Admission Requirements

The applicant for the master's degree is expected to have earned an appropriate undergraduate degree and successfully interview with the composition faculty during the semester prior to admission. Students should submit a portfolio of at least three compositions in a variety of media (traditional and/or electroacoustic). All composition applicants must take the Graduate Entrance Exams in written and aural music theory, and those interested in applying for a teaching assistantship in music theory must also successfully complete an audition-interview with the theory and composition faculty to assess sight-reading, sight-singing, and keyboard fluency. To ensure full consideration, both the exams and the audition-interview should be completed during the audition-weekend period of the semester prior to admission.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Entrance exams in Music History and Music Theory (written and aural) are given prior to the course-add deadline at the beginning of the semester to determine whether review classes are necessary in the first semester of study. Students must pass the entrance exams or pass any required review classes with a grade of A or B before accumulating 12 credit hours.

Degree Requirements

General Requirements for Master of Music Degree

At least fifty percent of all course credits must be at the 600 level or above.

Master of Music (Composition)

Prerequisite: Submission of three original compositions (as described in admission requirements).

- Advanced Composition (MUS 673) (4)
- Orchestration (MUS 570 and MUS 571) (4)
- Music History and Literature (6)
- Theory (including a minimum of one course from: MUS 670, MUS 671, MUS 672, or MUS 676) (9)
- Directed Electives (1)
- Thesis Composition (6)

Total (30)

For the Master of Music degree in Composition, an original composition of major proportions or a portfolio of original compositions with a combined total of at least thirty minutes duration, acceptable to the composition-theory faculty and publicly performed, must be submitted with a written document (15 to 25 pages) analyzing the thesis composition or portfolio. The student is responsible for the preparation of legible score and parts, arranging a performance, and/or suitable recordings (if in electroacoustic medium).

Music - Music Education, MM

The School of Music offers the Master of Music (M.M.) with specialty areas in music education (e.g., Instrumental Teaching or Conducting, Choral Teaching or Conducting, and General Music - Dalcroze Eurhythmics or Orff Schulwerk. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Graduate work can count toward Rank changes (Rank II or Rank I). Graduates of the MMME are encouraged to work directly with the Educational Professional Standards Board (EPSB) in Frankfort, Kentucky to enact these changes: <http://www.epsb.ky.gov/mod/page/view.php?id=101>

Admission Requirements

The applicant for the MMME is expected to have earned a bachelor's degree in music or music education.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Applicants for the MMME do not need to audition, but should contact the Division Coordinator to schedule an interview.

Applicants take entrance exams in Music History and Music Theory (written and aural) the week before classes begin to determine whether review classes are necessary in the first semester of study. Students will receive information about scheduling exams from the Director of Graduate Studies. Admission for all degrees is conditional upon passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours.

Degree Requirements

General Requirements for the MMME

- At least half of the minimum requirements for the MMME (e.g., 15 credits) must be in 600- or 700-level courses.
- At least two-thirds of the minimum requirements for the MMME (e.g., 20 credits of the 30-credit minimum) must be in regular courses (not independent studies).
- A maximum of 4 credit hours of MUP (lessons) can apply toward degree requirements.
- Receipt of two grades of C or less can result in dismissal from the program.
- With the approval of the Director of Graduate Studies a student may petition the Graduate School to repeat a graduate class in order to replace a previously lower grade. This option is available only once in any particular degree program.
- For the Master of Music in Music Education, students may choose the thesis option (Plan A), or the non-thesis option which requires taking six hours of additional course work instead of a thesis (Plan B). Students planning to earn a doctorate in Music Education should elect Plan A. A final comprehensive examination is required for each plan.

Music Education - Plan A

Core Requirements: (12)

- MUS 600 RESEARCH I (3)
- MUS 601 FOUNDATIONS IN MUSIC EDUCATION (3)
- Music History and Literature (including MUS 693) (3)
- Music Theory (including MUS 578, MUS 670, MUS 671, or MUS 672) (3)
- Thesis (MUS 768)(6)
- Music Education Electives The student can select any Music Education courses 500 level or above. (6)
- Music Electives The student can select any Music course (MUS or MUP) 500 level or above (e.g., in Performance, Music History, Music Theory, Music Education, Composition). (6)

Total (30)

Music Education - Plan B

Core Requirements: (12)

- MUS 600 RESEARCH I (3)
- MUS 601 FOUNDATIONS IN MUSIC EDUCATION (3)
- Music History and Literature (including MUS 693) (3)
- Music Theory (including MUS 578, MUS 670, MUS 671, MUS 672 or MUS 676) (3)
- Specialized Area of Study (12)
- (The student will select 12 hours from the four areas described below, Instrumental Teaching or Conducting, Choral Teaching or Conducting, and General Music-Dalcroze Eurhythmics or Orff Schulwerk. The student and advisor will determine the general area of emphasis and plan a set of courses which best fulfills the student's needs. Students may mix and match music education courses in their specialized area of study; they do not have to take all the courses listed for each emphasis).

- Music or Education Electives The student can select any music or education courses 500 level or above. (6)

Total (30)

Specialized areas of study for Plan B

INSTRUMENTAL TEACHING OR CONDUCTING EMPHASIS - Band or Orchestra (Student and Advisor choose twelve hours from courses below which would best fulfill the student's needs).

- MUP Applied Performance (maximum of 4 hours) (1-4)
- MUP Secondary Applied (1-2)
- MUS 680 BAND HISTORY AND LITERATURE (3)
- MUS 681 ADVANCED REHEARSAL TECHNIQUES - BAND (3)
- MUS 622 SYMPHONIC LITERATURE (3)
- MUS 662 DALCROZE APPROACH I (3)
- MUP 558 CONDUCTING or MUP 658 CONDUCTING (1-4)
- MUS 684 ADVANCED STRING METHODS AND MATERIALS (3)
- MUS 570 ORCHESTRATION or MUS 571 ORCHESTRATION (2)
- MUS 706 MUSIC LEARNING AND BEHAVIOR (3)
- MUS 766 SEMINAR IN MUSIC EDUCATION (3)
- MUS 664 INCLUSIVE MUSIC PRINCIPLES AND PRACTICES (3)
- MUS 555 SOUNDS OF MUSIC: PSYCHOLOGY & PERCEPTION (3)

CHORAL TEACHING OR CONDUCTING EMPHASIS (Student and Advisor choose twelve hours from courses below which would best fulfill the student's needs).

- MUP Applied Performance (Maximum of 4 hours) (1-4)
- MUS 660 ADVANCED MUSIC EDUCATION METHODS AND MATERIALS (SUBTITLE REQUIRED): Elementary General Music (3)
- MUS 650 MUSIC EDUCATION WORKSHOP (1-3)
- MUS 660 ADVANCED MUSIC EDUCATION METHODS AND MATERIALS (SUBTITLE REQUIRED): Choral Techniques (3)
- MUP 558 CONDUCTING or MUP 658 CONDUCTING (1-4)
- MUS 662 DALCROZE APPROACH I (3)
- MUS 706 MUSIC LEARNING AND BEHAVIOR (3)
- MUS 766 SEMINAR IN MUSIC EDUCATION (3)
- MUS 664 INCLUSIVE MUSIC PRINCIPLES AND PRACTICES (3)
- MUS 555 SOUNDS OF MUSIC: PSYCHOLOGY & PERCEPTION (3)

DALCROZE EURHYTHMICS EMPHASIS (Student and Advisor choose twelve hours from courses below which would best fulfill the student's needs).

- MUS 650 MUSIC EDUCATION WORKSHOP (1-3)
- MUS 662 DALCROZE APPROACH I (3)
- MUS 663 DALCROZE APPROACH II (3)
- MUS 668 DALCROZE APPROACH III (3)
- MUS 669 INDIVIDUAL DALCROZE PROJECT (3)

Completing MUS 662, 663, 668, and 669 and two summers of Dalcroze workshops (no credit required) fulfills the requirement for the Graduate Certificate in Eurhythmics, which is a 12-credit hour program that can be embedded into the MMME. Students who wish to do this need to apply to the UK Graduate School again to enroll in the Graduate Certificate in Eurhythmics.

ORFF SCHULWERK EMPHASIS (Student and Advisor choose twelve hours from courses below which would best fulfill the student's needs).

- MUS 561 ORFF CERTIFICATION: LEVEL I, II, OR III (2-6)
- MUS 560 ORFF SCHULWERK (1-3)
- MUS 666 ADVANCED ORFF SCHULWERK (3)

Completing three summers of Orff Teacher Training Courses (listed as MUS 561, MUS 560, and/or MUS 666) and the capstone course MUS 666 fulfills the requirement for the Graduate Certificate in Orff Schulwerk, which is a 12-credit hour program that can be embedded into the MMME. If students are short on credits, they may enroll in MUS 560 during spring and fall semester to attend Orff workshops or the Orff conference for credit. Students who wish to do this need to apply to the UK Graduate School again to enroll in the Graduate Certificate in Orff Schulwerk.

Students choosing to write a master's thesis may do so by choosing a topic related to Orff Schulwerk for the thesis and completing six hours of Orff Schulwerk and achieving Level Two Orff Certification.

This MM degree with Concentration in Orff Schulwerk is part of the Academic Common Market program recognized in the state of West Virginia. Residents of West Virginia can be charged Kentucky in-state tuition by submitting an application to their State Academic Common Market Coordinator for approval.

Music - Performance, MM

The School of Music offers the Master of Music (M.M.) with specialty areas in performance (including choral or instrumental conducting), composition, sacred music, music therapy, or music education. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The applicant for the master's degree is expected to have earned an appropriate undergraduate degree and successfully audition for the faculty.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Applicants for performance degrees must audition. Some areas require a pre-recorded preliminary audition as part of the screening process. Live auditions should be scheduled by contacting the faculty member in charge of the student's performing area or filling out an audition request form on the School of Music web page.

For performance majors the entrance exams in Music History and Music Theory (written and aural) are given the week before classes begin to determine whether review classes are necessary in the first

semester of study. Admission for all degrees is conditional upon either passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours.

Degree Requirements

General Requirements for Master of Music Degree

At least fifty percent of all course credits must be at the 600 level or above.

Master of Music (Performance) General Requirements (see below for area-specific requirements)

Prerequisites: Acceptance by the appropriate faculty of applied music.

- Music Performance (including recital) (9)
- Music History and Literature (6)
- Theory (including a minimum of one course from MUS 670, MUS 671, MUS 672, or MUS 676) (6)
- Directed Electives (9)
- Recital (0)

Total (30)

A minimum of three full semesters, excluding summer sessions, is necessary for an M.M. in Performance. This MM degree program is offered in the following specialty areas: piano, collaborative piano (see below), voice (see below), organ, violin, viola, cello, bass, guitar, flute, oboe, clarinet, saxophone, bassoon, trumpet, horn, trombone, euphonium, tuba, percussion and conducting (choral or instrumental). Wind, string, percussion, and conducting majors must participate in at least one University-sponsored performing organization for two semesters.

Thesis Requirement: For the Master of Music degree in Performance, a public recital acceptable to the faculty is required in lieu of a thesis.

Master of Music (Collaborative Piano)

Degree requirements to be added

Master of Music (Voice Performance)

- Voice Performance (including recital) (9)
- Music History and Literature (must include MUS 623 or MUS 627) (6)
- Theory (including a minimum of one course from MUS 670, MUS 671, MUS 672, or MUS 676) (6)
- Physiology and Functioning of the Singing Voice (MUS 665) (3)

- Materials, Techniques, and Literature of Voice Teaching (MUS 667) (3)
- Advanced Vocal Repertory (MUS 620) (3)

Total (30)

A minimum of three full semesters, excluding summer sessions, is necessary for an M.M. in Performance.

Foreign Language Requirement: Voice Performance majors in the Master of Music are expected to have taken at least one year each of undergraduate level German, French, and Italian (or the equivalent by petition to the Director of Graduate Studies in the School of Music) as a prerequisite for degree study. If deficient, a student must enroll in language courses each semester of study until the deficiency is removed. Language classes must be passed with a letter grade of B or above.

Music Theory Pedagogy Certificate

The graduate certificate in Music Theory pedagogy is intended primarily for DMA. (Doctor of Musical Arts students who wish to gain experience and expertise in theory pedagogy in order to strengthen their background for increased marketability in higher education. Students desiring admission into this certificate curriculum will be interviewed by a committee consisting of members of the theory faculty and a music faculty member outside of theory. The interview will include an appraisal of the student's keyboard proficiency, sight-singing and aural skills, and understanding of theoretical concepts. The student's scores on graduate entrance exams in music theory will also be assessed. It is assumed that any student granted admission into the certificate curriculum would have been accepted as a student in the Graduate School.

Music Theory, MA

The School of Music offers the Master of Arts (M.A.) with specialty areas or emphases in musicology or theory. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The applicant for the master's degree is expected to have earned an appropriate undergraduate degree.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. For those applying for Music Theory entrance exams and an interview are required as part of the application process. Students should contact the Division Coordinator or Director of Graduate Studies to schedule exams and an interview. Admission for all degrees is conditional upon passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours.

Degree Requirements

Students who have not passed the entrance exams in music history and/or music theory will be required to take review classes in those areas during the first 12 hours of study.

- Theory (including a minimum of one course from MUS 670, MUS 671, MUS 672 or MUS 676) (9-12)
- Music History and Literature (6-9)
- Research Methods (MUS 618) (3)
- Directed Electives (0-6)
- Thesis (6)

Total (30)

Additional Requirements for Master of Arts Degree

Foreign Language Requirement: The Master of Arts degree requires a reading knowledge of one foreign language, preferably French or German. Language classes must be passed with a letter grade of B or above.

Thesis Requirement: The Master of Arts degree requires a thesis (Plan A: see general requirements). A final comprehensive examination is required for each program.

At least fifty percent of all course credits must be at the 600 level or above.

Music Therapy, MM

The School of Music offers the Master of Music (M.M.) with specialty areas in performance (including choral or instrumental conducting), composition, sacred music, music therapy, or music education. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

An undergraduate degree in music therapy (or the equivalent) is required for full admission to the 30-credit hour Master of Music in Music Therapy degree. Additionally, students must hold the MT-BC credential in order to fulfill the requirements of the MM in music therapy. A combined equivalency/master's degree program is available for students without an undergraduate degree in music therapy. Applicants for the combined equivalency/master's degree are expected to have earned an undergraduate degree in music or, at a minimum, a music minor. Students who have earned a music minor should contact the program director prior to applying to the combined equivalency/master's degree program.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music.

In addition to the items required on the Graduate School application, applicants for the MM in Music Therapy must complete the following:

- An interview with the music therapy faculty, during which students will be asked to sing one song while accompanying themselves on guitar and one song while accompanying themselves on piano. Students who have not yet learned to play guitar only sing and play one song with piano accompaniment.
- The specialize Music Therapy entrance exams cover music theory, music history, and music therapy. These three entrance exams are specific to the music therapy area and serve in lieu of the entrance exams used for other degree programs. Applicants should contact the music therapy program director to arrange for an interview and schedule the entrance exams. Admission is conditional upon passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours.
- Information about this exam can be found in the School of Music Graduate Handbook, section 1.11.3:
https://finearts.uky.edu/sites/default/files/Uploads/Documents/graduate_handbook_2020.pdf

Degree Requirements

At least fifty percent of all course credits must be at the 600 level or above.

Equivalency Requirements: Combined equivalency/master's students must have met all AMTA Professional Competencies before finalizing the Master of Music in Music Therapy degree. The number of credits required to complete the equivalency option will vary based on previous courses taken.

All students (both traditional and combined equivalency/master's degree students) must complete the following coursework to finalize the master's degree. Please note: any graduate coursework taken to remediate professional competencies will not count toward the master's degree.

- MUS 600 RESEARCH I (3)
- MUS 633 GRADUATE CLINICAL PLACEMENT IN MUSIC THERAPY (1-3)
- Music Therapy (The student will select 11 hours from the following courses: MUS 630; MUS 631; MUS 633; MUS 664; MUS 706; MUS 730; MUS 732; MUS 770) (11)
- Electives (9) (The student will select 9 hours of electives based on consultation with their academic advisor.)
- MUS 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE (6)

Total (30)

Music, MM

The School of Music offers a Sacred Music emphasis within the Master of Music in Performance program. Requirements for this emphasis are listed below.

The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The applicant for the master's degree is expected to have earned an appropriate undergraduate degree in music (which should involve a performance component) and successfully audition for the faculty.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Applicants for performance degrees must audition. Some areas require a pre-recorded preliminary audition as part of the screening process. Live auditions should be scheduled by contacting the faculty member in charge of the student's performing area or filling out an audition request form on the School of Music web page.

For performance majors the entrance exams in Music History and Music Theory (written and aural) are given the week before classes begin to determine whether review classes are necessary in the first semester of study. For academic degrees, entrance exams and an interview are required of the application process. Specialized exams may be required in certain performance and academic areas. Students should contact the Division Coordinator or Director of Graduate Studies to schedule exams. Admission for all degrees is conditional upon passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours.

Degree Requirements

General Requirements for Master of Music Degree

At least fifty percent of all course credits must be at the 600 level or above. For students in M.M. degrees, entrance exams will be scheduled the week before the first semester of classes to assess competency in music history and music theory. Students who have not passed the entrance exams in music history and/or music theory will be required to take review classes in those areas during the first 12 hours of study.

Master of Music (Sacred Music)

- **UK Requirements: (27)**
- MUS 660 ADVANCED MUSIC EDUCATION METHODS AND MATERIALS (SUBTITLE REQUIRED) (3)
- Music History and Literature (3)
- Music Theory (including a minimum of one course from MUS 670, MUS 671, MUS 672, or MUS 676) (3)
- Ensemble (2)
- Music Education (Choose from MUS 560, MUS 561, MUS 650 or other graduate music education course in consultation with advisor) (3)
- Internship (3)
- Specialized area of study (10)
- **Course work at an accredited seminary or other institution specializing in religious studies (6-9)** (Choose from topics such as Music in Worship, Designing Worship, Congregation, Worship and Spirituality, Worship and Music in the Liturgical Year, or other courses. Credits must be completed with a grade "B" or above and must be transferred to UK officially prior to graduation)

Total (33)

Specialized areas of study:

Voice or Keyboard (organ or piano)

- MUP 558 CONDUCTING (4)
- Music Performance (Voice or Keyboard) (6 +*)

Choral Conducting

- MUP 558 & MUP 658 Choral Conducting (8)
- Keyboard, MUP 501 or MUP 503 (2)

+ An audition in the performing area (voice, organ, or piano) is required.

* A 15-minute jury before either the voice faculty (for vocal emphasis) or the keyboard faculty (for piano or organ emphasis) is required at the end of the applied study.

Music, PhD

The School of Music offers the Doctor of Philosophy (Ph.D.) with specialty areas in musicology, music education, or theory.

The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The School of Music offers courses and research opportunities leading to the Ph.D. Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Applicants must submit a master's thesis or a research paper of sufficient scope and quality to demonstrate competence in research and clarity of expression. For students in the Ph.D. program, entrance exams are a required component of the application process to assess competency in music history and music theory.

Degree Requirements

The basic core requirements beyond the master's degree are as follows:

- Research Methods: MUS 618 (if not taken at the master's level) (3)
- Music History and Literature beyond the master's (9)
- Advanced Music Theory beyond the master's* (6)
- Three seminars (minimum) beyond the master's (9)

Total (27)

(24 hours if competency in Research Methods is accepted by the Musicology faculty.)

*MUS 578 cannot be used to fulfill this requirement.

There is no specific requirement in a minor area, but such work may be required by a student's Advisory Committee if it is essential to the major research or field of concentration.

Satisfaction of language requirements will conform to The Graduate School policy; however, specific languages required will vary with individual options. The foreign language requirement(s), if applicable, must be met by the end of the first full year of study in the Ph.D. program. The student's Advisory Committee must be formed and appointed by the Dean of the Graduate School prior to advance registration for the student's third semester. The dissertation topic and prospectus must be approved by the Advisory Committee; the dissertation itself must be the result of original research which adds to or modifies what has previously been known on the subject. Qualifying examinations should be taken no later than one semester after the completion of course work. A student is admitted to candidacy for the Ph.D. degree only after meeting the language requirement(s) and passing the qualifying examinations.

The Ph.D. in music may be pursued in one of three areas: music education, music theory, or musicology. The program outline for each area beyond the core requirements is given below; the student's Advisory Committee advises on and plans the actual program of study.

Music Education

- Music in Higher Education (MUS 762)
- Psychology of Music (MUS 770)
- At least one graduate level course in statistics

Knowledge of acoustics (PHY 140 or equivalent); Knowledge of specialized research in music education (MUS 600 or equivalent). These requirements must be met by the end of the first year of doctoral study. A foreign language is not required but student must show competency in computer use and statistical understanding for research purposes.

Additional courses in music education or adjunct subjects as recommended by the Advisory Committee.

Music Theory

- Pedagogy of Theory (MUS 674)
- Advanced Analytical Techniques (MUS 676)
- History of Music Theory (MUS 678)

Additional courses in music theory or adjunct subjects as recommended by the Advisory Committee.

A reading knowledge of French, German, or a language appropriate to the research interest.

Musicology

- Medieval and Renaissance Notation (MUS 700)
- Proseminar in Musicological Methods (MUS 703)

Additional courses in musicology or adjunct subjects as recommended by the Advisory Committee.

A reading knowledge of at least two foreign languages, normally German and either French or Italian.

Combined M.A./Ph.D. Program in Musicology & Ethnomusicology

The First Two Years

The first two years of study provide training in the practice and methodology of musicology and ethnomusicology. A minimum of 30 hours of graduate credit is required during the first two years of graduate study.

Second-Year Review; Examinations and Research Paper

During the second year of graduate study the student will be expected to:

- Take an examination designed to test the student's knowledge of European and American music and of music theory. This will include a four-hour written examination in general music history, and a four-hour written examination in music theory.
- Write a paper on a topic of the student's choice, and with approval of the student's advisor. This third-term paper should explain and review a selected topic in musicology or ethnomusicology, survey and evaluate the available literature on the topic, and identify lines of inquiry which remain to be pursued. The recommended length for this paper is 25-30 pages of prose, in addition to the bibliography, with appendices and musical examples as needed. Three copies of the paper are to be submitted to the Division of Musicology, which may require revisions before final acceptance.

The departmental evaluation of all students in the second year is based on course work completed to date, the paper, the results of the preliminary exam, and the student's prospects for continued success in the field. The department's judgment is a collective one. If the evaluation is favorable, the student may continue in the Ph.D. program. A student who fails the common exams may receive a terminal M.A. through the following steps: a) completing 36 hours of course work, b) submitting an acceptable 2nd-year paper, in lieu of thesis, and c) establishing a Masters' committee and passing an oral exam.

A student who successfully completes the 2nd-year review, which includes the common exams and the 2nd-year paper, but fails the special area Qualifying Examination, is eligible to receive a terminal M.A. without further academic work, as long as performance on the oral portion of the qualifying exam is considered to have been satisfactory as an M.A. final examination. The advisor and two other members of the doctoral committee will be named as the M.A. committee to complete the necessary paperwork."

"A student who passes the qualifying exams but does not successfully complete the dissertation and/or defense will be eligible to receive the M.A. without further work of any kind, except for applying for the degree. The advisor and two other members of the doctoral committee will be named as the M.A. committee to complete the necessary paperwork, certifying the 2nd-year paper in lieu of the thesis and the doctoral qualifying examination in lieu of the M.A. final exam.

Students entering the program with M.A. degrees in Musicology from the University of Kentucky or other institutions may make a written petition to the departmental faculty to participate in the Second- Year Review during their first year of residency. Note: In order for the petition to be considered, the student must have been admitted without the requirement of any remedial work, and must have taken an appropriate research method class as part of the master's program.

The Third Year

During the third year of study, the student will take additional courses in musicology, ethnomusicology, theory, and any appropriate cognate areas within or outside the music program; a limited number of these courses may be independent study in the area of specialization.

The student will take the qualifying examinations, which will consist of a special field examination in musicology or ethnomusicology, the general sense and limits of which have been discussed in advance with the prospective dissertation advisor and the student's advisory committee. If necessary, the committee may also retest areas in which the second-year exams demonstrated deficiencies.

The Dissertation

As soon as possible after the successful completion of Qualifying Examinations, the student should submit a dissertation proposal to his/her Advisory Committee. The student will defend this proposal at a meeting of the committee, and is expected to submit any required revisions within two months. The dissertation itself will meet all the requirements of the University of Kentucky Graduate School, and will be defended following the usual Final Examination procedures.

Course Requirements

MUS 618 RESEARCH METHODS (3)

MUS 703 PROSEMINAR IN MUSICOLOGICAL METHODS (3)

MUS 700 MEDIEVAL AND RENAISSANCE NOTATION (3)

MUS 702 SEMINAR IN MUSICOLOGY (variable topics) (12-18)

MUS 710 INTRODUCTION TO ETHNOMUSICOLOGY (3)

MUS 711 SEMINAR IN ETHNOMUSICOLOGY (variable topics) (3-6)

Advanced Music Theory (not including MUS 578) (9)

Directed electives (including independent study) (9-18)

Total 54

Note: Students entering the program with a Master's degree, whose petition to enter in the second year has been approved, will be required to take 36 hours, with specific courses to be determined by the Advisory Committee based on the evaluation of coursework taken in the previous degree.

Foreign Language

All students in the combined M.A./Ph.D. program must demonstrate reading knowledge of two foreign languages. One of these is usually French or German, but they may also be other languages appropriate to the students' research interests. The Graduate School offers reading knowledge courses in French, German, and Spanish.

Advising

Students in the M.A./Ph.D. program will work initially with an individual advisor, and then with an Advisory Committee. For further details on the program see the program webpage: <https://finearts.uky.edu/music/musicology-ethnomusicology>

Musical Arts, DMA

The School of Music offers the Doctor of Musical Arts (D.M.A.) with specialty areas in performance (including choral or instrumental conducting) or composition. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The applicant for the D.M.A. degree is expected to have earned appropriate undergraduate and master's degrees and successfully audition for the faculty.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Applicants for performance degrees must audition. Some areas require a pre-recorded preliminary audition as part of the screening process. Live auditions should be scheduled by contacting the faculty member in charge of the student's performing area or filling out an audition request form on the School of Music web page.

Entrance exams in Music History and Music Theory (written and aural) are given the week before classes begin in the Fall semester to determine whether review classes are necessary in the first semester of study. Admission for all degrees is conditional upon either passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours

Degree Requirements

The Doctor of Musical Arts program offers opportunity for full development as a performer, composer, or teacher of music performance or composition. A thorough background is a prerequisite for admission into the program; doctoral study emphasizes work in adjunct areas of music, related fields, and research as they enhance and support the major area.

Language requirement differs among performance areas. If required and if deficient, a student must enroll in language courses each semester of study until the deficiency is removed. Language classes must be passed with a grade of B or higher.

The student's Advisory Committee must be formed and appointed by the Dean of the Graduate School prior to advance registration for the student's third semester.

Recital requirement differs among performance areas. At least three weeks prior to each recital, the student must do a pre-recital hearing for three members of the applied faculty who must sign and submit a Pre-Recital Hearing Form to be placed in the student's file. The program content of the recitals will be established in cooperation with the student's Advisory Committee. Immediately after each successful recital, a Recital Approval form must be signed by three members of the Advisory Committee and placed in the student's file. The student should complete at least one recital prior to taking the Qualifying Exam.

DMA students are required to pass a Qualifying Exam (QE) upon completion of all coursework. Part I of the QE (History and Theory, 3 hours each) will be given as a common exam early every semester. Students

should pass Part I prior to taking Part II of the QE which is the Specialty Area portion (six hours) of the QE. Part III of the QE is the oral exam (2 hours maximum) and should be taken last, after completing Parts I and II successfully.

Requirements for doctoral projects differ among the performance areas. The Project for the D.M.A. specializing in Composition will consist of two parts. Part 1 is a large-scale original composition. The candidate is responsible for arranging a public performance of the work. Part 2 is an in-depth analysis and discussion of the composition. The composition and in-depth written analysis and discussion are to be approved by the Advisory Committee in the same manner as a Ph.D. dissertation. For specific requirements in each performance area, please consult the Graduate Music Handbook posted at https://finearts.uky.edu/sites/default/files/Uploads/Documents/graduate_handbook_2020.pdf

The minimum course requirements for all DMA students beyond the master's degree are as follows:

- MUS 618 RESEARCH METHODS* (3)
- Music History and Literature# (9)
- Advanced Music Theory** (6)
- Performance Major (12)
- Minor (optional)*** (9)

Total (30-39)

#Must include two regular courses offered by the Division of Musicology (one 700-level course recommended) and those required by the specific performance major area. One course may be from the Division of Musicology, Theory, Music Education, or Performance.

For students in D.M.A. degrees, entrance exams will be scheduled the week before the first semester of classes to assess competency in music history and music theory. Students who have not passed the entrance exams in music history and/or music theory will be required to take review classes in those areas during the first 12 hours of study.

Doctor of Musical Arts (Voice Performance)

- MUS 618 RESEARCH METHODS* (3)
- Music History and Literature (must include MUS 623 or MUS 627*) (6)
- Advanced Music Theory** (6)
- Voice Performance (12)
- Performance Related Study (must include MUS 665*, MUS 667*, and MUS 620*) (9-15)
- Directed Research in Vocal Literature (MUS 780) (6)
- Minor (Optional)*** (9)

Total (33-51)

LANGUAGE REQUIREMENT: 1 year of French, 1 year of Italian, 1 year of German; In addition, one semester of a Reading for Knowledge course is required, this can also substitute for an entire year of a language requirement if passed). The second semester of all languages must have a grade of B or above to be accepted.

Doctor of Musical Arts (Choral Conducting)

- MUS 618 RESEARCH METHODS* (3)
- Music History and Literature (must include MUS 625) (9)
- Advanced Music Theory** (6)
- Advanced Choral Methods (MUS 660) (3)
- Performance Major**** (12)
- Minor (Optional)*** (9)

Total (33-42)

Doctoral of Musical Arts (Instrumental Conducting)

- MUS 618 RESEARCH METHODS* (3)
- Music History and Literature (must include MUS 622 or MUS 680) (9)
- Advanced Music Theory** (6)
- Advanced Rehearsal Techniques (MUS 681) (3)
- Performance Major (6 hours of MUP 658 and 6 hours of MUP 758) (12)
- Minor (Optional)*** (9)

Total (33-42)

*If not completed at the master's level.

**MUS 578 cannot be used to fulfill this requirement.

***The minor may be taken within or outside the School of Music, and is subject to the approval of the Advisory Committee and the chairman of the department concerned.

****Must include a minimum of 4 credits of MUP 758

Musicology, MA

The School of Music offers the Master of Arts (M.A.) with specialty areas or emphases in musicology or theory. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The applicant for the master's degree is expected to have earned an appropriate undergraduate degree.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. For academic degrees, entrance exams and an interview are required as part of the application process. Students should contact the Division Coordinator or Director of Graduate Studies to schedule exams and an interview. Admission for all degrees is conditional upon passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours. Students may consider applying directly to the blended MA/PhD program in Musicology/Ethnomusicology.

Degree Requirements

Students who have not passed the entrance exams in music history and/or music theory will be required to take review classes in those areas during the first 12 hours of study.

- Music History and Literature (9-12)
- Theory (including a minimum of one course from MUS 670, MUS 671, MUS 672, or MUS 676) (6-9)
- Research Methods (MUS 618) (3)
- Directed Electives (0-6)
- Thesis (6)

Total (30)

Additional Requirements for Master of Arts Degree

Foreign Language Requirement: The Master of Arts degree requires a reading knowledge of one foreign language, preferably French or German. Language classes must be passed with a letter grade of B or above.

Thesis Requirement: The Master of Arts degree requires a thesis (Plan A: see general requirements). A final comprehensive examination is required for each program.

At least fifty percent of all course credits must be at the 600 level or above.

Neuroscience, PhD

The Department of Neuroscience offers a graduate program leading to the Doctor of Philosophy degree in Neuroscience. Graduate study in neuroscience is designed to prepare candidates for research careers in academics, industry, and government laboratories. Students will have the opportunity to join faculty research programs across a spectrum of topics including: cellular and molecular neurobiology, neurodegenerative diseases and aging, brain and spinal cord injury, neuroendocrinology, and behavioral, cognitive and integrated neuroscience. The program of study is tailored to the individual background and career goals of the student and stresses an interdepartmental approach both in the selection of courses and in the pursuit of research. Students are expected to participate in graduate seminars, journal clubs, research seminars, to interact with visiting scholars, publish and to present the results of their research at local and national meetings. Financial aid is available to students accepted into the program. Optional graduate certificates in Anatomical Sciences or Neuroscience Instruction are also available.

Admission Requirements

- Admission to the Ph.D. program in Neuroscience is through completion of the Integrated Biomedical Sciences (IBS) graduate curriculum with a GPA of 3.0 or greater. Inquiries regarding admission to the IBS program should be directed to the Director of Graduate Studies, Integrated Biomedical Sciences Curriculum, University of Kentucky College of Medicine at <http://www.mc.uky.edu/ibs/>.

- For additional information about the Ph.D. program in Neuroscience, contact the Director of Graduate Studies, Department of Neuroscience. Information may also be obtained from the department website at <https://neuroscience.med.uky.edu/>.

Degree Requirements

Requirements to be added.

Next Generation Teaching and Learning Certificate

Next Generation Teaching and Learning incorporates 21st century skills (collaboration, communication, technology, critical thinking, problem solving and performances of learning), is a current direction in educational endeavors in a variety of learning environments from k-12 classrooms and teacher professional development to museums and after-school programs. This certificate combines required next generation foundations and assessment components with specialty electives, representative of cutting-edge innovative pedagogy. The certificate comprises 12 hours of graduate coursework as follows: nine (9) credit hours of required course work comprised of three (3) hours of the next generation learning foundations course, three (3) hours of an internship choice, three (3) hours of a course on data-driven decision making and a final three (3) chosen from specialty course options. A key purpose of the certificate work is a demonstration of research to practice knowledge and skills, through implementation and assessment of next generation pedagogy in a field setting.

Non-Profit Management Certificate

The Graduate Certificate in Nonprofit Management is designed to provide skills to support graduate students and professionals in leading, directing, and managing organizations in the nonprofit sector. The certificate benefits students seeking careers in the nonprofit sector, professionals currently working in the nonprofit sector, and government employees transitioning to the nonprofit sector. The certificate includes 12 credit hours comprised of three mandatory classes and one elective focused on unique aspects of the nonprofit sector including management, finance, and organizational operations. The graduate certificate can be obtained as a stand-alone program but can also be integrated with other degrees offered by the Martin School of Public Policy and Administration. The certificate also offers flexibility as students may complete the program partially or fully online. Two of the required courses are offered in the traditional, face-to-face modality each fall, so students can choose to take those sections or the online sections. The spring courses are only offered online. For more information visit <https://martin.uky.edu/>

Nursing, MSN

The MSN in Healthcare Systems Leadership program is based on the MSN Essentials and builds on the student's current knowledge and expertise. Graduates that complete this program will have a fuller understanding of the discipline of nursing in order to engage in higher level practice and leadership in a variety of settings and to commit to lifelong learning. Students will take a series of courses that prepare them to function as change agents in multi-dimensional roles in the organization and community. The curriculum emphasizes leadership effectiveness in micro and meso organizational/systems/settings, evidence-based management, quality/safety, information management expertise, and strategies to make organizational effectiveness strategies. MSN courses are offered on-line. Graduates will be prepared to:

1. Lead change to improve quality outcomes,
2. Advance a culture of excellence through lifelong learning,
3. Build and lead collaborative inter-professional care teams,
4. Navigate and integrate care services across the healthcare system,
5. Design innovative nursing practices, and
6. Translate evidence into practice (AACN, 2011, The Essentials of Master's Education in Nursing)

The Master of Science in Nursing in Healthcare Systems Leadership program builds on a student's undergraduate nursing degree and prepares the individual for advanced practice nursing in a chosen specialty. Research utilization, evidence-based practice, and leadership are emphasized throughout the program.

The University of Kentucky prepares nurse practitioners in the post BSN Doctor of Nursing Practice (DNP) program, and not in the MSN program. The DNP is a professional clinical doctorate program. Information can be found at [UK DNP Program information](#).

Admission Requirements

Applicants to the master's degree program must meet the minimum requirements of the Graduate School, as well as the following requirements of the nursing program: Minimum undergraduate grade point average of 3.0 on a 4.0 grading scale; Baccalaureate degree in nursing from a school accredited by a nationally recognized organization and goal statement, scholarly writing sample, three references, resume/CV and interview. Unencumbered RN licensure required in/for the state where clinicals take place. The RN license cannot have any restrictions on licensure which would preclude meeting the requirements of the degree program and required clinical rotations. Final admission recommendations are made on a competitive basis. See details at [MSN Healthcare Leadership Admission](#)

The MSN application opens Sept. 15 and closes February 15th for Fall (August) enrollment. Feb 15th is the preferred deadline. Applications received after this deadline will be considered in a space available basis. The MSN program does not admit a spring or summer class.

Degree Requirements

- Total credit hours: 38
- MSN Capstone Project required. There is no thesis option.
- Program requires 29 didactic credit hours and 9 clinical credit hours (540 practicum hours). Required courses and clinical practicum work are listed below.

Course	Course Title	Credits
EPE 557	Gathering, Analyzing and Using Educational Data	3
NUR 624	Concepts, Theories, and Models for Advanced Practice Nursing	3
NUR 614	Economic and Financial Aspects of Clinical and Population-Based Health Care Delivery Systems	3
NUR 602	Research Methods In Advanced Practice Nursing	3
NUR 730	Leading Change: Seminar	3
NUR 731	Leading Change: Practicum	3
NUR 610	Nursing Leadership in Health Care	3
NUR 619	Quality and Safety in Nursing and Healthcare	3
NUR 615	Evaluating Evidence for Research and Evidence-Based Practice	3
NUR 736	Relationship Based Leadership in Healthy Work Environments (Seminar)	3
NUR 737	Relationship Based Leadership in Healthy Work Environments (Practicum)	3
NUR 660	MSN Capstone Practicum	3
NUR 617	Technology for Transforming Nursing and Healthcare	2

- See sample full and part time plans of study at MSN Healthcare Systems leadership plans of study
- Information on all graduate nursing programs is located at UK Graduate Nursing Programs

Nursing, PhD

The goal of the PhD Program, which is ranked among the top eight programs in the U.S. by the National Research Council, is to prepare students to conduct clinical research that generates new knowledge

applicable to nursing practice. A foundation of research and scholarship gained at the baccalaureate or master's level is further enhanced at the doctoral level. Our students are prepared to assume roles in a variety of settings, from private industry to community colleges to top research-intensive nursing schools affiliated with major academic health centers.

Interdisciplinary research opportunities are emphasized. Invaluable mentoring by faculty members and collegial interactions among doctoral students support the development of nurse researchers.

Doctoral students have the opportunity to participate in faculty members' research programs, such as psychosocial and biobehavioral interventions for prevention and treatment of cardiovascular and pulmonary diseases, management of critically ill patients, promoting self-management of chronic illnesses, domestic and workplace violence, tobacco policy and smoking cessation, occupational health and safety, health disparities, health risks in pregnant women, pediatric asthma and more.

The faculty is well-qualified in both research and clinical practice. Faculty and students alike are very successful in obtaining extramural funding for their scholarly activities. With research as a central component of the College's mission, College faculty and students boast more than \$20 million in its research portfolio as they produce groundbreaking knowledge in cardiovascular disease, tobacco control policy, diabetes, cancer, agricultural health, health disparities, maternal-child health, chronic pain, acute injuries and mental health. [Click here for more information on the College's research initiatives.](#)

Graduates of the program will be able to:

- Establish a pattern of productive scholarship and participation in team science that results in the dissemination of scholarly work to lay and professional audiences
- Contribute to the development of science and the discipline of nursing through the ethical conduct of culturally competent, original clinical and translational research
- Demonstrate an understanding of the evolving roles and professional responsibilities of a nurse scholar through participation in professional and interprofessional teams and organizations and the provision of professional and research leadership and mentorship
- Use different science perspectives and an in-depth knowledge of a substantive area to develop and apply a conceptual knowledge base that enhances the link among theoretical advances, research, and practice to improve health outcomes

The PhD program was initiated in 1987 and was the first in the state of Kentucky.

There are two entry points to the PhD Program:

Post-BSN Option: for those who wish to build on their BSN degree to become active nurse researchers and contribute to the development of science that improves health outcomes. This option also includes those with an earned master's degree who desire to develop research skills that contribute to science, scholarship and improved health outcomes.

Post-DNP Option: Curriculum plans are customized for each individual based on a faculty review of completed DNP coursework as comparable to courses in the PhD Program.

All entry options also have part-time plans. Deadline for fall admission is Feb. 15. Admission decisions are made on a competitive basis. Applications received after Feb. 15 will be considered on a space-available basis.

Admission Requirements

Applicants to the PhD Program should meet the following minimum requirements:

- Undergraduate grade point average of 3.3 on a 4.0 grading scale
- A bachelor's degree in nursing from an CNEA or CCNE accredited program
- Current, active, and unrestricted RN license in Kentucky or in each US state where research will take place.
- Graduate Records Exam (GRE) is optional but highly recommended; GRE scores are used for competitive funding opportunities, particularly those from the UK Graduate School
- Three references attesting to the potential of the student for a scholarly career; at least one should be from a doctorally prepared nurse
- Example of scholarly written work that demonstrates excellent writing skills and the ability to communicate clearly and logically; examples could include a publication or class paper
- Goal statement that addresses short- and long-term academic, research and career goals; a self-evaluation of motivation, initiative and the potential for independent learning with specific examples of each; and examples of leadership experiences where initiative and self-motivation were important to success
- Two faculty interviews arranged as part of the admission process
- Admission to the University of Kentucky Graduate School

Application Deadlines

- Fall semester admission: Feb. 15
- Spring semester admission: Oct. 15

Applications for the Doctor of Philosophy in Nursing received after the above deadlines will be considered only on a space available basis. International applicants must adhere to published graduate school deadlines.

Degree Requirements

PhD candidates must complete the following:

- Minimum of 48 credit hours of pre-qualifying course work
- Enrollment in at least five credit hours of course work per semester
- Prequalifying residency requirement: Students must complete the minimum 48 credit hours of course work within five years of entry into the doctoral program.

- Two consecutive full-time terms for the NUR 767 dissertation research residency
- Written and oral examinations to qualify as a candidate for the PhD degree
- Dissertation and final examination

Prequalifying course work	Course\ Title	Credits
Core statistics	STA 570 BASIC STATISTICAL ANALYSIS	3
	STA 674 REGRESSION ANALYSIS AND DESIGN OF EXPERIMENTS	3
Core nursing courses	NUR 770 PHILOSOPHICAL FOUNDATIONS OF NURSING SCIENCE	2
	NUR 763 FOUNDATIONS OF SCIENCE AND KNOWLEDGE DEVELOPMENT IN NURSING	2
	NUR 764 SYSTEMATIC REVIEWS OF THE LITERATURE	3
	NUR 779 DOCTORAL SEMINAR: (SUBTITLE REQUIRED) -- Becoming a Scientist	1
	NUR 765 RESEARCH DESIGN AND METHODS: QUALITATIVE, QUANTITATIVE AND MIXED METHODS RESEARCH (Pre req.: statistics 1 and NUR 790)	4
	NUR 778 PROSEMINAR IN CONTEMPORARY HEALTH AND NURSING POLICY ISSUES	3
	NUR 766 RESPONSIBLE CONDUCT OF RESEARCH	1
	NUR 793 MEASUREMENT OF NURSING PHENOMENA (Pre req.: NUR 763, 770 & 765)	3
	NUR 773 RESEARCH PROPOSAL DEVELOPMENT (Pre req.: NUR763, NUR764, NUR765)	3
	NUR 779 DOCTORAL SEMINAR: (SUBTITLE REQUIRED) --Roles for the Nurse Scientist	1
	NUR 772 DISSEMINATION OF SCHOLARSHIP AND SCIENTIFIC FINDINGS	3
NUR 794 ANALYSIS, INTERPRETATION, AND PRESENTATION OF QUANTITATIVE DATA (Pre req.: STA 674)	3	

	NUR 779 DOCTORAL SEMINAR: (SUBTITLE REQUIRED) --Career Planning	1
Cognates	Students are required to complete 9 credit hours of cognate courses in a related discipline.	9
Post Qualifying course work	NUR 767 DISSERTATION RESIDENCY CREDIT A minimum of two consecutive full-time terms for the dissertation research residency.	4

PhD Program information as well as full and part time sample plans of study can be found at UK PhD Program in Nursing

Nutrition and Food Systems, MSNFS

Graduate education leading to a Master of Science in Nutrition and Food Systems. There are two concentration areas, the Traditional MS and the Accelerated Coordinated Program in Dietetics. Only University of Kentucky students admitted to the Accelerated Coordinated Program in Year 3 of the undergraduate degree program (Option B in BS in Dietetics) can enter this concentration area.

The Traditional MS includes a 17-hour graduate-level core emphasizing contemporary nutrition topics, such as research methods and health behavior theories, community programming and intervention development, food systems, chronic disease diagnosis and processes related to lifestyle behaviors, statistics, and a nutrition and food systems seminar. The Accelerated Coordinated Program in Dietetics includes an 18-hour graduate-level core that emphasizes a variety of nutrition topics, such as evidence-based practices, research methods and health behavior theories, community programming and intervention development, food systems, chronic disease diagnosis and process related to lifestyle behaviors.

Admission Requirements

Admission to the MS in Nutrition and Food Systems program is selective and competitive. Students must have a relevant undergraduate degree from an accredited institution; a minimum GPA of 3.0 with conditional admittance considered; a phone or in-person interview with the Director of Graduate Studies or Department Chair; submission of a written essay, a technical scientific writing sample (student topic choice), and three letters of recommendation.

Admission to the Accelerated Coordinated Program in Dietetics is selective and competitive; students are expected to maintain a rigorous schedule in order to complete all required courses for the undergraduate and graduate degrees as well as the hours for the supervised practice within 10 semesters and three summer sessions. The Accelerated Coordinated Program Concentration Area of the MS in Nutrition and Food Systems will only be available to students who were admitted to the Accelerated Coordinated Program (Option B of BS in Dietetics) during Year 3 in the University of Kentucky BS in Dietetics program. Students must have a cumulative GPA of 3.0 to apply. The application will include a personal statement, three letters of recommendation, and an interview. As such, this program is only available to

University of Kentucky students. Students from other colleges and universities can apply for, and be admitted into, the UK MS in Nutrition and Food Systems, but only for the "Traditional MS Concentration Area."

Degree Requirements

The Master of Science program prepares students for careers in community, education, government, industry, non-profit, health care or private practice settings. A student in the Traditional MS concentration may choose the Plan A - Thesis or Plan B - Project.

Plan A - Thesis requires the 17-hour core, 7 hours of electives to explore areas of personal interest, 6 additional hours of research credit and a written thesis and oral defense.

Plan B - Project requires the 17-hour core, 13 hours of electives, 6 additional hours of special problems, and a project presentation and exam.

A student in the Accelerated Coordinated Program in Dietetics concentration area can only complete Plan B - Project. For these students, the Project requires the 18-hour core, 18 hours of electives, and 16 hours of supervised practice coursework.

Traditional MS Plan A and B Core Courses

- DHN 600 RESEARCH METHODS IN NUTRITION AND FOOD SYSTEMS (3)
- DHN 603 ADVANCED COMMUNITY PROGRAM DEVELOPMENT (3)
- DHN 605 FOOD SYSTEMS AND SOCIETY (3)
- DHN 608 CHRONIC DISEASE MANAGEMENT AND PROCESS (3)
- DHN 774 SEMINAR IN NUTRITION AND FOOD SYSTEMS (3)
- STA 671 REGRESSION AND CORRELATION (2)
- DHN 768 RESIDENCE CREDIT FOR THE MASTERS DEGREE (Plan A only) (6)
- DHN 782 SPECIAL PROBLEMS (Plan B only) (6)

A 500-level statistics course is a pre-requisite to the graduate program and may be taken during the existing graduate program.

Accelerated Coordinated Program Courses

Core Courses

- DHN 581 APPLIED EVIDENCE-BASED PRACTICE IN DIETETICS (3)
- DHN 597 OBESITY AND FOOD INSECURITY PARADIGM: FROM CELL TO SOCIETY (3)
- DHN 598 GLOBAL FOODS, DIET AND CULTURE (3)
- DHN 605 FOOD SYSTEMS AND SOCIETY (3)
- DHN 608 CHRONIC DISEASE MANAGEMENT AND PROCESS (3)
- DHN 680 ADVANCED EVIDENCE-BASED PRACTICE IN DIETETICS (3)

Supervised Practice Courses

- DHN 720 DIETETICS SUPERVISED PRACTICE: MEDICAL NUTRITION THERAPY I (4)

- DHN 722 DIETETICS SUPERVISED PRACTICE: FOOD SERVICE SYSTEMS MANAGEMENT I (4)
- DHN 724 DIETETICS SUPERVISED PRACTICE: FOOD SERVICE SYSTEMS MANAGEMENT II (2)
- DHN 726 DIETETICS SUPERVISED PRACTICE: MEDICAL NUTRITION THERAPY II (2)
- DHN 728 DIETETICS SUPERVISED PRACTICE: COMMUNITY NUTRITION I (2)
- DHN 730 DIETETICS SUPERVISED PRACTICE: COMMUNITY NUTRITION II (2)

Elective Courses for MS NFS Concentration Areas

- DHN 607 FOOD RELATED BEHAVIORS (3)
- DHN 690 ADVANCED WORK IN DIETETICS (3)
- DHN 620 NUTRITION AND AGING (3)
- DHN 630 ADVANCED COMMUNITY NUTRITION (3)
- DHN 640 HUMAN NUTRITION: ASSESSMENT (3)
- DHN 690 ADVANCED WORK IN DIETETICS (3)
- DHN 784 SPECIAL PROBLEMS IN FINANCIAL MANAGEMENT (3)

Students may also choose appropriate electives outside the department with the permission from the instructor.

Nutritional Science, PhD

The impact of nutrition on health and disease has produced major clinical and public policy challenges that are shaping research and career opportunities for highly trained nutritional scientists in academia, industry and government. Disease prevention efforts, increased health consciousness and an aging population are further fueling the demand for nutritional scientists. The interdisciplinary Division of Nutritional Sciences enables students in its Ph.D. program to explore the interrelationship between environmental factors and nutrients and their effect on biochemistry, physiology and disease development. More than 50 faculty members provide teaching and individualized research guidance across over 20 departments and divisions in the University's Colleges of Medicine, Health Sciences and Agriculture, as well as the Colleges of Pharmacy, Nursing, and Education. A primary area of research and training targets nutrition and chronic diseases, with a focus on obesity and associated disorders of cardiovascular disease, diabetes and cancer. Other specialty areas include nutrition and oxidative stress, nutrition and aging, clinical nutrition, animal nutrition and food science.

Admission Requirements

There are two ways to be admitted into the PhD program: **direct admission** or through the IBS Program. If accepted into the Integrated Biomedical Sciences (IBS) Program, you will have the opportunity to rotate through 4 research labs during your first year of study; these could be with Nutritional Sciences faculty or with other faculty in the College of Medicine.

Direct Admission Requirements

Applicants must meet the following requirements for admission to the University of Kentucky Graduate School and the Nutritional Sciences Ph.D. program:

1. A baccalaureate degree from a fully accredited institution of higher learning.
2. An M.S. degree with a Grade Point Average (GPA) of 3.2 or above on a 4.0 scale, or a B.S. degree with a GPA of 3.0 or above on a 4.0 scale.
3. For international applicants, a minimum score of 550 out 667 maximum possible is required on the paper-based Test of English as a Foreign Language (TOEFL), a minimum 213 score on the computer-based TOEFL (maximum 300), or 79 on the internet-based TOEFL. The minimum International English Language Testing Service (IELTS) score is 6.5. All applicants must demonstrate proficiency in verbal and written English.
4. Course Prerequisites: an undergraduate physiology course (PGY 206 at UK), 1 year of general chemistry (CHE 105 and 107 at UK), and 1 semester of organic chemistry (CHE 236 at UK).

Degree Requirements

Program Website:

<https://pharmns.med.uky.edu/pharmns-phd-program>

Core Courses for Ph.D. Total credits required for degree = 36

Academic Course Prerequisites to Program:

Biology (2 semesters)

General Chemistry (2 semesters)

Organic Chemistry (1 semester)

Undergraduate Biochemistry and Physiology

CORE CURRICULUM FOR PHD PROGRAM IN NUTRITIONAL SCIENCES

- NS 601 INTEGRATED NUTRITIONAL SCIENCES I (3)
- NS 602 INTEGRATED NUTRITIONAL SCIENCES II (3)
- CNU 603/NS 603 INTEGRATED NUTRITIONAL SCIENCES III (2)
- CNU 609/NS 609 ETHICS IN CLINICAL SCIENCES RESEARCH (1) or TOX 600 ETHICS IN SCIENTIFIC RESEARCH (1)
- NS 704 CURRENT TOPICS IN NUTRITIONAL SCIENCES (1)
- NS 771 GRADUATE SEMINAR IN NUTRITIONAL SCIENCES** (1+)**
- IBS 611 PRACTICAL STATISTICS (2) or STA 570 BASIC STATISTICAL ANALYSIS (3)
- IBS 601/BCH 607 BIOMOLECULES AND METABOLISM (3)
- IBS 602 MOLECULAR BIOLOGY AND GENETICS (3)
- IBS 603 CELL BIOLOGY AND SIGNALING (3)

- IBS 606 PHYSIOLOGICAL COMMUNICATION (3) or PGY 412G PRINCIPLES OF HUMAN PHYSIOLOGY (4) or PGY 502 SYSTEMS, CELLULAR AND MOLECULAR PHYSIOLOGY (5)
- Additional Electives (7-12)
- **Total Credits 36**

**All Ph.D. students must register for 0 credit (except for the one semester registered for 1 credit) and attend all GCNS seminars during their residency at the University of Kentucky. Minimum of 1 credit is required before qualifying examination. In addition, all GCNS doctoral candidates will present a seminar once/year post-qualifying exam. Electives: The student must successfully complete a minimum of 7 credit hours in electives. Elective courses are recommended by the Advisor and approved by the Advisory Committee.

ELECTIVE COURSES

Students must successfully complete a minimum of 7-12 credit hours in electives to meet the minimum requirement of 36 total credits. Elective courses are recommended by the Advisor and approved by the Advisory Committee. A full list of Elective Courses is available in the Handbook. Note, IBS 610 & IBS 608 taken in year one by students admitted through the IBS program fulfill elective requirements.

Nutritional Sciences, MSNS

The impact of nutrition on health and disease has produced major clinical and public policy challenges that are shaping research and career opportunities for highly trained nutritional scientists in academia, industry and government. Disease prevention efforts, increased health consciousness and an aging population are further fueling the demand for nutritional scientists. The interdisciplinary Division of Nutritional Sciences enables students in Masters of Science program to explore the interrelationship between environmental factors and nutrients and their effect on biochemistry, physiology and disease development. More than 50 faculty members provide teaching and individualized research guidance across over 20 departments and divisions in the University's Colleges of Medicine, Health Sciences and Agriculture, as well as the Colleges of Pharmacy, Nursing, and Education. A primary area of research and training targets nutrition and chronic diseases, with a focus on obesity and associated disorders of cardiovascular disease, diabetes and cancer. Other specialty areas include nutrition and oxidative stress, nutrition and aging, clinical nutrition, animal nutrition and food science.

Students in the MS in Nutritional Sciences program choose from one of the four emphasis areas: clinical nutrition, molecular and biochemical nutrition, community nutrition, and wellness/sports nutrition.

Admission Requirements

1. Transcript showing a baccalaureate degree from a fully accredited institution of higher learning.
2. A minimum undergraduate grade point average of 2.9 on undergraduate coursework and a 3.0 on all graduate work.
3. For international applicants, a minimum score of 550 on the paper-based Test of English as a Foreign Language (TOEFL), which has a maximum score of 667; score of 213 on the computer-based TOEFL (maximum 300), or 79 on the internet-based TOEFL. The minimum International English Language Testing Service (IELTS) score is a 6.5. All applicants must demonstrate proficiency in verbal and written English.
4. Admission for the M.S. in Nutritional Sciences with Clinical Nutrition Emphasis is limited to those with a B.S. in Dietetics, having an RD, or being RD eligible.

5. Course Prerequisites: you would need to have taken an undergraduate physiology course (PGY 206 at UK) and it is highly recommended that you have taken 1 year of general chemistry (CHE 105 and 107 at UK) and 1 semester of organic chemistry (CHE 236 at UK). Biochemistry is also a prerequisite course but it can be taken your first semester for graduate credit (BCH 401G). It has prerequisites of CHE 107 and CHE 236.

Degree Requirements

Program Websites: <https://pharmns.med.uky.edu/pharmns-masters-program> and <https://pharmns.med.uky.edu/pharmns-nutritional-sciences>

The MS in Nutritional Sciences degree program is available in two options:

- **Plan A:** 30 credits, includes 6 credit hours of thesis research (NS 768)
- **Plan B:** 30 credits, non-thesis option

Core Courses for MS (12-15 credits)

- NS 601/CNU 601 INTEGRATED NUTRITIONAL SCIENCES I (3)
- NS 602/ASC 602/CNU 602 INTEGRATED NUTRITIONAL SCIENCES II (3)
- NS 603/CNU 603/FSC 603 INTEGRATED NUTRITIONAL SCIENCES III (2)
- NS 704/CNU 704/DHN 704 CURRENT TOPICS IN NUTRITIONAL SCIENCES (1)
- STA 570 BASIC STATISTICAL ANALYSIS (4) **or** IBS 611 PRACTICAL STATISTICS (2)
- NS 771 GRADUATE SEMINAR IN NUTRITIONAL SCIENCES (taken twice) (0)
- NS 771 GRADUATE SEMINAR IN NUTRITIONAL SCIENCES (taken once) (1**)
- NS 768 RESIDENCE CREDIT FOR THE MASTERS DEGREE (6**)
- NS 782/CNU 782/DHN 782 SPECIAL PROBLEMS (1-6*)
- NS 609/CNU 609 (1)

*Plan B Only

**Plan A Only

Courses for Emphasis in Clinical Nutrition

Prerequisite- B.S. in Dietetics and/or meeting ADA Dietetics requirements for internship

- CNU 501 NUTRACEUTICALS AND FUNCTIONAL FOODS IN HEALTH AND DISEASE PREVENTION (2) **or** CNU 502 OBESITY C2C: CELL TO COMMUNITY (SUBTITLE REQUIRED) (2)
- NS 702/CNU 702 CLINICAL/WELLNESS PROBLEM-BASED CASE STUDIES (1-3)
- CNU 611 ADVANCED MEDICAL NUTRITION THERAPY (2)
- CNU 612 ASSESSMENT SKILLS FOR THE CLINICAL NUTRITIONIST (2)

Emphasis Credits = 7-9

Electives to equal a minimum of 30 credit hours

Courses for Emphasis in Wellness and Sports Nutrition

- NS 605/CNU 605 ADVANCED SPORTS NUTRITION (3)
- KHP 600 EXERCISE STRESS TESTING AND PRESCRIPTION (3)
- KHP 620 ADVANCED EXERCISE PHYSIOLOGY (3)
- CNU 501 NUTRACEUTICALS AND FUNCTIONAL FOODS IN HEALTH AND DISEASE PREVENTION (2)

Emphasis credits = 11

Electives to equal a minimum of 30 credit hours

Courses for Emphasis in Community Nutrition

- CPH 605 EPIDEMIOLOGY (3)
- DHN 603 ADVANCED COMMUNITY PROGRAM DEVELOPMENT (3)
- DHN 607 FOOD RELATED BEHAVIORS (3)

Emphasis credits= 9

Electives to equal a minimum of 30 credit hours

Courses for Emphasis in Molecular and Biochemical Nutrition

- IBS 601/BCH 607 BIOMOLECULES AND METABOLISM (3)
- BCH 608 BIOMOLECULES AND MOLECULAR BIOLOGY (3) or IBS 602 MOLECULAR BIOLOGY AND GENETICS (3)
- NS 606/CNU 606 MOLECULAR BIOLOGY APPLICATIONS IN NUTRITION (2)

Emphasis Credits= 8

Electives to equal a minimum of 30 credit hours

Students can focus their curriculum in one of the four emphasis areas outlined above by selecting elective courses that meet their professional needs and personal interests. A full list of approved electives with course descriptions is available in the handbook on the program website.

Orff-Schulwerk Certificate

Orff Schulwerk is the music approach created by composers Carl Orff and Gunild Keetman. The Schulwerk is a way to teach and learn music using poems, rhymes, games, songs, and dances as basic materials. The University of Kentucky offers Schulwerk teacher training courses, mostly in the summers, taught by Orff experts. Training is given at levels 1, 2, 3 and advanced master's courses in different topics such as curriculum design, and composition. The graduate certificate in Orff Schulwerk is a twelve-hour curriculum in four components:

1. Orff teacher training level one (MUS 560/561, 2-4 credits).
2. Orff teacher training level two (MUS 560/561, 2-4 credits).
3. Orff teacher training level three (MUS 560/561 2-4 credits)
 - Or Orff master courses (prerequisite: Orff teacher training level 2)

4. Certificate project (MUS 767 1-3 credits) (prerequisite: Orff teacher training level 2)
Each student must take all four of the components, each at two credits minimum, for a total of 12 credit hours. Each component is offered at variable credits. All credits earned in this certificate may be applicable towards the Master of Music in Music Education degree (M.M.M.E.) or the rank i in music education program. Admission requirements are the same as those in effect for post-baccalaureate status, and approval of the certificate director. The certificate is awarded upon completion of the certificate curriculum within five years, and with a minimum of 3.0 GPA.

Orientation and Mobility, MAEDU

The Department of Early Childhood, Special Education, & Counselor Education offers a Master of Arts Program in Orientation and Mobility (O&M). The program uses a hybrid course delivery model, including both face-to-face and on-line courses. Face-to-face courses occur on weekends and in the summer at either the Kentucky School for the Blind (KSB) in Louisville or at the University of Kentucky in Lexington.

The O&M program prepares individuals to provide instruction related to knowledge and skills for independent travel for children and adults with visual impairments, including those with additional disabilities. These professionals teach topics including: the use of canes and dog guides, independent travel skills, sensory and motor development, and advanced travel in complex environments.

The University of Kentucky has the distinction of offering the only O&M program in Kentucky.

Admission Requirements

Applicants must have completed a bachelor's degree in any field with a minimum of 2.75 overall or 3.0 GPA in the last 30 credit hours to apply.

Applications must include the following:

- Resume/CV
- Personal Statement (1-2 pages on why you want to be an O&M specialist)
- Official transcripts from all previous universities or colleges
- Three (3) completed reference forms or letters

Applications are accepted in the spring on even years for a fall semester start of that year.

Degree Requirements

Prerequisite Coursework (see program website for more information on transfer courses and concurrent enrollment)

- BVI 580 INTRODUCTION TO VISUAL IMPAIRMENTS (3)
- BVI 582 ANATOMY AND PHYSIOLOGY OF THE EYE (3)

- BVI 583 BRAILLE CODES I (3)

30 credit hours with an overall GPA of 3.0

- CED 525 HUMAN GROWTH, DISABILITY, AND DEVELOPMENT ACROSS THE LIFESPAN (3)
- BVI 620 FOUNDATIONS OF ORIENTATION AND MOBILITY (3)
- BVI 621 INTRODUCTION TO SKILLS AND TECHNIQUES IN ORIENTATION AND MOBILITY (2)
- BVI 622 ADVANCED SKILLS AND TECHNIQUES IN ORIENTATION AND MOBILITY (2)
- BVI 623 ORIENTATION AND MOBILITY FOR CHILDREN (3)
- BVI 624 TECHNOLOGY IN ORIENTATION & MOBILITY (1)
- BVI 626 METHODS IN ORIENTATION AND MOBILITY (3)
- BVI 627 ORIENTATION AND MOBILITY FOR INDIVIDUALS WITH COMPLEX NEEDS (3)
- BVI 628 ASSESSMENT IN ORIENTATION AND MOBILITY (3)
- BVI 629 PRACTICUM IN ORIENTATION AND MOBILITY (1)
- BVI 720 INTERNSHIP IN ORIENTATION AND MOBILITY (6)

Successful completion of practicum and internship

- Refer to program website for specific requirements

Satisfactory demonstration of all program standards

Program website: <https://www.uky.edu/academics/masters/orientation-and-mobility-graduate>

Orofacial Pain Certificate

The program is a 42-credit hour Graduate Certificate in Orofacial Pain designed to meet the needs of the dental practitioner interested in practicing the management of orofacial pain. The dental profession has recently recognized the field of orofacial pain as a dental specialty that requires clinicians to gain specialty status in orofacial pain. The two-year certificate program will meet the criteria for board eligibility for orofacial pain specialty. This certificate is designed as a complement to the MS in Orofacial Pain, where the difference the proposed certificate program and the already established MS Dentistry's concentration in Orofacial Pain is a research component.

Pharmaceutical Sciences, MS

The MS in Pharmaceutical Sciences (MSPS) degree is designed to provide training in research and scholarship within a pharmaceutical sciences discipline for students seeking careers that include a research component, such as those in the pharmaceutical industry, managed care organizations, state and local health departments, academic healthcare systems, and healthcare colleges. The MS program is designed as a component of the PharmD/MS in Pharmaceutical Sciences Dual Degree Program, or

alternatively can be awarded to students pursuing a PhD in Pharmaceutical Sciences who change to the MS path. Graduates will be well prepared for a variety of career options, or alternatively a student in the Dual Degree Program could elect to continue their education by applying to the UK College of Pharmacy PhD Program in Pharmaceutical Sciences. Students that participate in this program can choose any aspect of research conducted by investigators at the UKCOP. These include five training tracks: Medicinal, Bioorganic & Computational Chemistry, Pharmaceutical Chemistry & Engineering, Pharmacology and Experimental Therapeutics, Clinical and Experimental Therapeutics, and Pharmaceutical Outcomes & Policy. Students must be admitted and enrolled in the University of Kentucky College of Pharmacy to be considered for this dual degree.

Admission Requirements

Admission to the MS program is restricted to students who are currently enrolled in the Doctor of Pharmacy Program at the UK College of Pharmacy (PharmD/MS Dual Degree Program), enrolled in the Pharmaceutical Sciences PhD Program at the UK College of Pharmacy who elect to switch to the MS path, or who receive special permission from the program to apply. Admission is competitive and is based on academic achievement (minimum 3.0/4.0 GPA in PharmD curriculum) and a letter of recommendation from a faculty research mentor.

Degree Requirements

The program follows the coursework requirements as set by the Graduate School for the master's degree. Students must earn at least 30 credits. At least two-thirds of the minimum requirements for the master's degree must be in regular courses, and at least half of the minimum course requirements (excluding thesis, practicum, or internship credit) must be in 600-or700-level courses. Candidates for the master's degree must have a major research focus area and must take at least two-thirds of the course work in this discipline. The other one-third may be taken in this area or in related graduate areas.

Under the dual degree program, 2 current PharmD courses will count towards graduate credit (PHR 951 SCHOLARSHIP I [3 credit hours] and PHR 961 SCHOLARSHIP II [3 credit hours]. Other graduate courses will be taken to account for the 8 credit hours of elective credits needed for the PharmD curriculum.

Students may satisfy the master's requirements by either of two options, thesis (Plan A) or non-thesis, (Plan B). The thesis option (Plan A) requires a thesis to be developed under the direction of a full or associate member of the Graduate Faculty. Collaborative effort by two or more graduate students is not forbidden. However, there must be enough independent effort to enable each student to make a separate contribution and to prepare an individual thesis. Before the final examination, the thesis director and the appropriate Director of Graduate Studies must indicate to the Graduate School that the student's thesis satisfies all requirements of the Graduate School and is complete in content and format with the exception of pagination, and that the student is ready to be examined. Any modification in the thesis which the final examination committee specifies must be made before the degree is conferred. Master's candidates working on their theses may enroll in 6 credits of course number PHS 768 .

The non-thesis option (Plan B) requires that six or more graduate credit hours of course work be submitted in lieu of a thesis. A student may follow this option with approval of the program concerned. Students should consult their advisor for any additional requirements established for Plan B in their area of study.

<https://pharmacy.uky.edu/admission-aid/phd-program>

Pharmaceutical Sciences, PhD

The Graduate Program in Pharmaceutical Sciences is a multidisciplinary program designed to prepare motivated individuals for academic, industrial, or government careers in pharmaceutical and biomedical research. It is a graduate training program that encompasses research in areas of pharmaceutical sciences that range from identifying fundamental mechanisms of human disease, to the design, development and formulation of new medicines, to understanding the impact of drug policies on health care systems. Within this broad scientific framework, students develop individually tailored programs of study to meet their particular research interests and career objectives.

Intense, laboratory-based and data and analysis driven research, using state-of-the-art techniques and instruments, forms the basis of a student's PhD dissertation. Each student develops the skills and judgment to make a unique, scholarly contribution to our understanding of drugs and how these compounds impact human health and disease. Students receive the training that will enable them to become independent scientists who can conduct front-line research in pharmaceutical sciences in industrial, academic or governmental settings.

The overall goal of the graduate program is to provide the graduate student with a comprehensive, structured, yet flexible educational experience comprised of both coursework and independent, highly creative, research. This goal is supported by additional components, such as research rotations for first-year students and a program-wide seminar series. The intent is to provide both depth and breadth of expertise in the Pharmaceutical Sciences along with developing the creative and critical approach to research that characterizes a PhD-level scientist.

Training Options

Doctoral degrees in Pharmaceutical Sciences at the College of Pharmacy are obtained through one of five Tracks.

Medicinal, Bioorganic and Computational Chemistry Track

The Division of Medicinal, Bioorganic and Computational Chemistry (MBCC) is focused on small molecules as well as new protein and nucleic acid based therapies, and natural product drug discovery platforms and seeks to expand its expertise with interests in synthetic/biosynthetic approaches for drug discovery, development of novel computational tools for drug design, and evolution of biologics for specific therapies or drug delivery.

Pharmaceutical Chemistry and Engineering Track

The Division of Pharmaceutical Chemistry and Engineering (PCE) focuses on drug formulation, development and delivery. Areas of emphasis include the application of physical, physical organic, and analytical chemistry to solve pharmaceutical problems; the design, development, and optimization of dosage forms for small and large molecules; and fundamental research into materials science and nanotechnology to advance drug delivery systems design. Collaborations with faculty in the UK College of Engineering provide additional opportunities for a combined pharmaceutical and engineering research program. In addition, faculty participate in preclinical and/or clinical projects through collaborative relationships within the College of Pharmacy and with investigators across the UK Medical Center Complex.

Pharmacology and Experimental Therapeutics Track

The Division of Pharmacology and Experimental Therapeutics (PET) draws upon campus-wide strengths in neurobiology, cardiovascular disease, oncology and infectious diseases. Strong collaborations exist with the Sanders-Brown Center on Aging, addiction/abuse consortia, and the Markey Cancer Center, which recently received NCI Cancer Center designation. Division faculty are skilled in pharmacokinetic and pharmacodynamics, systems biology, neurochemistry and neurophysiology. Translational research programs bridging preclinical and/or clinical projects through collaborative relationships within the College of Pharmacy and with investigators across the UK Medical Center Complex also exist.

Clinical and Experimental Therapeutics Track

The focus of the Clinical and Experimental Therapeutics (CET) Track is translational research, and involves training in how to conduct studies that occur at the interface of basic and clinical research. Since all students admitted to the program will already have a clinical/health profession degree, the emphasis of the program will be training in the basic sciences. This breadth and balance of skills will improve the graduate's ability to successfully compete for extramural funding and job opportunities. There are required clinical components to assure competency in the foundations, principle and processes of clinical research. The keystone of the training is the conduct of an integrated, combined laboratory-based and clinical dissertation.

Pharmaceutical Outcomes and Policy Track

The goal of the Pharmaceutical Outcomes and Policy (POP) Track is to train scientists to conduct research on the safe, efficient, and effective use of pharmaceuticals to improve the health of individuals and populations. The emphasis of the program will be on building a core set of analytical skills and tools to evaluate the impact of clinical interventions and clinical outcomes. Students complete core classes in five areas: pharmacoepidemiology, pharmacoconomics, statistics, biomedical informatics, and pharmaceutical policy. This breadth and balance of skills will improve the graduate's ability to successfully compete for extramural funding and contribute to the scholarly literature on pharmaceutical outcomes.

<https://pharmacy.uky.edu/admission-aid/phd-program>

Admission Requirements

Admission to the graduate program is competitive and is based upon academic background, professional recommendations, experience and interviews. To be considered for the CET Track, completion of a clinical degree (MD, PharmD, DDS, DVM, etc.) is required.

Degree Requirements

Students must complete a minimum of 36 credit hours in order to sit for the qualifying exam. After successfully completing the qualifying exam, students are required to complete a minimum of two semesters

of 767 before they can graduate. Students must remain continuously enrolled in 767 every fall and spring semester until they have completed and defended the dissertation.

Doctoral Program Core Coursework

Each Track has a distinct set of courses. These courses may be offered in the Graduate Program of Pharmaceutical Sciences, or available outside of the Program. The mentor and the Dissertation Advisory Committee are empowered to select those courses that fit best into the educational and career goals of the student and the scientific goals of the dissertation. The Track Coordinator (for first-year students) or mentor and the Dissertation Advisory Committee are empowered to petition the DGS, in writing, to waive courses of the Graduate Program Core if the student has demonstrated sufficient academic mastery of material in courses taken in other programs. The DGS will monitor the coursework of students and keep the Advisory Committee members apprised as to the student's grades and completion of courses. Coursework and grades are reviewed by the Advisory Committee at each yearly meeting.

The student's Dissertation Advisory Committee is responsible for coursework recommendations that are in addition to the common coursework of the program and courses recommended by the Track faculty. Full descriptions of available graduate courses are described in the course section of this bulletin.

Pharmacology, PhD

Graduate study in Pharmacology is designed to prepare candidates for research careers in academics, industry or government laboratories and agencies. The Ph.D. program in Pharmacology trains students in the fundamental principles of basic molecular and biochemical science, while also providing training in the principles of drug-receptor interactions, of experimental therapeutics and of drug discovery. Modern pharmacology also emphasizes new directions in gene therapy and pharmacogenetics. Students learn the conceptual and technical basis of research while performing mentored and, subsequently, independent research projects in laboratories equipped with state of the art technology and instrumentation.

Students will have the opportunity to join nationally recognized faculty research programs in investigating topics such as: Cardiovascular Disease and Obesity; Molecular Biology of Carcinogenesis and Metastasis; and Neurobiology of Aging and Neurodegenerative Disease, with emphases on memory, hormones, stress, and Type II Diabetes.

Admission Requirements

Admission to the graduate program is competitive and is based upon academic background, professional recommendations, performance on the Graduate Record Examination (GRE), experience, and when possible, personal interviews. It is recommended that students have completed undergraduate courses in organic chemistry, calculus, physics, and biological sciences. The program of study is tailored to the individual background and career goals of the student and can often include interdepartmental study and research. Students are expected to participate in journal clubs and research seminars; to interact with visiting scholars; and to present the results of their research at local and national meetings. Financial aid is available for qualified students.

Admission to the Ph.D. program in Pharmacology is through the Integrated Biomedical Sciences (IBS) program. Information about the admissions process is available at <https://www.uky.edu/academics/doctoral/integrated-biomedical-sciences-graduate>

For information about the Ph.D. program in Pharmacology, please contact the Director of Graduate Studies, Department of Molecular and Biomedical Pharmacology, University of Kentucky College of Medicine, Lexington, KY 40536-0298. Information may also be obtained from <https://www.uky.edu/academics/doctoral/collegeofmedicine/pharmacology-graduate>

Degree Requirements

FIRST YEAR: Integrated Biomedical Sciences Courses

- IBS 601 BIOMOLECULES AND METABOLISM (3 credits)
- IBS 602 MOLECULAR BIOLOGY AND GENETICS (3 credits)
- IBS 603 CELL BIOLOGY AND SIGNALING (3 credits)
- IBS 606 PHYSIOLOGICAL COMMUNICATION (3 credits)
- IBS 608 SPECIAL TOPICS IN INTEGRATED BIOMEDICAL SCIENCES (2 credits)
- IBS 610 CRITICAL SCIENTIFIC READINGS (1 credit)
- IBS 611 PRACTICAL STATISTICS (1 credit)
- TOX 600 ETHICS IN SCIENTIFIC RESEARCH (1 credit)

Required Courses in the Pharmacology Curriculum:

- PHA 621 PRINCIPLES OF DRUG ACTION (3 credits)
- PHA 622 MOLECULAR DRUG TARGETS & THERAPEUTICS (4 credits)

Advanced Pharmacology Electives:

- PHA 616 BIOLOGY AND THERAPY OF CANCER (3 credits)
- PHA 617 PHYSIOLOGICAL GENOMICS (2 credits)

Minimum 36 credits must be earned prior to the Qualifying Examination.

Philosophy, PhD

The Department of Philosophy at the University of Kentucky offers programs of study leading to the Doctor of Philosophy degree. Applicants may, once admitted to the Ph.D. program, apply to leave the program with an M.A. only.

The purpose of the Ph.D. program is to develop the student's ability to complete a Doctoral degree successfully. Doing so will enable the student to do independent research in philosophy, to secure an academic job at the University or College level, or to pursue a career in which rigorous and critical thinking are desired.

The purpose of the M.A. degree is to provide the student with a fundamental understanding of the major historical and contemporary points of view in all of the basic areas of philosophical inquiry and to develop the student's capacity to formulate and analyze philosophical problems. Such a degree is suitable either as preparation for further study in Philosophy or as a complement to advanced training in a variety of other fields.

Admission Requirements

It is expected that candidates admitted to the graduate program in philosophy will: (1) provide proof of completion of a B.A., B.S., or M.A.; (2) have given evidence of superior skills on the GRE; (3) have achieved an overall grade-point average of at least 3.2 (4.0 scale) in all undergraduate course work; and (4) have achieved an overall grade-point average of at least 3.5 in all graduate course work.

Degree Requirements

Satisfactory progress through the Ph.D. program is typically made by fulfilling seven general requirements, each merely summarized here. (The requirements are more technical than this: please refer only to the official program regulations for the authoritative statement of the requirements).

1. At least 52 hours of course work (including 4 hours of PHI 767), with specific distributional requirements.
2. Satisfactory completion of PHI 741 and PHI 742 (1st year Prosem).
3. Satisfactory completion of PHI 740 (Teaching Practicum).
4. Satisfactory completion of PHI 520 : Logic, or its equivalent.
5. Satisfactory demonstration of reading competence in one foreign language relevant to the student's philosophical program of study (e.g., Greek, Latin, French, or German).
6. Satisfactory completion of three steps preparatory to writing the dissertation: the Area Proposal, the Qualifying Exam, the Dissertation Proposal (each of these steps has written and oral components).
7. Satisfactory completion and oral defense of a Dissertation.

The coursework requirements differ depending on previous graduate coursework, specifically whether one enters with no M.A. in Philosophy, a one-year M.A. in Philosophy, a two-year M.A. in Philosophy. See these checklists for summaries:

- Checklist of PhD requirements (no previous M.A.)

- Checklist of PhD requirements (previous one-year M.A.)
- Checklist of PhD requirements (previous two-year M.A.)

Physician Assistant Studies, MSPAS

The University of Kentucky, Division of Physician Assistant Studies (PAS) offers a Plan B, non-thesis, physician assistant master's degree program that is accredited by the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA). The Master of Science in Physician Assistant Studies (M.S.P.A.S.) program is designed for students who wish to become PAs and hold a baccalaureate or will have earned a baccalaureate degree by the time they enter the program. The M.S.P.A.S. program is offered at two distinct locations in either Lexington or Morehead, KY.

The mission of the University of Kentucky Physician Assistant Studies program is to improve the health and well-being of the people in the Commonwealth of Kentucky by graduating competent and compassionate physician assistants who will become transformative leaders in their practices and communities. Accordingly, we seek applicants who have a strong interest in practicing medicine in Kentucky, especially its most underserved areas. We employ a holistic approach to choose those students who will best fulfill our mission. Graduates of the program are eligible to take the Physician Assistant National Certifying Examination. After successful completion of the NCCPA Exam, graduates are eligible for state certification/licensure to practice as certified physician assistants.

Admission Requirements

The admissions cycle to the M.S.P.A.S. program is a competitive application and interview process occurring annually (April - July), with each cohort matriculating in January. Applicants select one campus (Lexington or Morehead) and apply simultaneously to the Centralized Application Service for Physician Assistants (CASPA) and the UK Graduate School application. Students must satisfy admissions requirements for both the Graduate School and the Physician Assistant Studies Program. For more detailed information on the program admissions requirements, please visit the program website.

Bachelor's Degree

All applicants must meet the minimum academic standards for the Graduate School. Completion of a bachelor's degree from a regionally accredited college or university is required prior to entry into the program. (The UKPAS program does not require a specific degree and the program does not favor one degree over another.) Additionally, applicants may have only two outstanding prerequisite requirements at the time of application submission to be completed by August.

*Prerequisite Courses**

A "C" grade or better must be earned in the following prerequisite courses and only one retake per course requirement:

- General Chemistry 1 with laboratory 1 semester
- General Chemistry 2 with laboratory 1 semester
- Organic Chemistry with laboratory 1 semester
- General Biology with laboratory 1 semester
- Microbiology with laboratory 1 semester
- Human Anatomy 1 semester
- Human Physiology 1 semester

- Statistics 1 semester
- Psychology 1 semester
- Developmental Psychology 1 semester
- Sociology or Anthropology 1 semester
- Medical Terminology 1 semester

Graduate Record Exam (GRE)

All GRE scores must come from exams taken within the last 5 years. A minimum score is not set by the program or UK's Graduate School. The UKPAS Program accepts ONLY the GRE for our program. We do not accept any substitutes (e.g. the MCAT, PA-CAT).

TOEFL Requirements (if applicable)

International applicants or domestic students who attended a high school in which English was not the primary language are required to submit TOEFL iBT scores in addition to the GRE. A minimum score of 26 in each category must be obtained: Reading, Listening, Speaking, & Writing.

Patient Care Experience

The UKPAS Program requires patient contact, however a minimum amount of hours is not set. Contact hours may be completed utilizing the following (but not limited to) medical disciplines: CNA, EMT, CMA, Medical Tech., phlebotomist, etc.

Additional Recommendations

Shadowing, leadership, and volunteer experience are strongly recommended to be a competitive applicant.

Letters of Recommendation

Three (3) letters of recommendation are required from people acquainted with the applicant for at least one year and familiar with his/her professional goals. They must be submitted with the CASPA application. Letters should come from the following sources:

- Letter 1 - PA or Physician
- Letter 2 - Academic Professor, Advisor, or Committee
- Letter 3 - Medical (i.e. PA, physician, nurse manager, etc.) or Academic

Admissions Essay

The admission essays are completed through the CASPA application. Essays must be of graduate quality and reflect the applicant's commitment and understanding to the profession, program mission, campus selection, and diversity, equity, and inclusion.

Basic Life Support Certification

Applicants must be certified in Basic Life Support for Health Providers through the American Heart Association by matriculation in January. Red Cross certifications will not be accepted.

Technical & Behavioral Standards, Background Checks, & Drug Screening

All students matriculating into the UKPA Program are required to meet certain technical and behavioral standards of the program and College of Health Sciences. Additionally, applicants must pass a background check and drug screenings.

Due to the competitive nature and large number of students applying to the program, not all applicants who meet minimum requirements will be invited for an interview.

For more information and dates of General Information Sessions please visit our website.

If you have questions after visiting our website and attending an information session you may contact:

Julia Berry

UKPA Educational Didactic & Admissions Coordinator

julia.berry@uky.edu

Degree Requirements

MSPAS Program Curriculum Requirements

All students enrolled in the program will take the following courses in a lock-step format. Courses are on a 4.0 grading scale. D grades are not awarded to graduate students.

Spring

ANA 611	Regional Human Anatomy	5
PAS 620	Health Care Delivery in the 21st Century	3
PAS 651	Introduction to the PA Profession	2
PGY 412G	Principles of Human Physiology	4

Summer 4-Week Intersession

PAS 610	Research Methods & Epidemiology in PA Studies	3
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Summer 8-Week Intersession

PAS 653	Introduction to Health & Disease	3
PAS 678	Health Promotion & Disease Prevention	2

Fall

PAS 645	Master's Project	1
PAS 650	Clinical Methods	4
PAS 654	Clinical Lecture Series I	4
PAS 655	Psychosocial Factors in Primary Health Care	3

PAS 672	Pharmacology I	3
<i>Spring</i>		
PAS 646	Master's Project 2	2
PAS 656	Patient Evaluation & Management	4
PAS 657	Clinical Laboratory Procedures	3
PAS 658	Clinical Lecture Series II	4
PAS 673	Pharmacology II	3
<i>Summer 4-Week Intersession</i>		
CNU 503	Nutrition for Health Professions	1
PAS 640	Survey of Geriatric Medicine	3
<i>Summer 8-Week Intersession</i>		
<i>Students begin Clinical Year Program Clerkship Requirements; rotations are not set in any particular order</i>		
<i>Clerkships are 4-week long rotations</i>		
PAS 660	Family Medicine Clerkship (Two 4-week rotations)	6
PAS 661	Pediatric Clerkship	3
PAS 662	Obstetrics & Gynecology Clerkship	3
PAS 663	Surgery Clerkship	3
PAS 665	Clinical Practicum in Physician Assistant Studies (i.e. Electives; Three 4-week rotations)	9
PAS 669	Internal Medicine Clerkship (Two 4-week rotations)	6
PAS 670	Emergency Medicine Clerkship	3
PAS 671	Psychiatry Clerkship	3
PAS 680	Seminar in PA Studies	2
<i>Total Program Credit Hours</i>		95

Please note that any course offered in the PA program curriculum must be taken while in the program. The program does not offer advanced placement or course audits. Courses will not be allowed to transfer into the program (e.g. PGY 412G, ANA 611, etc.)

After completing the course work and clerkship requirements with a minimum 3.0 GPA, students who receive passing scores on the final graduate (Summative) examination will be awarded a Master of Science in Physician Assistant Studies (M.S.P.A.S.) degree. Graduates of the program are eligible to take the Physician Assistant National Certifying Examination. After successful completion of the exam, they are also eligible for state certification/licensure to practice as certified physician assistants.

Physics, MS

The Department of Physics and Astronomy offers courses and research opportunities leading to the M.S. and Ph.D. degrees in the areas of astronomy and astrophysics, atomic and molecular physics, low and intermediate energy nuclear physics, condensed matter physics, and particle physics. More detailed descriptions of each of these options is available at <https://pa.as.uky.edu/pa-faculty-research>.

Opportunities exist for experimental, theoretical, and computational, and observational research. Excellent laboratory facilities and library materials are available. Major facilities located within the Department are the six million volt Van de Graaff accelerator and the Center for Advanced Materials. Computational resources include the Lipscomb HPC cluster and access to XSEDE, NERSC, TACC, JLab and BNL. The Department is active in research at many national laboratories, including Jefferson Lab (Virginia), Oak Ridge National Lab (Tennessee), Los Alamos National Lab (New Mexico), Argonne National Lab. (Illinois), Brookhaven National Lab (New York), Triangle Universities Nuclear Lab (North Carolina), National High Magnetic Field Facility (Florida), and Lawrence Berkeley Lab (California) as well as international laboratories including Paul Scherrer Institute (Switzerland), TRIUMF (Vancouver), and MAX-lab (Sweden). In astronomy our students conduct research at facilities including the National Radio Astronomy Observatory (West Virginia), Arecibo Observatory (Puerto Rico), Kitt Peak National Observatory (Arizona), McDonald Observatory (Texas), and the Hubble Space Telescope, and participate in collaborations including Sloan Digital Sky Survey-IV (SDSS-IV) and the Large Synoptic Survey Telescope (LSST). Such activities expose our graduate students to state-of-the-art instrumentation and world-class researchers.

Admission Requirements

In addition to the admissions requirements of the Graduate School, the Department of Physics & Astronomy requires graduate applicants to have a sound foundation in undergraduate physics. This foundation will normally include advanced courses in classical mechanics, electromagnetism and quantum mechanics. Applicants are encouraged to take the GRE physics subject exam. Applicants wishing to apply for financial aid in the form of a teaching assistantship, research assistantship or fellowship must supply letters of recommendation from three individuals familiar with their academic capabilities. Such applicants must also submit a written statement of their interests and background in physics.

Admissions requirements are the same for the M.S. and the Ph.D. programs except that applicants for the Ph.D. must possess an interest in carrying out original research at the advanced level.

Degree Requirements

The M.S. program can include an emphasis on basic or applied physics or physics education, and students are encouraged to take courses in related programs that satisfy the appropriate academic objectives. Before taking the M.S. oral exam, the M.S. student must have completed (with a B average):

Plan A (thesis):

30 credit hours in approved graduate courses including:

- 16 hours of regularly scheduled courses (excludes the following course types: research, independent study, practicum, residency)
- 16 hours with PHY prefix (not including 768 hours)
- 12 hours at the 600/700 level (not including 768 hours)
- 2 hours of PHY 770
- Up to 6 hours of PHY 768 (optional)

Plan B (non-thesis):

30 credit hours in approved graduate courses including:

- 20 hours of regularly scheduled courses (excludes the following course types: research, independent study, practicum, residency)
- 20 hours with PHY prefix
- 15 hours at the 600/700 level

Physics, PhD

The Department of Physics and Astronomy offers courses and research opportunities leading to the M.S. and Ph.D. degrees in the areas of astronomy and astrophysics, atomic and molecular physics, low and intermediate energy nuclear physics, condensed matter physics, and particle physics. More detailed descriptions of each of these options is available at <https://pa.as.uky.edu/pa-faculty-research>.

Opportunities exist for experimental, theoretical, and computational, and observational research. Excellent laboratory facilities and library materials are available. Major facilities located within the Department are the six million volt Van de Graaff accelerator and the Center for Advanced Materials. Computational resources include the Lipscomb HPC cluster and access to XSEDE, NERSC, TACC, JLab and BNL. The Department is active in research at many national laboratories, including Jefferson Lab (Virginia), Oak Ridge National Lab (Tennessee), Los Alamos National Lab (New Mexico), Argonne National Lab. (Illinois), Brookhaven National Lab (New York), Triangle Universities Nuclear Lab (North Carolina), National High Magnetic Field Facility (Florida), and Lawrence Berkeley Lab (California) as well as international laboratories including Paul Scherrer Institute (Switzerland), TRIUMF (Vancouver), and MAX-lab (Sweden). In astronomy our students conduct research at facilities including the National Radio Astronomy Observatory (West Virginia), Arecibo Observatory (Puerto Rico), Kitt Peak National Observatory (Arizona), McDonald Observatory (Texas), and the Hubble Space Telescope, and participate in collaborations including Sloan Digital Sky Survey-IV (SDSS-IV) and the Large Synoptic Survey Telescope (LSST). Such activities expose our graduate students to state-of-the-art instrumentation and world-class researchers.

Admission Requirements

In addition to the admissions requirements of the Graduate School, the Department of Physics & Astronomy requires graduate applicants to have a sound foundation in undergraduate physics. This foundation will normally include advanced courses in classical mechanics, electromagnetism and quantum mechanics. Applicants are encouraged to take the GRE physics subject exam. Applicants wishing to apply for financial aid in the form of a teaching assistantship, research assistantship or fellowship must supply letters of

recommendation from three individuals familiar with their academic capabilities. Such applicants must also submit a written statement of their interests and background in physics.

Admissions requirements are the same for the M.S. and the Ph.D. programs except that applicants for the Ph.D. must possess an interest in carrying out original research at the advanced level.

Degree Requirements

Requirements to be Added

The Ph.D. degree is a research degree granted on the basis of broad knowledge of physics and in-depth research in a specific area leading to a dissertation (and generally publications in appropriate refereed journals). Students may perform this research at the University of Kentucky or appropriate collaborating institutions. Before taking the Ph.D. qualifying exam, the student must pass the Physics GRE at the 50th percentile or higher and satisfactorily pass core courses in graduate classical mechanics, electromagnetism, quantum mechanics, and statistical mechanics, as well as electives in topical areas of modern physics.

Physiology Teaching Certificate

The graduate certificate in Physiology Teaching provides a mechanism for students to document their competency in the basic skills necessary to teach a comprehensive physiology course. The certificate will be accessible to participants enrolled in a wide range of biomedical disciplines, but it will be especially valuable to medical science graduate students that anticipate a career in academic physiology. This 15-hour certificate is significant in that many doctoral programs in the medical sciences emphasize preparation for a research-oriented career but do very little formal instruction related to education and teaching. Our department has historically placed a high emphasis on the training of graduate students for both research and teaching careers. This certificate will recognize and document that emphasis for the students that choose to complete the certificate requirements. As research in physiology becomes more specialized, utilizing molecular and cellular approaches, there is a very real and distinct demand for physiology instructors that have experience in all levels of physiology teaching, especially systems physiology.

Physiology, PhD

Graduate study in physiology is designed to prepare candidates for careers as independent scientists in academics, industry, and government positions. Admission to the graduate program is competitive and is based upon academic background, professional recommendations, performance on the Graduate Record Examination (GRE), experience, and when possible, personal interviews. Applicants should complete an undergraduate degree in a relevant area such as biological sciences, chemical sciences, physical sciences, mathematics, psychology, or engineering. It is recommended that applicants complete courses in organic chemistry, physical chemistry, calculus, physics, and the biological sciences, as well as have some research experience.

Students will have the opportunity to join faculty research programs that cover topics including neural, endocrine, cardiovascular, renal, respiratory, sensory, and muscle physiology. Research activities employ systems, cellular, and molecular approaches. The program of study is tailored to the individual background and career goals of the student and stresses an interdepartmental approach both in the selection of courses and in the pursuit of research. Students are expected to participate in graduate seminars, journal clubs,

research seminars; to interact with visiting scholars; and to present the results of their research at local and national meetings.

Teaching opportunities leading to a graduate certificate in teaching is also available. Financial aid is available to the students accepted to the program.

Admission Requirements

Most students enter the Physiology PhD program after completing the one year Integrated Biomedical Sciences program. Further information about that program (including its admission requirements) are available at <https://graduate.med.uky.edu/integrated-biomedical-sciences>.

Some students, including those pursuing an MD/PhD or DO/PhD, may be considered for direct admittance to the Physiology program. These students typically have an ongoing professional relationship with an identified faculty mentor.

Specific questions can be addressed to the Director of Graduate Studies at pgy.dgs@uky.edu

Degree Requirements

Students must earn 36 hours of graduate credit to take their Qualifying Exam. Individuals transferring from the Integrated Biomedical Sciences program must gain a B or better in both PGY 502 SYSTEMS, CELLULAR AND MOLECULAR PHYSIOLOGY (5 credits) and PGY 602 READINGS IN SYSTEMS, CELLULAR AND MOLECULAR PHYSIOLOGY (3 credits). Most students take their Qualifying Exam after ~15 months in the Physiology department.

After passing their Qualifying Exam, students must maintain continuous enrollment in PGY 767 DISSERTATION RESIDENCY CREDIT until they have written and defended their research thesis. The mean time to graduation is ~5years.

More information is available at <https://physiology.med.uky.edu/>.

Plant Pathology, MS

Applicants seeking admission to the M.S. program in the Department of Plant Pathology as regular students must have an awarded baccalaureate degree. Each M.S. student's program is guided by a Major Professor (Dissertation Director) and an Advisory Committee throughout the student's graduate career. The purpose of the Advisory Committee is to give the student continuity of direction and counsel and provide intellectual stimulation throughout residency to completion of the degree. The DGS, or a designee (usually the Major Professor), serves as advisor to beginning graduate students until the Advisory Committee is appointed. Most students enter the program having already committed to a Major Professor; however, there is an option for an incoming student who is supported on departmental assistantship or fellowship money to do two or three short lab rotations before choosing a Major Professor. This option is not available to students who are supported on individual grant funds. The Advisory Committee should be appointed before the end of the student's second semester. The Major Professor and Advisory Committee must be recommended to the Graduate School by the DGS. The DGS will approve the committee only if it meets all Graduate School requirements (below), provides a reasonable breadth and balance of expertise in the major and related

disciplines, and presents no obvious conflicts of interest. Once the DGS has approved and recommended the committee, it will be officially appointed by the Graduate Dean. The Thesis Director and the Advisory Committee specifically set requirements (within the rules and regulations of the Plant Pathology program, Graduate School, and University), which the student must meet in pursuit of the degree.

The Department of Plant Pathology offers a primarily coursework non-thesis Master of Science degree, also called a "Plan B" Master's, designed for students seeking additional exposure and training in sub-disciplines within plant pathology without the emphasis placed on original research by the current thesis M.S. degree.

The PPA non-thesis master's degree option primarily involves academic course work followed by a written examination during the final semester of enrollment. The structured research component of the M.S. degree with thesis is not present in the non-thesis Plan B option. Since this option does not involve laboratory research, this degree track is suitable for working students. Students entering the Plan B Master's program will develop a curriculum based on their own interests, advice from a faculty advisor, the list of available classes, and the Graduate School guidelines for a non-thesis M.S. degree. Through this degree program, students can develop additional technical skills, expand their understanding in any of the major areas of plant pathology, and prepare themselves for additional educational opportunities or an upgrade in their employment position.

The typical length of time for completion of an M.S. non-thesis degree while enrolled as a part-time student is anticipated to be approximately six to eight semesters. The student will take a four-hour written exam after completing 30 graded graduate credits.

Admission Requirements

The Graduate School's requirements for admission are likewise the minimum requirements for acceptance into the M.S. program of the Department of Plant Pathology. However, additional materials are required for application to the Plant Pathology M.S. program. Each applicant must arrange for three letters of recommendation to be sent and must also provide a curriculum vitae and a written statement identifying the applicant's reasons for desiring to undertake studies in this department, to the Plant Pathology DGS. These materials, and those submitted to the Graduate School, are considered on a case-by-case basis by the department's Academic Program Committee, which then makes a recommendation on admission. Admission to a graduate program in Plant Pathology does not guarantee financial assistance to the student. Applicants who are admitted will also be informed of any financial offer in a contract that they must sign in order to be admitted to the Graduate School.

Degree Requirements

All graduate students pursuing a M.S. degree in the Plant Pathology program ideally should have, or should obtain, a background in the following areas: mathematics through differential and integral calculus; physics; chemistry, including analytical, organic, and biochemistry; and the equivalent of introductory courses in botany, plant physiology, genetics, molecular biology, statistics and microbiology. The Academic Program Committee will inform the Major Professor and the student, in writing, of any relevant course deficiencies at the time of admission to the program. Deficiencies should be corrected early in the graduate program either by formal coursework or, with the approval of the Advisory Committee, by independent study. In some cases, the Advisory Committee may decide to waive certain of these requirements, depending on the student's background, goals, and interests. Agreements regarding remedial coursework, independent study,

or waivers should be recorded in the notes of the meeting in which they were discussed and included in the student's file.

For enrolled students the limit is 6 years to complete all requirements, with the possibility of extensions approved by the Graduate School for an additional 4 years.

Coursework

For a M.S. degree, the Graduate School has the following minimum course requirements:

1. 30 total semester hours of graduate course work, with a GPA of at least 3.0. Courses that count toward fulfillment of this requirement are those with numbers from 500 to 799, and all 400-level courses with a G suffix that are outside the student's major (thus PPA 400G does not count for this requirement).
2. 16 hours of graduate course work in regular courses. PPA 768 , PPA 784 and PPA 794 do not count for fulfillment of this requirement
3. 12 hours of graduate course work in the student's major area (PPA).
4. 12 hours in 600 or 700 level courses.

Thesis

A Master's thesis must represent an original scholarly contribution by the student. This should not discourage collaboration by students in larger, multi-authored projects, but collaborative research must be undertaken very carefully to ensure that the student's contribution represents a complete, self-contained piece of work that can easily be considered an independent accomplishment. It is the responsibility of the student, the Major Professor, and the Advisory Committee to ensure that this is the case. Basic Course Requirements: All students are strongly encouraged to take PPA 400G (Principles of Plant Pathology), even if they have had a similar course previously. This course provides a common basis for subsequent required courses in the department and will allow international students to become conversant with domestic terminology and perspective in the discipline. Required courses for both the M.S. and Ph.D. are PPA 500 PHYSIOLOGY OF PLANT HEALTH AND DISEASE, PPA 600 CRITICAL METHODS IN PLANT-MICROBE INTERACTIONS, PPA 640 IDENTIFICATION OF PLANT DISEASES, PPA 641 PLANT DISEASE, POPULATION BIOLOGY, AND BIOTECHNOLOGY, and PPA 770 PLANT PATHOLOGY SEMINAR . Individual Course Requirements: Elective courses will be determined by the student together with the Major Professor and Advisory Committee, taking into account the student's background, research topic, and area of specialization.

Plan B

During the first semester, the student will be assigned an advisor selected from the faculty in PPA with interests consistent with those of the student. Working with the faculty advisor, the student will complete a Program of Study having the depth and breadth to satisfy the requirements of the degree: The Program of Study should have, (1) an emphasis in a major area of plant pathology, and (2) a breadth of study in other areas of plant pathology such as biotechnology, molecular and cytological studies. During the student's first term of enrollment, the Program of Study must be submitted to the major professor for approval. By the beginning of his or her last semester, the student working with the faculty advisor, should submit faculty names to the DGS for final approval to form an advisory committee who will administer the exit exam. The

DGS must approval all advisory committee members. This three-person committee is chosen from members of the graduate faculty in PPA who have agreed to serve. This committee will continue to advise the student and will administer the exit exam before the degree is awarded. Non-thesis (Plan B) Master's students in PPA must fulfill the general requirements as outlined by the Graduate School. Thirty (30) credit hours are required for the degree and students must pass a written exit exam in the last semester. The coursework requirements follow those set out by the Graduate School.

At least 20 credit hours must be graded graduate level courses (courses other than research or residency courses and that have a set meeting time), and at least 15 hours must be at the 600-700 level. Students may take courses numbered as 4xxG and 5xx in other departments with approval of the DGS. For the in-depth requirement of the degree, students are required to take a minimum of 20 credits in 500 or above level courses in PPA or other related programs such as IPSS, ENTO, etc. Of these, one credit hour must be taken as graduate seminar in PPA 770 or a relevant offering in another department with approval of the DGS. The exit exam will be at the end of the coursework, administered by the three-person committee to ensure the student is sufficiently familiar with scholarship in her/his chosen area of specialty,

Typically, the Department of Plant Pathology will not offer non-thesis M.S. students an assistantship. Students are expected to pay their tuition through other means. There are opportunities on a term by term basis for Plan B students to assist teaching PPA lab courses. Other sources of financial aid within UK or externally are also possible and the DGS will help to identify opportunities.

Plant Pathology, PhD

Applicants seeking admission to the Ph.D. program in the Department of Plant Pathology as regular students must have an awarded baccalaureate degree. Each Ph.D. student's program is guided by a Major Professor (Dissertation Director) and an Advisory Committee throughout the student's graduate career. The purpose of the Advisory Committee is to give the student continuity of direction and counsel and provide intellectual stimulation throughout residency to completion of the doctorate.

The DGS, or a designee (usually the Major Professor), serves as advisor to beginning graduate students until the Advisory Committee is appointed. Most students enter the program having already committed to a Major Professor; however there is an option for an incoming Ph.D. student who is supported on departmental assistantship or fellowship money to do two or three short lab rotations before choosing a Major Professor. This option is not available to students who are supported on individual grant funds. The Advisory Committee should be appointed before the end of the student's second semester. It **MUST** be appointed no less than one year prior to the Qualifying Examination. The Major Professor and Advisory Committee must be recommended to the Graduate School by the DGS. The DGS will approve the committee only if it meets all Graduate School requirements (below), provides a reasonable breadth and balance of expertise in the major and related disciplines, and presents no obvious conflicts of interest. Once the DGS has approved and recommended the committee, it will be officially appointed by the Graduate Dean. The Dissertation Director and the Advisory Committee specifically set requirements (within the rules and regulations of the Plant Pathology program, Graduate School, and University), which the student must meet in pursuit of the doctorate.

The Ph.D. Advisory Committee has a core of four members. This core consists of the Major Professor (Dissertation Director) as chair, two other faculty members from Plant Pathology, and at least one representative from outside the Plant Pathology Department. At least one representative must be from a minor area(s), different from the student's major research focus. All members of the core must be members of the Graduate Faculty of the University of Kentucky, and at least three (including the chair or a co-chair) must possess Full Graduate Faculty status. Additional faculty members can serve as members of the Advisory Committee. The core of the Advisory Committee must be kept at its full complement throughout the graduate career of the individual student. Thus, in the event of an unforeseen vacancy on the committee, an appropriate replacement must be made prior to any subsequent committee decisions. The DGS must recommend any replacements or changes to an Advisory Committee to the Graduate School. All decisions

of the Advisory Committee are by majority vote of its Graduate Faculty members. Advisory Committee decisions are reported promptly to the DGS, who then transmits them to the Dean of the Graduate School.

In addition to advising and program planning, the Advisory Committee also administers the Qualifying Examination, supervises the preparation of the dissertation and, along with the Outside Examiner (selected by the Graduate School), administers the Final Examination. Regular committee meetings are essential both before and after the Qualifying Exam. Each student must meet with her or his Advisory Committee at least once a year to present a written and oral progress report. At a meeting prior to the submission of the thesis or dissertation to the Advisory Committee, agreement should be reached on the extent of additional research to be conducted for the completion of the thesis or dissertation. It is the responsibility of the student to schedule all necessary meetings with his or her Advisory Committee. A record of each meeting that includes the written progress report, signed by the student and the Major Professor, will be provided to the DGS by the Major Professor within two weeks of the meeting, and a copy will be placed in the student's file.

Admission Requirements

The Graduate School's requirements for admission are likewise the minimum requirements for acceptance into the Ph.D. program of the Department of Plant Pathology. However, additional materials are required for application to the Plant Pathology Ph.D. program. Each applicant must arrange for three letters of recommendation to be sent, and must also provide a curriculum vitae and a written statement identifying the applicant's reasons for desiring to undertake studies in this department, to the Plant Pathology DGS. These materials, and those submitted to the Graduate School, are considered on a case-by-case basis by the department's Academic Program Committee, which then makes a recommendation on admission. Admission to a graduate program in Plant Pathology does not guarantee financial assistance to the student. Applicants who are admitted will also be informed of any financial offer in a contract that they must sign in order to be admitted to the Graduate School.

Degree Requirements

Departmental Requirements

All graduate students pursuing a Ph.D. degree in the Plant Pathology program ideally should have, or should obtain, a background in the following areas: mathematics through differential and integral calculus; physics; chemistry, including analytical, organic, and biochemistry; and the equivalent of introductory courses in botany, plant physiology, genetics, molecular biology, statistics and microbiology. The Academic Program Committee will inform the Major Professor and the student, in writing, of any relevant course deficiencies at the time of admission to the program. Deficiencies should be corrected early in the graduate program either by formal coursework or, with the approval of the Advisory Committee, by independent study. In some cases, the Advisory Committee may decide to waive certain of these requirements, depending on the student's background, goals, and interests. Agreements regarding remedial coursework, independent study, or waivers should be recorded in the notes of the meeting in which they were discussed, and included in the student's file.

Basic Course Requirements

All students are strongly encouraged to take PPA 400G PRINCIPLES OF PLANT PATHOLOGY, even if they have had a similar course previously. This course provides a common basis for subsequent required courses in the department, and will allow international students to become conversant with domestic terminology and perspective in the discipline. Required courses for the Ph.D. are PPA 500 PHYSIOLOGY OF PLANT HEALTH AND DISEASE, PPA 600 CRITICAL METHODS IN PLANT-MICROBE INTERACTIONS, PPA 640 IDENTIFICATION OF PLANT DISEASES, PPA 641 PLANT DISEASE, POPULATION BIOLOGY, AND BIOTECHNOLOGY, and PPA 770 PLANT PATHOLOGY SEMINAR. Ph.D. students are required to complete all of the above courses, and also to take at least two of the following courses: PPA 670 PLANT BACTERIOLOGY, PPA 671 ADVANCED PLANT VIROLOGY, PPA 650 FUNGAL BIOLOGY, and PPA 673 ADVANCED PLANT DISEASE RESISTANCE. The Advisory Committee may decide to waive one or more of these course requirements if the student has already taken equivalent coursework at another institution. A record of this decision should be placed in the student's file.

Individual Course Requirements

Elective courses will be determined by the student together with the Major Professor and Advisory Committee, taking into account the student's background, research topic, and area of specialization.

Political Science, MA

The M.A. degree may be earned under either of two plans: Plan A requires at least 30 hours, with 6 hours coming from 768 for the thesis; Plan B requires at least 30 hours of course work, passing (written and orals) in two fields of political science with a standing of a 3.0 GPA or higher, and satisfaction of the language or alternative skill requirement.

Under either plan, the student must take at least two-thirds of the required semester hours in political science, and at least half of the required hours must be in courses at the 600 or 700 level. All students pursuing the M.A. degree must take PS 671 (Strategies of Inquiry).

Admission Requirements

Candidates for admission to the graduate program in political science must apply using the Graduate College online application system. Required information includes (1) a copy of transcripts and GRE scores; (2) a one- to three-page Statement of Purpose explaining why the student wishes to pursue a Ph.D. degree; (3) three letters of recommendation from persons familiar with the applicant's academic performance; (4) a sample of writing on a topic relevant to political science; (5) a resume or curriculum vitae, and (6) TOEFL scores if the applicant's first language is not English. Applications will only be considered for the fall semester.

Applicants will be evaluated on the basis of the Department's judgment of the likelihood of their success in the program as compared with other applicants and considering the limited number of applicants accepted to the program. In evaluating candidates, the Department will consider the totality of their records, including grades, test scores, letters of recommendation, writing samples, and other relevant information. The department usually only accepts applicants to the Ph.D. program. Students who do not have political science undergraduate majors are welcome in this program.

Degree Requirements

30 credit hours

Required courses:

- Plan A: PS 671 and 6 credits of PS 768
- Plan B: PS 671

At least two-thirds of the semester hours in political science (excluding PS 768 hours)

At least half of the required hours must be in courses at the 600 or 700 level (excluding PS 768 hours)

Political Science, PhD

The Ph.D. program is divided into a general phase and a specialized phase. Entering students spend their first year in the general phase, which includes proseminars in methodology and in the major fields of political science. Students who have previously taken graduate work may be exempt from some of these proseminars. At the end of the first year of graduate work, the student is evaluated by a departmental committee which determines whether the general phase has been satisfactorily completed. During the specialized phase of the graduate program, the student's work is based on a program of study prepared with their Advisory Committee. The student takes advanced work in at least two substantive fields in political science, a major and a minor field. Possible major fields include: American politics, Comparative politics, and International Relations. The possible minor fields are: American, Comparative, International Relations, Institutions, Behavior, Policy, Methods (the major and minor field cannot be the same).

The student completes qualifying exams evaluated by faculty field committees that consist of written and oral examinations in each of the two substantive fields specified in the student's program prior to defending the prospectus for the dissertation. The qualifying examination in political science consists of the prospectus defense given by the Advisory Committee. The student then writes a dissertation and defends it in a final oral examination. Candidates for the Ph.D. in political science must demonstrate proficiency in a research skill. The required research skill will consist of additional quantitative skills or proficiency in a foreign language that is directly pertinent to the student's research interests. Additional details about requirements may be secured from the Department of Political Science.

Admission Requirements

Candidates for admission to the graduate program in political science must apply using the Graduate College online application system. Required information includes (1) a copy of transcripts and GRE scores; (2) a one- to three-page Statement of Purpose explaining why the student wishes to pursue a Ph.D. degree; (3) three letters of recommendation from persons familiar with the applicant's academic performance; (4) a sample of writing on a topic relevant to political science; (5) a resume or curriculum vitae, and (6) TOEFL scores if the applicant's first language is not English. Applications will only be considered for the fall semester.

Applicants will be evaluated on the basis of the Department's judgment of the likelihood of their success in the program as compared with other applicants and considering the limited number of applicants accepted to the program. In evaluating candidates, the Department will consider the totality of their records, including grades, test scores, letters of recommendation, writing samples, and other relevant information. The

department usually only accepts applicants to the Ph.D. program. Students who do not have political science undergraduate majors are welcome in this program.

Degree Requirements

Core course requirements

- PS 572 INTRODUCTION TO QUANTITATIVE POLITICAL METHODOLOGY
- PS 671 STRATEGIES OF INQUIRY IN POLITICAL SCIENCE
- PS 672 INTRODUCTION TO TECHNIQUES OF POLITICAL RESEARCH
- 3 of the following field seminars
 - PS 620 COMPARATIVE POLITICS: THEORY AND METHOD
 - PS 674 PROSEMINAR IN THEORIES OF INTERNATIONAL POLITICS
 - PS 680 PROSEMINAR IN POLITICAL INSTITUTIONS AND PROCESS
 - PS 681 AMERICAN POLITICAL BEHAVIOR
- 3 additional courses in the major field
- 2 additional courses in the minor field

Required Courses related to the dissertation

- PS 796 DIRECTED RESEARCH IN POLITICAL SCIENCE
- PS 767 DISSERTATION RESIDENCY CREDIT

Ph.D. students must demonstrate proficiency in a research skill. The required research skill will consist of additional quantitative skills (usually an additional class) or proficiency in a foreign language that is directly pertinent to the student's research interests.

Population Health Certificate

The Graduate Certificate in Population Health packages the core courses of the Master of Public Health (MPH) degree into a concentrated learning experience with four (4) classes for a total of 12 credit hours. Now available 100% online, this certificate program provides a valuable credential for those seeking to join the public health workforce or expand current knowledge and skills. It's also the perfect introduction to further study in Public Health, as all credits can be applied to the 42-hour MPH program. Currently enrolled graduate students or those applying to a graduate program and post-baccalaureate graduate students may apply to the Graduate Certificate in Population Health.

Positive Youth Development Certificate

The graduate certificate in Positive Youth Development (PYD) is designed to provide students with a background in PYD frameworks and how these can be used to create intentional learning experiences in non-formal educational situations. This 12 credit-hour certificate includes 9 hours of required courses and 3 hours in an elective selected by the student. Completion of this program provides basic competency in the science of PYD at the graduate level along with documentation of their abilities. The certificate is accessible to participants from a wide range of disciplines and backgrounds and is available fully online. The certificate will provide students with the knowledge base they need to demonstrate an understanding and commitment to PYD principles and their intentional inclusion in non-formal learning experiences.

Power and Energy Certificate

The purpose of the proposed graduate certificate in Power and Energy is to provide students with state of the art knowledge in power and energy areas and produce well trained graduates in Power and Energy areas. It is anticipated that there will be a substantial shortage of power and energy professionals in the national labor force in the near future. To help train more power and energy engineers, the department of energy (DOE) issued a call for proposals on power and energy workforce training in December 2009. The college of engineering submitted a proposal and was awarded a grant to create a Power and Energy Institute of Kentucky (PEIK) to train the next generation of power and energy professionals. As part of the proposal, we have proposed to offer a graduate certificate in power and energy. In close collaboration with industry, the institute will combine existing UK College of Engineering power engineering courses with newly created courses to provide students with an attractive, clearly-marked pathway into the power engineering workforce.

Power Systems Certificate

The online Graduate Certificate in Power Systems is designed to provide students with the core knowledge and latest advancements in power systems analysis, modeling, operation, control, optimization, and integration of renewable energies, and produce well trained graduates in this specialty. Students will learn the theory in various aspects of power systems and master the tools and techniques for planning and operating power systems and solving real-world problems.

The credits earned through this certificate will count towards the MS or PhD degree in electrical engineering if the students decide to continue their graduate studies at UK.

Professional and Technical Writing Certificate

The Graduate Certificate in Professional and Technical Writing provides immediate workplace skills and knowledge in organizational writing, manual writing, policy writing, technical writing, grant writing, and technical legal writing. It is designed for working professionals who are interested in continuing their education in professional and technical writing. All courses are online, and the certificate can be completed in a flexible and timely manner.

Psychology - Clinical Psychology, MA

Students earn a MA/MS degree as part of their milestone towards earning their doctoral degree in the Clinical Psychology PhD program. The MA/MS degree in Clinical Psychology is not intended to be a stand-alone or terminal degree program. Students seeking only a MA or MS degree are not admitted to the program.

The Ph.D. program in Clinical provides academic courses, practica, and internships which permit students to combine their teaching and research activities with a clinical career in the mental health field. Special areas of expertise among clinical faculty include psychological assessment, child clinical psychology, health psychology, neuropsychology, personality, psychopathology and diagnosis, psychotherapy, research methodologies, and substance abuse. Clinical training is facilitated by early placement of students at a variety of sites including medical centers, a federal corrections facility, community mental health centers, state and private psychiatric hospitals, and the department's own psychological clinic. Our doctoral program is accredited by the American Psychological Association and by the Psychological Clinical Science Accreditation System.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Health Psychology Concentration
- Neuropsychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 30

Core requirements

- See requirements for Clinical Psychology PhD program

General information on electives

- Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Psychology - Clinical Psychology, MS

Students earn a MA/MS degree as part of their milestone towards earning their doctoral degree in the Clinical Psychology PhD program. The MA/MS degree in Clinical Psychology is not intended to be a stand-

alone or terminal degree program. Students seeking only a MA or MS degree are not admitted to the program.

The Ph.D. program in Clinical provides academic courses, practica, and internships which permit students to combine their teaching and research activities with a clinical career in the mental health field. Special areas of expertise among clinical faculty include psychological assessment, child clinical psychology, health psychology, neuropsychology, personality, psychopathology and diagnosis, psychotherapy, research methodologies, and substance abuse. Clinical training is facilitated by early placement of students at a variety of sites including medical centers, a federal corrections facility, community mental health centers, state and private psychiatric hospitals, and the department's own psychological clinic. Our doctoral program is accredited by the American Psychological Association and by the Psychological Clinical Science Accreditation System.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Health Psychology Concentration
- Neuropsychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 30

Core requirements

- See requirements for Clinical Psychology PhD program

General information on electives

- Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Psychology - Clinical Psychology, PhD

The department offers the Ph.D. degree in psychology in two programs: clinical psychology and experimental psychology, the latter subdivided into cognitive neuroscience, and developmental, social, and health psychology. The major goal of the doctoral programs in psychology is to prepare the student for a career in research in both academic and non-academic settings and in teaching.

The area of specialization in clinical psychology provides academic courses, practica, and internships which permit students to combine their teaching and research activities with a clinical career in the mental health field. Special areas of expertise among clinical faculty include psychological assessment, child clinical psychology, health psychology, neuropsychology, personality, psychopathology and diagnosis, psychotherapy, research methodologies, and substance abuse. Clinical training is facilitated by early placement of students at a variety of sites including medical centers, a federal corrections facility, community mental health centers, state and private psychiatric hospitals, and the department's own psychological clinic. Our doctoral program is accredited by the American Psychological Association and by the Psychological Clinical Science Accreditation System.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Health Psychology Concentration
- Neuropsychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 36 hours of pre-qualifying residency required

Core requirements

The required courses for clinical students are:

- Introduction to Clinical Psychology (PSY 629)
- Psychological Assessment and Practicum (PSY 630 PSY 631 PSY 632 PSY 633)
- Systems of Psychotherapy (PSY 636)
- Psychopathology (PSY 603)
- Psychological Statistics (PSY 610 & PSY 611)
- Research Design (PSY 616)
- History and Systems (PSY 620)
- Professional Issues in Clinical Psychology (PSY 708)
- Broad Training in Social Psychology (PSY 780) or Social Proseminar
- Broad Training in Cognitive Psychology (PSY 780) or Cognitive Proseminar
- Broad Training in Physiological Psychology (PSY 780) or Physio Proseminar
- Broad Training in Developmental Psychology (PSY 780) or Developmental Proseminar
- Ethics (PSY 710)
- Multicultural Psychology (PSY 710 or, with permission, EDP 616)
- One additional advanced clinical seminar (PSY 710) emphasizing clinical science and integrative topical training (e.g. Dialectical Behavior Therapy; Child Psychopathology; PTSD, Personality)
- Practicum in Psychological Assessment & Intervention (PSY 637 and PSY 639). 2nd through 4th years - you must have a minimum of 3 semesters of advanced group supervision (3 credits per semester). Most students have at least 2 full years of PSY 637 training. The beginning supervision group and the summer groups do not contribute to this requirement. In addition, you must continue to register for one credit of PSY 637 for each semester in which you will have clinical contacts as part of the training program. PSY 639 is required in the summers for students involved in any type of clinical training.
- Practicum in Psychological Assessment & Intervention (SUMMER PSY 639) - 0 credit. You MUST be registered for this during the summer if you have any type of clinical contact (client, assessment, clinical research, or practicum).
- Master's Thesis Research/Research Pre-quals (PSY 790)

- Residency/Dissertation Credits (PSY 767)
- Internship (PSY 708)

General information on electives

- Most students will complete elective courses in addition to those listed above. Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Psychology - Experimental Psychology, MA

Students earn a MA/MS degree as part of their milestone towards earning their doctoral degree in the Experimental Psychology PhD program. The MA/MS degree in Experimental Psychology is not intended to be a stand-alone or terminal degree program. Students seeking only a MA or MS degree are not admitted to the program.

The Ph.D. program in experimental psychology is subdivided into cognitive neuroscience, and developmental, social, and health psychology. The Cognitive Neuroscience program is intended for students who wish to study the underlying neural systems of cognitive processes. It provides a strong background in both systems-level neuroscience and cognitive psychology and allows students to develop integrative research interests that cross domains. Research includes a range of topics and methodologies aimed at understanding mechanisms of behavior in laboratory animals and human subjects. Drug use and addictive behaviors are a key focus. Levels of analysis include cellular function, animal behavior, and human substance users. Methodologies include electrochemical measurements, chemogenetics, neuronal cell culture, psychopharmacology, analytical chemistry, quantitative modeling of cognitive functions and decision-making, and fMRI.

In the Developmental, Social, Health program, students typically receive primary conceptual and methodological training in Developmental Psychology, Social Psychology, OR Health Psychology (each are "tracks" within our program). This training will reflect the expertise of your advisor (and lab) in their respective subfield (e.g., Social Psychology) and will prepare you for the academic job market in this subfield. As some faculty in the Developmental, Social, and Health program are truly "hybrid" psychologists (equivalent expertise in Social and Developmental Psychology, for example), students may also gear training across subfields by pursuing relevant coursework, research collaborations, teaching experiences, etc.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Cognitive Neuroscience Area
- Developmental, Social, & Health Area
- Health Psychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 30

Core requirements

- See requirements for Experimental Psychology PhD program

General information on electives

- Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Psychology - Experimental Psychology, MS

Students earn a MA/MS degree as part of their milestone towards earning their doctoral degree in the Experimental Psychology PhD program. The MA/MS degree in Experimental Psychology is not intended to be a stand-alone or terminal degree program. Students seeking only a MA or MS degree are not admitted to the program.

The Ph.D. program in experimental psychology is subdivided into cognitive neuroscience, and developmental, social, and health psychology. The Cognitive Neuroscience program is intended for students who wish to study the underlying neural systems of cognitive processes. It provides a strong background in both systems-level neuroscience and cognitive psychology and allows students to develop integrative research interests that cross domains. Research includes a range of topics and methodologies aimed at understanding mechanisms of behavior in laboratory animals and human subjects. Drug use and addictive behaviors are a key focus. Levels of analysis include cellular function, animal behavior, and human substance users. Methodologies include electrochemical measurements, chemogenetics, neuronal cell

culture, psychopharmacology, analytical chemistry, quantitative modeling of cognitive functions and decision-making, and fMRI. In the Developmental, Social, Health program, students typically receive primary conceptual and methodological training in Developmental Psychology, Social Psychology, OR Health Psychology (each are "tracks" within our program). This training will reflect the expertise of your advisor (and lab) in their respective subfield (e.g., Social Psychology) and will prepare you for the academic job market in this subfield. As some faculty in the Developmental, Social, and Health program are truly "hybrid" psychologists (equivalent expertise in Social and Developmental Psychology, for example), students may also gear training across subfields by pursuing relevant coursework, research collaborations, teaching experiences, etc.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Cognitive Neuroscience Area
- Developmental, Social, & Health Area
- Health Psychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 30

Core requirements

- See requirements for Experimental Psychology PhD program

General information on electives

- Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Psychology - Experimental Psychology, PhD

The department offers the Ph.D. degree in psychology in two programs: clinical psychology and experimental psychology, the latter subdivided into cognitive neuroscience, and developmental, social, and health psychology. The major goal of the doctoral programs in psychology is to prepare the student for a career in research in both academic and non-academic settings and in teaching.

The Cognitive Neuroscience program is intended for students who wish to study the underlying neural systems of cognitive processes. It provides a strong background in both systems-level neuroscience and cognitive psychology and allows students to develop integrative research interests that cross domains. Research includes a range of topics and methodologies aimed at understanding mechanisms of behavior in laboratory animals and human subjects. Drug use and addictive behaviors are a key focus. Levels of analysis include cellular function, animal behavior, and human substance users. Methodologies include electrochemical measurements, chemogenetics, neuronal cell culture, psychopharmacology, analytical chemistry, quantitative modeling of cognitive functions and decision-making, and fMRI.

In the Developmental, Social, Health program, students typically receive primary conceptual and methodological training in Developmental Psychology, Social Psychology, OR Health Psychology (each are "tracks" within our program). This training will reflect the expertise of your advisor (and lab) in their respective subfield (e.g., Social Psychology) and will prepare you for the academic job market in this subfield. As some faculty in the Developmental, Social, and Health program are truly "hybrid" psychologists (equivalent expertise in Social and Developmental Psychology, for example), students may also gear training across subfields by pursuing relevant coursework, research collaborations, teaching experiences, etc.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the 2 advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Cognitive Neuroscience Area
- Developmental, Social, & Health Area
- Health Psychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 36 hours of pre-qualifying residency required

Core requirements

- **Cognitive Neuroscience:**
 - Statistics sequence: PSY 610 - Experimental design PSY 611 - Correlational design
 - PSY 780 - Problems in Psychology: Directed Readings in Cognitive Neuroscience (section to be determined each semester)
 - Any three proseminars selected from the following areas: * note that another course (typically a 700-level course) may be substituted for one or more of these proseminars, pending approval of the student's supervisory committee:
 - Learning
 - Cognitive processes
 - Developmental Psychology
 - Sensation & Perception
 - Physiological Psychology
 - Four electives (a minimum of one of these must be outside of the Psychology Department)
 - Additional course work as recommended by the advisory committee
 - Residency/Dissertation Credits (PSY 767)

- **Developmental, Social, & Health:**
 - Statistics sequence: PSY 610 - Experimental design PSY 611 - Correlational design
 - Any three proseminars offered by the Department of Psychology, with the general expectation that Developmental (PSY 625), Social (PSY 624), and/or Health Psychology proseminars will be completed.
 - Additional coursework or experience - typically advanced topical or methods seminars - as recommended by advisory committees, primary advisor, and/or program coordinator.
 - Residency/Dissertation Credits (PSY 767)

General information on electives

- Most students will complete elective courses in addition to those listed above. Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

- <https://psychology.as.uky.edu/psych-application-info>

Public Administration, MPA

The Master in Public Administration (MPA) program offers a professional degree that prepares students for careers of leadership in public service as analysts and managers in the public, not-for-profit, and private sectors. Students enter the program with diverse academic backgrounds.

The MPA is available residentially (on-campus) and in distance learning (online).

Two dual degree programs are offered:

- a dual JD/MPA program and
- a dual Pharm.D./MPA degree.
- For more information about those programs, see Graduate Admission.

The MPA is also partnered with the following programs for the University Scholars Program:

- BA in Political Science
- Natural Resources and Environmental Science (NRES)
- BA in Agricultural Economics
- Undergraduates at Georgetown College

Admission Requirements

Students applying are expected to have taken MA 109 (College Algebra) or equivalent and ECO 201 (Introduction to microeconomics) or equivalent.

Applicants must be prepared to submit:

- A one-to-three-page statement explaining why you wish to pursue an MPA degree.
- A resume or CV.
- Transcripts from each post-secondary institution that you have attended. They can be unofficial for admission purposes, but official transcripts must be submitted upon enrollment.
 - Minimum of 2.75 GPA on all undergraduate coursework.
 - Minimum of 3.0 GPA on all previous graduate level coursework.
- The e-mail addresses of at least two individuals who have agreed to write a recommendation letter on your behalf. Ideally, at least one letter is from an academic reference.
- GRE or GMAT scores (optional). They can be unofficial for admission purposes, but official scores must be submitted upon enrollment.
- International students will also need English Language test scores.
 - Minimum of 79 on the internet based TOEFL, or
 - Minimum of 6.5 on the IELTS

Degree Requirements

Completion of a minimum of 40 credit hours of graduate work is required:

- An administrative core of 25 credit hours covering the areas of public policy formulation and analysis, public policy economics, organization and management, budgeting, finance, and analytical methods.
 - PA 602 STRATEGIC PLANNING AND ORGANIZATIONAL CHANGE IN THE PUBLIC AND NON- PROFIT SECTORS (3)
 - PA 621 QUANITITATIVE METHODS OF RESEARCH (3)
 - PA 622 PUBLIC PROGRAM EVALUATION (3)
 - PA 623 DECISION ANALYSIS AND SUPPORT SYSTEMS (3)
 - PA 631 PUBLIC FINANCIAL MANAGEMENT (3)
 - PA 642 PUBLIC AND NONPROFIT ORGANIZATION THEORY AND BEHAVIOR (3)
 - PA 651 THE POLICY PROCESS (3)
 - PA 652 PUBLIC POLICY ECONOMICS (3)
 - PA 691 ETHICS AND PUBLIC POLICY (1)
- An area of concentration of 9 credit hours in a stated area of specialization (public financial management, policy analysis, local economic development; non-profit management, environmental management, education policy, health policy, gerontology, international public policy, or transportation systems management) or in an individually designed concentration.
- Capstone Course and Capstone Project PA 681 CAPSTONE IN PUBLIC ADMINISTRATION (3). All students must take the 3-hour capstone class and successfully complete and defend a capstone project developed in that class. The purpose of the course and the project is to integrate the learning experience of the MPA program and apply knowledge and skills acquired in the program to a policy issue or management problem. Oral presentation of the project before a faculty committee serves as the final masters' exam.
- Internship: PA 711 INTERNSHIP IN PUBLIC ADMINISTRATION(3). An administrative internship at an appropriate agency for 400 hours. Students with a significant professional experience may substitute an independent study policy paper, a comparable special project, or an additional graduate course.

<https://martin.uky.edu/master-public-administration>

Public Administration, MPP

The MPP program offers a professional degree that prepares students for careers as professional policy analysts in government and non-profit organizations. Students enter the program with diverse academic backgrounds, but should have taken statistics, calculus, and intermediate microeconomics.

Admission Requirements

- A one-to-three page statement explaining why you wish to pursue an MPA degree.
- A resume or CV.
- Transcripts from each post-secondary institution that you have attended. They can be unofficial for admission purposes, but official transcripts must be submitted upon enrollment.
 - Minimum of 2.75 GPA on all undergraduate coursework.
 - Minimum of 3.0 GPA on all previous graduate level coursework.
- The e-mail addresses of at least two individuals who have agreed to write a recommendation letter on your behalf. Ideally, at least one letter is from an academic reference.

- GRE or GMAT scores (required). They can be unofficial for admission purposes, but official scores must be submitted upon enrollment.
- International students will also need English Language test scores.
 - Minimum of 79 on the internet based TOEFL, or
 - Minimum of 6.5 on the IELTS
- Through the University Scholars Program, students in the BA in Public Policy program can begin MPP coursework during their senior year of the undergraduate program. Admission requirements vary for this program - <https://martin.uky.edu/university-scholars-program>.

Degree Requirements

Completion of a minimum of 37 credit hours of graduate work is required.

- An administrative Core of 25 credit hours covering each of the following areas: statistics, public policy formulation and analysis, public policy economics, organization and management, budgeting, finance, and analytical methods.
 - PA 622 PUBLIC PROGRAM EVALUATION (3)
 - PA 624 GOVERNMENT INFORMATION SYSTEMS (3)
 - PA 631 PUBLIC FINANCIAL MANAGEMENT (3)
 - PA 642 PUBLIC AND NONPROFIT ORGANIZATION THEORY AND BEHAVIOR (3)
 - PA 651 THE POLICY PROCESS (3)
 - PA 652 PUBLIC POLICY ECONOMICS (3)
 - PA 690 PUBLIC POLICY ANALYSIS OVERVIEW (3)
 - PA 692 ECONOMETRICS FOR POLICY ANALYSTS (3)
 - PA 795 SPECIAL TOPICS IN PUBLIC ADMINISTRATION (1)
- An additional 3 credit hours of a guided elective in a policy field:
 - PPL 583 TAX POLICY (3), OR
 - PPL 584 ENVIRONMENTAL POLICY (3), OR
 - PPL 575 EDUCATION FINANCE AND POLICY (3)
- An area of concentration of 3 credit hours in an area of specialization. Must be approved by the Director of Graduate Studies-DGS.
- Capstone Course and Capstone Project PA 681 CAPSTONE IN PUBLIC ADMINISTRATION (3). All students must take the 3-hour capstone class and successfully complete and defend a capstone project developed in that class. The purpose of the course and the project is to integrate the learning experience of the MPP program and apply knowledge and skills acquired in the program to a policy issue or management problem. Oral presentation of the project before a faculty committee serves as the final masters' exam.
- Internship: PA 711 INTERNSHIP IN PUBLIC ADMINISTRATION (3). An administrative internship at an appropriate agency for 400 hours. Students with a significant professional experience may substitute an independent study policy paper, a comparable special project, or an additional graduate course.

<https://martin.uky.edu/master-public-policy>

Public Financial Management Certificate

The Martin School of Public Policy and Administration offers a fully online Graduate Certificate program in Public Financial Management. This program is attractive to students desiring an introduction of class offerings in public financial management. The online 12 credit hour Graduate Certificate program in Public Financial Management fills an additional niche as an alternative for those who are not interested in seeking a full master's program in that area. Students may apply the coursework towards the corresponding Master's in Public Financial Management upon completing the graduate certificate. The graduate certificate includes 4 mandatory courses (PA 631, PA 632, PA 625, PA 627) focused on public financial management, public funds management, and governmental accounting and auditing. The courses are offered annually, allowing students to complete the certificate in two semesters. The Graduate Certificate in Public Financial Management is designed to meet the current and expanding national demand for well-trained financial managers for public and non-profit organizations. The curriculum can also be a desirable means of professional development training for employees in the public sector. The Graduate Certificate in Public Financial Management is approved by the Kentucky Department of Education to qualify for mandatory continuing education credits for school finance/budget officers. For more information about this program visit <https://martin.uky.edu/>.

Public Financial Management, MPFM

The Master of Public Financial Management (MPFM) program offers a professional graduate degree that prepares students for careers as professionals in public and non-profit sectors. The program is offered 100% online in an asynchronous format. The MPFM is designed for students with interests in public financial management, public sector accounting and auditing and other unique aspects of public finance. Students enter the program with diverse academic backgrounds and career goals. Courses are offered in 8-week and 4-week sessions. Students enroll in one course at a time and may complete the 36-credit program in two years. The course format and schedule allows working students and those juggling other responsibilities to complete the MPFM in a timely manner.

Admission Requirements

The MPFM application requires 1) a one to three page personal statement explaining interest in the MPFM degree, 2) resume or CV, 3) official transcripts from each post-secondary institution attended, and 4) two letters of recommendation. Applicants are encouraged to have had either an undergraduate course or work experience in accounting prior to admission however it is not a requirement for admission. As an online program, admission includes in-state tuition independent of the student's state of residency. International students also need English Language test scores. Deadlines for the program are the same as the Graduate School admission deadlines. Applications are accepted to the program in the Fall and Spring semesters. Applicants must meet all requirements as defined by the Graduate School including a minimum undergraduate GPA of 2.75. Competitive admission is based on a consideration of the documents listed above including work experience. The final selection of students for admission will be subject to the discretion of the admissions committee of the program.

Degree Requirements

Total credit hours: 36 credit hours

Core Requirements

All students must take the 3-hour capstone class and successfully complete and defend a capstone project developed in that class. The purpose of the course and the project is to integrate the learning experience within the MPFM program and apply knowledge and skills acquired in the program to a policy issue. The presentation of the Capstone project serves as the final Masters exam.

Courses in the MPFM program focus on many aspects of public financial management and are offered in Fall, Spring, and Summer semesters. The following shows the recommended sequence of course offerings by semester. Students may start the MPFM program in either the Fall or Spring semesters however Spring admission requires minor adjustments to the course sequence shown below. Courses are 8-week sessions unless otherwise indicated. Students may on a limited basis with approval of the Director of Graduate Studies substitute a course if necessary due to scheduling conflicts or other reasons. *Note: The first 4 courses listed below comprise a Graduate Certificate Program that may be taken independently of the full MPFM.*

Fall Year 1

- PA 631 PUBLIC FINANCIAL MANAGEMENT: Budgeting/Debt Management
- PA 632 PUBLIC FUNDS MANAGEMENT: Investments/Cash Management

Spring Year 1

- PA 625 GOVERNMENTAL ACCOUNTING AND FINANCIAL CONDITION ANALYSIS
- PA 627 GOVERNMENTAL AUDIT

Summer Year 1

- PA 626 APPLICATIONS IN GOVERNMENTAL ACCOUNTING AND AUDIT
- PA 696 LEGAL ISSUES IN PUBLIC FINANCIAL MANAGEMENT (4-week)

Fall Year 2

- PA 633 MUNICIPAL SECURITIES
- PA 695 DATA AND REVENUE FORECASTING

Spring Year 2

- PA 683 TAX POLICY
- PA 697 PUBLIC FINANCIAL POLICY ANALYSIS

Summer Year 2

- PA 694 PUBLIC PENSIONS AND INSURANCE (4-week)

- PA 681 CAPSTONE IN PUBLIC ADMINISTRATION (12-week)

For more information, please visit the University of Kentucky Martin School website.

Public Health, MPH

A defining characteristic of the area of public health is its focus on population groups rather than individuals. Public health professionals are concerned with the health of communities, relying heavily on collaboration with local, state, and national entities to improve the health status of their targeted populations. With the current interest in health care reform, bioterrorism and preparedness, concerns over managed care, and other factors impacting the nation's health care system, the need for highly trained public health professionals is increasing. The College of Public Health offers the Master of Public Health degree. The MPH is an applied professional/graduate degree designed for highly motivated students who have either a previously earned professional degree or a baccalaureate degree and substantial interest in public health. Unique sequencing of courses, community-based program activities, and field/laboratory research provide students with multiple opportunities to define their course of study in the four areas of concentration, , Epidemiology, Environmental/Occupational Health, Health Behavior, or Health Systems & Policy Analytics. The MPH. degree is designed to prepare graduates for entry and advancement in public health careers in public, non-profit and proprietary health care organizations.

Professionals with the MPH. hold important roles in a variety of public and private settings, e.g., local, state, and national health departments, health care facilities, military service, social service agencies, private industry, universities, and community-centered health education facilities. In these positions, they can be involved directly with the development, implementation and assessment of efforts to improve the health of the public and prevention of disease. The curriculum is designed to provide skills and knowledge upon which to build or enhance a career in public health. Unique sequencing of courses, community-based program activities, and field/laboratory research provide students with multiple opportunities to define their public health specialty and provide a broad overview of the disciplines of public health.

The Master of Public Health degree requires a minimum of 42 credit hours of study for completion. All students must complete a minimum of 18 semester hours of required core course work and at least 18 hours of specialty work in one of the four areas of concentration. In addition, a three credit-hour field practicum course (CPH 609), and a three credit-hour final integrative Capstone Project (CPH 608) are required. The dual MD/MPH. and PharmD/MPH. degrees are currently available.

Admission Requirements

Admission into the MPH program is competitive, and consideration is given to academic background, a history of service, interest in the field, a personal statement, career plans, and letters of recommendation. Applicants must also have achieved an acceptable score on the Graduate Record Examination (GRE) or the Graduate Management Admission test (GMAT). Applicants must complete a UK Graduate School Application and make a separate application through the Schools of Public Health Application Service (SOPHAS.org), the centralized application process for accredited schools/colleges of public health. Applications will not be reviewed until the SOPHAS application is completed. For additional information concerning the University of Kentucky, College of Public Health and its degrees, call (859) 218-2096, send e-mail to ukcph@uky.edu or go to <http://www.uky.edu/publichealth/>

Degree Requirements

The MPH Program is a total of 42-44 graduate-level credit hours. Students are also required to complete a non-thesis option capstone project.

Each student is required to pursue at least one concentration area from the following: Preventative Medicine and Environmental Health, Epidemiology, Health Behavior and Society, Health Systems and Policy Analytics. See concentration requirements for course requirements.

The program curriculum consists of the following core courses, required courses and concentration courses:

MPH Core Courses (required credit hours) - 24 to 25 Total Required Credit Hours

- CPH 663 INTRODUCTION TO PUBLIC HEALTH PRACTICE AND ADMINISTRATION* (1)
- CPH 643 MEASURING HEALTH BEHAVIOR: QUANTITATIVE & QUALITATIVE APPROACHES (3)
- CPH 650 PUBLIC HEALTH SYSTEMS ADMINISTRATION (3)
- CPH 605 EPIDEMIOLOGY (3)
- CPH 603 INTRODUCTION TO DATA ANALYSIS FOR PUBLIC HEALTH (3)
- CPH 621 UNDERSTANDING AND COMMUNICATING ENVIRONMENTAL HEALTH RISKS (3)
- CPH 672 EVIDENCED-BASED PUBLIC HEALTH PLANNING & PRACTICE (3)
- CPH 609 PUBLIC HEALTH PRACTICUM (3)
- CPH 608 PUBLIC HEALTH CAPSTONE (3)

*CPH 663 is NOT required for students who have a Bachelor of Public Health degree from a CEPH accredited program.

Concentration Requirements (required credit hours) - 8 to 19 Total Required Credit Hours

Each student is required to pursue at least one concentration area. Requirements are listed for each concentration below:

Environmental Health Concentration - 18 Required Credit Hours

- CPH 601 ENVIRONMENTAL HEALTH (3)
- CPH 620 OCCUPATIONAL HEALTH (3)
- CPH 622 TOXIC AGENTS AND THEIR IMPLICATIONS IN PUBLIC HEALTH (3)
- Electives (9 credit hours) - See your advisor for a complete list of electives.

Epidemiology Concentration - 18 Required Credit Hours

- CPH 712 ADVANCED EPIDEMIOLOGY (3)
- CPH 660 DISEASE MAPPING & DATA VISUALIZATION (3)
- CPH 612 INFECTIOUS DISEASE EPIDEMIOLOGY (3)
- CPH 615 CANCER EPIDEMIOLOGY (3) or CPH 711 CHRONIC DISEASE EPIDEMIOLOGY (3)
- Electives (6 credit hours) - See your advisor for a complete list of electives.

Health Behavior and Society Concentration - 19 Required Credit Hours

- CPH 604 FOUNDATIONS OF HEALTH BEHAVIOR I (2)
- CPH 674 FOUNDATIONS OF HEALTH BEHAVIOR II (2)
- CPH 648 ELIMINATING RACIAL & ETHNIC HEALTH DISPARITIES (3)
- CPH 746 RESEARCH METHODS AND PROGRAM EVALUATION FOR HEALTH BEHAVIOR (3)
- Electives (9 credit hours) - See your advisor for a complete list of electives.

Health Systems and Policy Analytics - 18 Required Credit Hours

- CPH 600 HEALTH SERVICES AND SYSTEMS ORGANIZATION (3)
- CPH 785 HEALTH POLICY (3)
- CPH 651 POPULATION HEALTH: MEASUREMENT, MANAGEMENT AND IMPROVEMENT (3)
- CPH 634 ANALYTICS METHODS FOR HEALTHCARE DATA (3)
- Electives (6 credit hours) - See your advisor for a complete list of electives.

Public Policy and Administration, PhD

The curriculum of the Ph.D. program provides knowledge of the principles of organizational behavior, an understanding of the public policy process and policy issues, and an ability to analyze policy and administrative problems through research and analytical methods.

Admission Requirements

Many incoming students will hold a master's degree in public administration or public policy. Other students with master's degrees in such areas as political science, economics, agricultural economics or business administration will be evaluated with respect to their background in public administration. All students are expected to have taken four University of Kentucky courses: PA 652 PUBLIC POLICY ECONOMICS, PA 631 PUBLIC FINANCIAL MANAGEMENT, PA 642 PUBLIC AND NONPROFIT ORGANIZATION THEORY AND BEHAVIOR, and PA 651 THE POLICY PROCESS, or their equivalents from a NASPAA accredited

program or their equivalents. Students who have not fulfilled these class requirements will do so before taking the relevant Ph.D. core classes. All students are also expected to have a strong background in research methodology and will need to take calculus before beginning the Ph.D. classes. Applicants must be prepared to submit:

- A one-to-three-page statement explaining why you wish to pursue a Ph.D. degree.
- A resume or CV.
- Transcripts from each post-secondary institution that you have attended. They can be unofficial for admission purposes, but official transcripts must be submitted upon enrollment.
 - Minimum of 2.75 GPA on all undergraduate coursework, preferably over 3.0 GPA.
 - Minimum of 3.0 GPA on all previous graduate level coursework, preferably over 3.5 GPA.
- The email address of at least three individuals who have agreed to write a recommendation letter on your behalf. Ideally, at least two letters are from academic references.
- A writing sample.
- You will enter your GRE or GMAT scores in the Graduate School application but will also need to submit official scores from ETS.

The Martin School does not have "cut-off" scores when it comes to the GRE (or other accepted admissions exam) and considers all aspects of students' records, including evidence of improving performance during students' academic careers. The final selection of students for admission will be subject to the discretion of the director of Graduate Studies based on the advice of the admissions committee of the Ph.D. program. Competitive admission is based on a consideration of the documents listed above.

Degree Requirements

Students are required to take 42 hours of graduate course work beyond the master's degree or its equivalent.

- The program of study includes 15 credit hours of core courses,
 - PA 731 FISCAL AND BUDGETARY POLICY (3)
 - PA 742 THEORY OF PUBLIC ORGANIZATIONS (3)
 - PA 750 INTRODUCTION TO ECONOMICS FOR PUBLIC POLICY (3)
 - PA 751 PUBLIC POLICY FORMULATION AND IMPLEMENTATION (3)
 - PA 752 THE ECONOMICS OF POLICY ANALYSIS (3)
- 15 credit hours in the area of concentration,
- 3 credit hours of theory related to and supporting the student's area of concentration, and
- 9 credit hours of research methodology courses.
- In addition to course work, students complete two exams and a dissertation.
The dissertation involves research on a public management or public policy issue.
 - PA 767 DISSERTATION RESIDENCY CREDIT (2) (minimum of 2 semesters)

<https://martin.uky.edu/phd>

Radiation and Radiological Sciences, PhD

Medical Physics is a profession that includes clinical, industrial and academic practices. The Radiation and Radiological Sciences PhD program is designed primarily for students who desire to enter a clinical career, but who want to acquire the additional skills and credentials that accompany a PhD. This educational program is provided by the Departments of Radiation Medicine and Radiology, both of which are clinical

departments within the UK Healthcare enterprise, thus providing a unique culture and context to the training. Research areas involve collaborative efforts between students, clinical physicists and physicians, and often possess direct clinical applicability. The collaborative nature of the program structure allows for didactic, clinical and research training in therapeutic and diagnostic medical physics. Additional information is available on our website at <https://radiationmedicine.med.uky.edu/radiation-sciences-graduate-program>.

Admission Requirements

A BS or MS in Physics is desirable, but students possessing related physical science backgrounds are eligible and qualified. At a minimum, candidates must show the equivalence of a minor in physics in all undergraduate work, as defined by the American Board of Radiology and CAMPEP. To meet the Minor in Physics requirement, candidates must have completed the following: 1) Calculus through Ordinary Differential Equations; 2) The Calculus based introductory General Physics sequence with labs (2 semesters); and 3) Three upper division Physics electives (junior level or above). Courses in Human Anatomy, Human Physiology, Computer Science, and Scientific Statistics are preferred but, if missing, may be incorporated into the graduate program at the discretion of the Director of Graduate Studies. An undergraduate GPA of 3.50 is highly desirable. The General GRE exam is required. While there are no absolute minimum scores required, a score on the Verbal section at or above the 60th percentile and a score on the Quantitative section at or above the 80th percentile are desirable.

An interview is required of all applicants being considered for admission. Fluent spoken English skills are required and are assessed during the interview. In addition, observation or job shadowing of a certified clinical Medical Physicist is very important when considering applicants for admission. Three Letters of Recommendation and a personal statement are also required. The deadline for applications is April 30th, however, offers for admission are usually made early in the preceding Spring semester with completion of the class roster by May. Therefore, it is recommended that applications be completed by January 31 to assure full consideration.

Degree Requirements

A minimum of 52 credit hours are required for the PhD degree consisting of 34 core credit hours and 18 elective credit hours. The elective credit hours (18) must include at least 6 hours of graduate level (i.e., 4xxG, 5xx, 6xx or 7xx) didactic coursework covering related topics in science, engineering, or medicine. The intent of this requirement is to encourage interdisciplinary collaboration and to develop rigorous scientific skills. The selection of the specific courses is variable. The remaining 12 elective credit hours may be fulfilled by any combination obtained from the list of "Available PhD Electives" below. These credits must be approved by the student's dissertation advisor. In addition, completion of 48 hours is required for pre-qualifying residency. Post-qualifying residency must be a minimum of 4 credit hours of RAS 767. Students must maintain at least a 3.0 GPA for retention in the program. A student's progress will be reviewed annually by their graduate committee and any deficiencies or concerns identified will be followed up with the student. The qualifying exam will consist of two major components, one written and one oral. Students must pass both to be allowed to progress in the PhD program. The written component will be a problem-based exam consisting of 4 subject areas. These are:

1. General Radiological Physics and Dosimetry
2. General Physics of Medical Imaging
3. General Physics of Radiation Therapy
4. Elective Subject (select one from the following list)

1. Advanced Radiation Therapy Physics
2. Advanced Medical Imaging Physics
3. Other topic approved by the Advisory Committee

The written exam is given over a two non-sequential day period. Day one will cover subject areas 1, 2, and 3 while day two will cover section 4. The written exam will typically be taken in the second year of the program and a score of 50% or greater will be required in order to pass. Students who do not pass on the first attempt will be allowed a second attempt. If the second attempt is unsuccessful then the student will not be allowed to proceed in the PhD program. Such students will, however, be allowed to attempt to complete the degree requirements for an En passant MS degree in Radiation Sciences and be awarded that degree upon successful completion. The qualifying oral exam will be taken after successful completion of the written exam, but typically not to exceed 3 years from the initial date of enrollment. The student must orally defend a proposal for the selected dissertation topic. The proposal defense will be delivered to the student's dissertation advisory committee.

Required Core Courses (34 credit hours)

- RAS 472G/RM 472G INTERACTION OF RADIATION WITH MATTER (3)
- RAS 545/RM 545/PHY 545 RADIATION HAZARDS AND PROTECTION (3)
- RAS 546/RM 546/PHY 546 GENERAL MEDICAL RADIOLOGICAL PHYSICS (3)
- RAS 601/RM 601 ADVANCED RADIATION DOSIMETRY (2)
- RAS 647/RM 647 PHYSICS OF DIAGNOSTIC IMAGING I (3)
- RAS 648/RM 648 PHYSICS OF DIAGNOSTIC IMAGING II (3)
- RAS 649/RM 649 PHYSICS OF RADIATION THERAPY (3)
- RAS 651 ADVANCED LABORATORY IN DIAGNOSTIC IMAGING PHYSICS (2)
- RAS 695/RM 695 RESEARCH IN HEALTH-RELATED RADIATION SCIENCES (4)
- RAS 710 RADIATION SCIENCE SEMINAR (SUBTITLE REQUIRED) (1)
- RAS 711 RESEARCH METHODS IN MEDICAL PHYSICS (1)
- RM 740/BIO 740 MAMMALIAN RADIATION BIOLOGY (2)
- RAS 767 DISSERTATION RESIDENCY CREDIT (4)

Elective Courses (18 credit hours) Partial Listing

- RM 660 GRADUATE PRACTICUM IN RADIATION MEDICINE (1-6)
- RAS 650 PHYSICS OF RADIATION THERAPY II: BRACHYTHERAPY PHYSICS (2)
- RM 842 RADIATION ONCOLOGY (1)
- RM 848 PRACTICUM IN BRACHYTHERAPY PHYSICS (1-3)
- RM 849 PRACTICUM IN EXTERNAL BEAM THERAPY PHYSICS (1-6)

EE 630 DIGITAL SIGNAL PROCESSING (3)

EE 635 IMAGE PROCESSING (3)

BME 540 BIOMEDICAL INSTRUMENTATION (3)

BMI 730 PRINCIPLES OF CLINICAL INFORMATICS (3)

Other Electives may be used with approval of the Dissertation Advisor

Radiation Science, MSRMP

The Radiation Sciences Division in the College of Medicine offers a MS degree in Radiological Medical Physics. The program is accredited by The Commission on Accreditation of Medical Physics Education Programs (CAMPEP). The program covers all aspects of Medical Physics including Radiation Therapy Physics, Diagnostic Medical Imaging, and Nuclear Medicine Physics. However, an emphasis is placed on Radiation Therapy Physics through the Radiation Therapy Physics Practicum. This Practicum covers core components of clinical Therapy Medical Physics including Equipment Quality Assurance, Brachytherapy, Patient Specific Quality Assurance, and External Beam Treatment Planning. Student access to the Radiation Therapy clinic in the Radiation Medicine Department in the UK College of Medicine is extensive and is an important learning experience. Additional information is available on our website at <https://radiationmedicine.med.uky.edu/radiation-sciences-graduate-program>.

Admission Requirements

A BS in Physics is desirable, but at a minimum candidates must show the equivalence of a minor in physics in all undergraduate work, as defined by the American Board of Radiology and CAMPEP. To meet the Minor in Physics requirement, candidates must have completed the following: 1) Calculus through Ordinary Differential Equations; 2) The Calculus based introductory General Physics sequence with labs (2 semesters); and 3) Three upper division Physics electives (junior level or above). Courses in Human Anatomy, Human Physiology, Computer Science, and Scientific Statistics are preferred but, if missing, may be incorporated into the graduate program at the discretion of the Director of Graduate Studies. An undergraduate GPA of 3.25 is highly desirable. The General GRE exam is required. While there are no absolute minimum scores required, a score on the Verbal section at or above the 60th percentile and a score on the Quantitative section at or above the 70th percentile is desirable.

An interview is required of all applicants being considered for admission. Fluent spoken English skills are required and are assessed during the interview. In addition, observation or job shadowing of a certified clinical Medical Physicist is very important when considering applicants for admission. Three Letters of Recommendation and a personal statement are also required. The deadline for applications is April 30th, however, offers for admission are usually made early in the preceding Spring semester with completion of the class roster by May. Therefore, it is recommended that applications be completed by January 31 to assure full consideration.

Degree Requirements

The Master of Science in Radiological Medical Physics is an interdisciplinary, Plan B (non-thesis) program. However, a two credit hour clinical quality improvement research project is required. A minimum of 30 credit hours are required for graduation. Students must maintain a minimum 3.0 GPA for retention in the program and for graduation requirements. A coursework outline is as follows; credit hours shown in parentheses:

Required Courses (27 credit hours)

- RAS 472G/RM 472G INTERACTION OF RADIATION WITH MATTER (3)
- RAS 545/RM 545/PHY 545 RADIATION HAZARDS AND PROTECTION (3)
- RAS 546/ RM 546/PHY 546 GENERAL MEDICAL RADIOLOGICAL PHYSICS (3)
- RAS 601/RM 601 ADVANCED RADIATION DOSIMETRY (2)
- RAS 647/RM 647 PHYSICS OF DIAGNOSTIC IMAGING I (3)
- RAS 648/RM 648 PHYSICS OF DIAGNOSTIC IMAGING II (3)
- RAS 649/RM 649 PHYSICS OF RADIATION THERAPY (3)
- RAS 651 ADVANCED LABORATORY IN DIAGNOSTIC IMAGING PHYSICS (2)
- RAS 695/RM 695 RESEARCH IN HEALTH-RELATED RADIATION SCIENCES (2)
- RAS 710 RADIATION SCIENCE SEMINAR (SUBTITLE REQUIRED) (1)
- RM 740/BIO 740 MAMMALIAN RADIATION BIOLOGY (2)

Elective Courses (3 credit hours) Partial Listing

- RM 660 GRADUATE PRACTICUM IN RADIATION MEDICINE (1-6)
- RAS 650/RM 650 PHYSICS OF RADIATION THERAPY II: BRACHYTHERAPY PHYSICS (2)
- RM 842 RADIATION ONCOLOGY (1)
- RM 848 PRACTICUM IN BRACHYTHERAPY PHYSICS (1-3)
- RM 849 PRACTICUM IN EXTERNAL BEAM THERAPY PHYSICS (1-6)
- EE 630 DIGITAL SIGNAL PROCESSING (3)
- EE 635 IMAGE PROCESSING (3)

Rehabilitation Sciences, PhD

The mission of the Rehabilitation and Health Sciences PhD Program is to fulfill a leadership role in addressing the rehabilitation and health needs of individuals in the Commonwealth of Kentucky and beyond through research, education and service.

The Rehabilitation and Health Sciences PhD program is an interdisciplinary and interinstitutional program led by the University of Kentucky in close cooperation with Eastern Kentucky University, and Western Kentucky University. The educational and research expertise of these universities and faculties creates a program that enables its graduates to provide academic, research, and clinical leadership. The Rehabilitation and Health Sciences PhD Program graduates will receive their Ph.D. from the University of Kentucky.

Students in the program have the unique opportunity to study with faculty from the different health professions offered in the participating institutions, such as athletic training, communication science and disorders, occupational therapy, physical therapy, physician assistants and health services research, and take courses from faculty specialized in these disciplines. Students in other disciplines can also apply and are accepted on an individual basis.

Admission Requirements

Individuals applying for admission must hold at least a professional or post-professional master's degree. Eligibility for licensure or clinical certification in Communication Sciences & Disorders, Athletic Training, Occupational Therapy, Physician Assistant or Physical Therapy is encouraged, but not required for admission into the program. Those with basic science graduate degrees and interests are also welcomed to apply and will be considered equally for admission. Acceptance into the Program is dependent upon identifying and matching your area of research interest with an RHB faculty member willing to serve as your doctoral studies program mentor.

Degree Requirements

44 Total Credit Hours

Required Core Courses:

- RHB 701 REHABILITATION AND HEALTH SCIENCES THEORIES & APPLICATIONS THROUGH THE LIFE SPAN (3 credits)
- RHB 714 CRITICAL APPRAISAL OF RESEARCH IN REHABILITATION AND HEALTH SCIENCES (3 credits)
- RHB 720 RESEARCH IN REHABILITATION AND HEALTH SCIENCES (3 credits)
- RHB 771 RESEARCH SEMINAR IN REHABILITATION AND HEALTH SCIENCES (2 credits spread out over 2 semesters)
- RHB 775 PROFESSIONAL SEMINAR IN REHABILITATION AND HEALTH SCIENCES: RESPONSIBLE CONDUCT IN RESEARCH AND ETHICS (1 credit)
- Two out of the following 3 courses are required:
 - RHB 772 PROFESSIONAL SEMINAR IN REHABILITATION AND HEALTH SCIENCES: ACADEMIA & BEYOND (1 credit)
 - RHB 773 PROFESSIONAL SEMINAR IN REHABILITATION AND HEALTH SCIENCES: GRANT WRITING (1 credit)
 - RHB 774 PROFESSIONAL SEMINAR IN REHABILITATION AND HEALTH SCIENCES: ISSUES IN TEACHING AND LEARNING IN HIGHER EDUCATION (1 credit)

Required:

- 6 credits in Research Methodologies
- 12 credits in area of specialization

- 6 credits in Research apprenticeship (RHB 789)
- 2 credits in Teaching apprenticeship (RHB 787)
- 4 credits in Dissertation hours (RHB 787)

Students must obtain a grade of "B" or better in RHB core courses.

Students are allowed a grade of a "C" in only two credited activities (class, seminar, independent study, research experience, or apprenticeship) during their doctoral education.

A grade of E in any coursework is grounds for dismissal from the program.

<https://www.uky.edu/chs/rehabilitation-sciences-phd-program>

Research Methods in Education Certificate

The RMinE Graduate Certificate provides students with the ability to specialize in education research methods that can be applied to a host of disciplines, e.g., social sciences, physical sciences, K-12 instruction/administration, and business. The certificate combines 12 hours of core courses and 3 hours of elective coursework for a total of 15 hours. Students will receive a foundation in a range of approaches to research, including quantitative methods, assessment, evaluation, and measurement, which can be applied at the introductory level to their specific fields. The program is open to all University of Kentucky students admitted to the Graduate School who want to demonstrate they have completed rigorous coursework in research methods.

Research Methods In Education, MS

The Master of Science in Research Methods in Education (RMinE) prepares students for careers in settings such as academic institutions, testing organizations, school districts, and state and federal agencies. It is designed to provide a foundation in basic research methods within a problem-of-practice framework while allowing students a focused area of emphasis on Quantitative Methods, Evaluation, or Research Design. RMinE students have the option to complete the entirety of their coursework online.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A 250-word statement of purpose describing the student's intellectual and professional goals for completing the program
- Two letters of reference with at least one from a referee familiar with the students' academic work
- Resume or Curriculum Vitae
- Applications are reviewed on a rolling basis; apply anytime.

Degree Requirements

- The program requires 37 hours of coursework, all of which is available online.
- All EPE students are required to take EPE601 Proseminar (1 credit hour) during their first semester of study in the department.
- Core Classes (18 credit hours) include:
 - EPE 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA /EPE 558 GATHERING, ANALYZING & USING EDUCATIONAL DATA II
 - EPE 571 WRITING SEMINAR IN EDUCATIONAL RESEARCH
 - EPE 619 SURVEY RESEARCH METHODS IN EDUCATION (SUBTITLE REQUIRED)
 - EPE 620 TOPICS AND METHODS OF EVALUATION
 - EPE 663 FIELD STUDIES IN EDUCATIONAL INSTITUTIONS or EPE 797 HISTORICAL RESEARCH ON EDUCATION
 - 3 credit hour Contextual Studies Course
- Choice of Concentration (6 credit hours)
 - Quantitative Methods (EPE 558 GATHERING, ANALYZING & USING EDUCATIONAL DATA II and EPE 660 RESEARCH DESIGN AND ANALYSIS IN EDUCATION)
 - Evaluation (EPE 522 PSYCHOLOGICAL AND EDUCATIONAL TESTS AND MEASUREMENTS and EPE 621 ADVANCED TOPICS AND METHODS OF EVALUATION)
 - Research Design (EDP 656 METHODOLOGY OF EDUCATIONAL RESEARCH and EPE 797 HISTORICAL RESEARCH ON EDUCATION)
- Guided Electives (12 credit hours chosen in consultation with the student's advisor)
- A student's program of study may vary from this structure if they receive approval from their major advisor
- Masters Exam: At the end of the program, RMinE students are expected to be able to implement an evaluation, create and test an assessment, or design and conduct an advanced quantitative research study. RMinE students are required to write and be examined on a scholarly paper in order to graduate from the program.

Retailing and Tourism Management, MSRAT

The graduate program in the Department of Retailing and Tourism Management is philosophically committed to the well-being of individuals in their immediate environment. The program is designed to meet individual student interests and career objectives.

The graduate program leads to a Master of Science Retailing and Tourism Management with a formal option in HMT (Hospitality Management & Tourism) or MAT (Merchandising, Apparel and Textiles). The program is individualized to meet each student's career interests using a combination of course work, independent study, and research experience. Coursework in RTM is selected to either the HMT (Hospitality Management & Tourism) or MAT (Merchandising, Apparel and Textiles) focus.

Admission Requirements

- Undergraduate degree: applicant should have an awarded four year Bachelor's degree in hospitality, tourism management, merchandising, textiles, retailing, marketing, management, or a related degree

- Official transcripts - overall 2.75 GPA in all undergraduate coursework; 3.0 GPA in any graduate work
- Current resume
- Personal Statement: This should be a brief statement as to why the individual wishes to pursue a graduate degree in RTM
- TOEFL Score: Minimum 79 (for non-native English speakers)
- Three letters of recommendation

Degree Requirements

RTM Plan A (Thesis Plan)

- Credit Requirements:
 - RTM Plan A requires 30 semester hours of coursework including a thesis
- Course Requirements:
 - 12 semester hours of the following CORE COURSES
 - RTM 600 RESEARCH METHODOLOGY IN HUMAN ENVIRONMENTAL SCIENCES (3)
 - RTM 650 SURVEY OF CURRENT THEORIES AND LITERATURE (3)
 - STA 570 BASIC STATISTICAL ANALYSIS (3)
 - RTM 772 SEMINAR IN RETAILING AND TOURISM MANAGEMENT (3)
 - 12 semester hours of SUPPORT SELECTION from courses at the 500, 600 or 700 level with prefixes HMT, MAT, or other those approved by DGS
 - 6 semester hours of RTM 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE
 - 12 semester hours of course work at 600-700 level
 - 18 semester hours of regular courses (structured course and not independent study)

RTM Plan B (Non-Thesis Plan)

- Credit Requirements:
 - RTM Plan B requires 30 semester hours of coursework including an industry experience
- Course Requirements:
 - 12 semester hours of the following CORE COURSES
 - RTM 600 RESEARCH METHODOLOGY IN HUMAN ENVIRONMENTAL SCIENCES (3)
 - RTM 650 SURVEY OF CURRENT THEORIES AND LITERATURE (3)
 - STA 570 BASIC STATISTICAL ANALYSIS (3)
 - RTM 772 SEMINAR IN RETAILING AND TOURISM MANAGEMENT (3)
 - 12 semester hours of SUPPORT SELECTION from courses at the 500, 600 or 700 level with prefixes HMT, MAT, or other those approved by DGS
 - 6 semester hours of RTM 690 INDUSTRY EXPERIENCE IN RETAILING AND TOURISM MANAGEMENT
 - 15 semester hours of course work at 600-700 level
 - 18 semester hours of regular courses (structured course and not independent study)

Program Website

<http://rtm.ca.uky.edu/content/graduate-programs>

Risk Sciences Certificate

The graduate certificate in Risk Sciences provides the foundational understanding of risk and crisis communication and the opportunity to develop practical application of this knowledge. Organizations and entities of various sizes are becoming keenly aware of the need for effective communication in risk and crisis contexts. This certificate will prepare students to meet this need. The certificate will require twelve credit hours, including risk communication, crisis communication, training and consulting, and knowledge management. Research implications (both theoretical and practical), lessons learned, and new theories of community risk communication will be included in the curriculum.

School Social Work Certificate

The graduate certificate in School Social Work is designed to prepare social workers to practice school social work, a specialized field of practice. The program also meets the Kentucky education professional standards board mandated requirements for school social work certification. The certificate program is available to: (1) UK degree seeking graduate students in the master of social work program, and (2) post-baccalaureate (non-degree) students who already hold the MSW degree from a CWSE accredited social work program. The minimum credits required are 17 for the MSW program students and 9 for post-baccalaureate students who hold the MSW. Applications for admission are evaluated, and students' progress is monitored and approved by a committee made up of professors from the Colleges of Social Work and Education.

School Technology Leadership Certificate

The graduate certificate in School Technology Leadership is conceptually framed around the international society for technology in Education's National Educational Technology Standards for Administrators (NETS-A). Students who engage in this graduate certificate will typically be educational administrators at all levels who want to learn how to support technology-suffused education and lead digital-age schools. This certification is focused on creating skills and dispositions for individuals committed to making systemic and lasting changes in schools, districts, states, and nations.

Science Translation and Outreach, MS

The College of Agriculture, Food, and Environment offers a fully online Master of Science (MS) degree in Science Translation and Outreach (Plan B Non-thesis option).

This transdisciplinary non-thesis Master of Science degree program builds student capacity to:

1. Assess public needs and interests with respect to agriculture, food and environment
2. Identify, sort and interpret credible scientific information from diverse fields relevant to public concerns
3. Use scientific information to create successful programs in applied research and outreach which effectively address public concerns.

Admission Requirements

- Completion of an undergraduate degree
- One to two-page resume or CV
- Personal statement describing your background and interest in the program
- Official transcripts from all post-secondary studies
- Three letters of recommendation

Degree Requirements

- Science Translation and Outreach students complete 12 hours of core courses and 18 hours of elective courses.
- You will create your individualized plan of study with the help of a faculty committee and culminate your degree with a real-world capstone outreach or research project.
- Four core courses:
 - STO 601 PROGRAM DEVELOPMENT AND EVALUATION (3 credit hours; CLD 665/SOC 665)
 - STO 602 SCIENCE LITERACY AND TRANSLATION (3 credit hours)
 - STO 603 RESEARCH METHODS (3 credit hours)
 - STO 650 CAPSTONE IN SCIENCE TRANSLATION AND OUTREACH (3 credit hours)
- Elective courses are selected and justified as a part of a personalized plan of study with the approval of a student's advisory committee and the STO Director of Graduate Studies.
- <https://sto.ca.uky.edu/>

Science, Technology, Engineering, and Mathematics Education, MSEDU

The Department of STEM Education offers programs leading to a Masters of Science in STEM Education and offers a strand option in the Education Sciences PhD program (see Education Sciences for more info). The MS in STEM Education program is a 30-hour program designed to prepare candidates for advanced roles in K-12 educational settings in the STEM content areas or for a terminal degree route in a STEM Education field. Full-time students in the STEM Education graduate programs are not required to serve in a funded assistantship, but those interested are eligible for the positions available. Part-time enrollment in the program is allowed and the program can be completed in evening hours

Admission Requirements

Admission to the MS in STEM Education program requires completion of a bachelor's degree from an accredited institution of higher education. While this degree does not have to be specific to a STEM Education field, the applicant does need to have strong content knowledge and an interest in the STEM field as evidenced by the rest of the application materials. The applicant must have adequate GRE scores, GPA of at least 2.75 at the undergraduate level and 3.0 at the graduate level, transcripts from previous institutions, a statement of career goals, and three letters of recommendation. The TOEFL is required for students in which English is not their first language. Once the application has been reviewed, applicants will be required to participate in an impromptu writing sample and interview with STEM Education faculty before a final admission decision is determined.

Degree Requirements

The department offers a variety of coursework in order to design a degree program that best meets the needs of the students in the program. Each student in the MS in STEM Education program is required to complete 12 hours of a specialization in a STEM content area (non-STEM Education courses). With the addition of 6 hours of electives, candidates in the program can acquire 18 hours of graduate coursework in a content area to meet the minimum guidelines needed to teach college-level courses in that content area. The remaining 12 hours of the program are dedicated to STEM Education coursework.

<https://education.uky.edu/stem/graduate/ms/>

Secondary STEM Education, MAT

The MAT in Education will provide candidates interested in teaching secondary STEM disciplines with a Master of Arts in Teaching (MAT), allowing you to teach appropriate courses in grades 8-12. You will need an undergraduate degree (or recognized equivalent) in the STEM discipline to be admitted. This program is designed as a hybrid online/on-campus format and gives students two pathway options: one-year pathway and two-year pathway. Additionally, you will need to have passed the GRE or equivalent Praxis exams. The program follows a clinical model and provides student with ample practical experience with a sequence of university research / industry externships, diverse field placements, and student teaching. Students will need to successfully complete the Praxis exam in their area of certification, as well as the Principles of Learning and Teaching (PLT) Praxis. The remaining exit requirements for program completion include a passing mark on the master's exam and completion of an online portfolio of key assignments tagged with accompanying standards. Meeting the exit requirements will result in an approval for certification to accompany the approval to receive the master's degree.

Admission Requirements

Admission to the MAT in STEM Education program requires completion of a bachelor's degree in a STEM field from an accredited institution of higher education. The applicant must have passing GRE scores or equivalent Praxis test, GPA of at least 2.75 at the undergraduate level, transcripts from previous institutions, a statement of career goals, and three letters of recommendation. The TOEFL is required for students in which English is not their first language. Once the application has been reviewed, applicants will be required to participate in an impromptu writing sample and interview with STEM Education faculty before a final admission decision is determined.

Degree Requirements

Once admitted, you will be required to attain 31 credits. The required coursework will include a sequence of methods / seminar classes, as well as classes in core education areas such as educational psychology, special education, education policy, literacy, and assessment. Students in this program will also need to complete six elective credits from options within the College of Education or the College of Arts & Sciences, to be approved by the appropriate program chair.

<https://education.uky.edu/stem/graduate/mat/>

Senior Diversity Officer Leadership Certificate

This is a nine-hour, fully online Graduate Certificate in Senior Diversity Officer Leadership prepares students for high-level administrative positions in diversity, equity, and inclusiveness leadership in higher education settings. Colleges and universities across the nation are seeking leaders to serve as change agents, bringing innovation, creativity, and high-level strategic thinking to diversity, equity, and inclusiveness roles on their campuses.

This graduate certificate is designed to inspire and equip students for innovative, high-level strategic thinking in diversity, equity, and inclusion roles in higher education and related settings.

Social Theory Certificate

This certificate offers students systematic multidisciplinary training in social theory. It augments, and is pursued concurrently with, the regular MA and PhD Degree programs of participating departments. In total, the certificate requires ten hours of course work, can be pursued in tandem with regular degree programs, and is open to all graduate students at the University of Kentucky.

Social Work, MSW

An MSW degree prepares students to facilitate change in working with people, families and communities. The MSW program is open to all undergraduate degrees and may be completed full time or part time, in either a hybrid or online format, and is accredited by the Council on Social Work Education (CSWE). The MSW is an Advanced Generalist program and prepares students for social work practice across the micro-macro continuum with diverse populations. In addition, students may complete certificates in multiple areas (including clinical practice, child welfare, substance misuse, military behavioral health, school social work) or students may complete coursework specific to an individualized plan of study to be meet their area of interest. Finally, the college offers two cognate areas that provide student funding, integrated behavioral health (IBH) with social workers in primary care settings and substance use disorder (SUD) that provide funding for students to serve in practicums with SUD prevention and intervention agencies in underserved populations.

Students may attend hybrid classes on UK's main campus in Lexington or asynchronously online. The Army MSW program is offered at Fort Sam Houston in San Antonio, Texas and is a selective admission process through the Department of Defense.

Degree Requirements

UK College of Social Work offers full-time and part-time plans of study to earn a Master of Social Work (MSW).

Our regular standing MSW is a 60-credit program that consists of:

- Fifty one credits of classwork-including 12 hours of electives
- Nine credits of fieldwork experience.

Our advanced standing MSW is a 30-credit program that consists of:

- Twenty four credits of classwork-including 9 hours of electives for 30 credit program
- Six credits of fieldwork experience.

Plans of study for each of the programs can be found: <https://socialwork.uky.edu/academics/msw/about-msw/>.

MSW Advanced Generalist 60 Hour -- Foundational Courses

- SW 600 SOCIAL WORK PRACTICE WITH INDIVIDUALS AND FAMILIES
- SW 602 THEORY-INFORMED SOCIAL WORK PRACTICE WITH GROUPS
- SW 620 UNDERSTANDING THEORY IN SOCIAL WORK PRACTICE
- SW 621 UNDERSTANDING POVERTY, INEQUALITY, AND INJUSTICE: FOUNDATIONS OF PRACTICE
- SW 625 INTRODUCTION TO SOCIAL WORK: PROFESSIONAL BEHAVIOR AND ETHICS
- SW 630 INTRODUCTION TO SOCIAL WELFARE POLICY AND SERVICES
- SW 636 SOCIAL WORK PRACTICE WITHIN ORGANIZATIONS AND COMMUNITIES I
- SW 640 FOUNDATION PRACTICUM
- SW 650 RESEARCH METHODS IN SOCIAL WORK

MSW Advanced Generalist 30/60 Hour Core Courses

- SW 722 PSYCHOPATHOLOGY FOR SOCIAL WORK PRACTICE
- SW 724 ADVANCED PRACTICE WITH INDIVIDUALS AND FAMILIES: ASSESSMENT AND TREATMENT PLANNING
- SW 731 ADVANCED SOCIAL WELFARE POLICY AND ANALYSIS
- SW 733 SOCIAL WORK PRACTICE WITHIN ORGANIZATIONS AND COMMUNITIES II: INTERVENTION AND EVALUATION
- SW 740 ADVANCED SOCIAL WORK PRACTICUM I
- SW 741 ADVANCED SOCIAL WORK PRACTICUM II
- SW 750 APPLIED RESEARCH METHODS IN SOCIAL WORK

General information on electives:

At the University of Kentucky, we have certificates in Clinical Social Work, Substance Misuse, Child Welfare, School Social Work, Military Behavioral Health, etc. which allow students to add an additional academic credential through the electives in the MSW program. If there is not a certificate that appeals, students can certainly create an individualized academic experience through a combination of electives.

- SW 505 CHILD WELFARE SERVICES
- SW 515 MEDICAL AND PSYCHOSOCIAL ASPECTS OF DISABILITIES: PHYSICAL DISABILITY
- SW 516 MEDICAL AND PSYCHOSOCIAL ASPECTS OF DISABILITIES: PSYCHIATRIC DISABILITIES
- SW 518 INTERNATIONAL SOCIAL WORK
- SW 519 UNDERSTANDING INTIMATE PARTNER VIOLENCE
- SW 520 UNDERSTANDING THE DIVERSE NEEDS OF CHILDREN AND ADOLESCENTS
- SW 523 SOCIAL PERSPECTIVES ON RACISM AND ETHNIC PREJUDICES IN AMERICA
- SW 524 SUBSTANCE MISUSE
- SW 530 RESPONDING TO MILITARY AND VETERAN POPULATIONS
- SW 550 CHILD SEXUAL ABUSE: ASSESSMENT AND INTERVENTION
- SW 571 SOCIAL WORK AND THE LAW
- SW 580 TOPICAL SEMINAR IN SOCIAL WORK
- SW 616 SOCIAL WORK PRACTICE IN SCHOOL SETTINGS
- SW 626 FORENSIC MENTAL HEALTH: EVALUATION AND TREATMENT
- SW 702 SUBSTANCE MISUSE, VIOLENCE AND RISK MANAGEMENT
- SW 726 PSYCHOPATHOLOGY FOR CLINICAL SOCIAL WORK
- SW 728 COMPARATIVE TREATMENT MODALITIES
- SW 730 EVIDENCE-BASED PRACTICE FOR SOCIAL WORKERS
- SW 737 NON-PROFIT MANAGEMENT IN HUMAN SERVICE ORGANIZATIONS
- SW 738 GUIDED INDEPENDENT WORK: MILITARY AND VETERAN POPULATIONS

Social Work, PhD

The purpose of the PhD in social work is to prepare students to be "stewards of the discipline" (Walker et al., 2008 as cited in GADE, 2013). Students' areas of scholarship should stem from the mission and purpose of the profession: "to enhance human well-being and help meet the needs of all people, with particular attention to the needs and empowerment of people who are vulnerable, oppressed, and living in poverty" (NASW Code of Ethics, 2017). Through course work, as well as the Preliminary and Qualifying Examinations, and dissertation development, students develop the capacity for scholarly inquiry and action that are the foundations for creative, independent, and meaningful scholarship. The PhD in social work also offers coursework and mentored teaching experience to develop and strengthen students' skills as social work educators.

The UK CoSW PhD program is designed so that students will attain knowledge and skills associated with:

- A social problem that is addressed in the dissertation
- Theories that underlie interventions and approaches to the social problem
- Empirical research methodology, statistics, and other analytic techniques
- Effective approaches to teaching and mentoring future social workers.

- Expertise in a particular interest area
- Creating publishable research and making scholarly contributions to the profession

Admission Requirements

- a master's degree in social work from a program accredited by or judged to be equivalent by CSWE (applicants with other master's degrees can also be considered)
- at least two years' post-master's full-time, paid experience in social work is preferred
- an undergraduate grade point average (GPA) of 3.0 on a 4.0 scale and a graduate GPA of 3.5
- official transcripts from each college/university attended
- Graduate Record Examination (GRE) test scores
- three letters of reference that address their potential for success in a research-oriented doctoral program and aptitude for research and teaching. Recommendations from individuals who have supervised your research and scholarly work (e.g., research project supervisors, thesis advisors, professors) tend to be the most useful to the admissions committee and should comprise the majority of the letters.
- a writing sample or publication
- a personal statement that describes career and research interests, motivation for pursuing a PhD, what attracts the applicant to the PhD program at UK, and any other factors that should be considered in the evaluation of the application.

Degree Requirements

The minimum requirements for the PhD include:

- Core Curriculum - 29 credit hours
- The pedagogical mission of the PhD core curriculum is to help students understand, apply, and implement the most up-to-date and effective analytic tools available from the human, behavioral, and social sciences to meet the challenges facing the doctoral level researcher, teacher, and practitioner. The sequencing of the course work moves the student from foundational principles and analytic skills necessary for scientific research, to the application of specific research design and statistical methods necessary for design and implementation of specific projects. Three courses focus on theory development, five on the mastery of research and statistical approaches, one on the theory and methodology of teaching; and two professional seminars introduce the students to the professional development, research, and service related activities of social work scholars and faculty.
- Individualized Plan of Study - 15 credit hours

- 9 credit hours - Individualized Study (elective courses selected in consult with advisor; these can be taken outside the CoSW)
- 6 credit hours - Research/Teaching Practica (SW 786 / SW 787 ; students typically do one of each)
- Preliminary exam - Systematic Literature Review
- Dissertation Research Residency - (at least) 4 credit hours of SW 767

Sociology, MA

The Sociology graduate program offers Master of Arts and Doctor of Philosophy degrees. Plan A or B are both options for the Master's degree. Graduate students choose an area of specialization related to the following faculty areas of expertise: Crime, Law, and Deviance; Environment and Society; Health and Medical Sociology, and Social Inequalities. Additionally, students must demonstrate competence in sociological theory and social science methods.

To aid in financing graduate education, a number of teaching or research assistantships are available to qualified students. Outstanding students may compete for fellowships.

Opportunities for multidisciplinary work exist in conjunction with centers and programs at the University of Kentucky including the Appalachian Center and Appalachian Studies, Center for Health Equity Transformation, Center for Research on Violence Against Women, Prevention Research Center, Center on Drug and Alcohol Abuse, Center for Poverty Research, Committee on Social Theory, Commonwealth Institute for Black Studies, Cooperative for Humanities and Social Sciences, Gender and Women's Studies, Quantitative Initiative for Policy and Social Research, and the Sanders-Brown Center on Aging. Assistantships and traineeships are also available to qualified sociology graduate students through these centers and programs.

Admission Requirements

The following materials are required to apply for admission to the graduate program in Sociology and should be sent directly to the Graduate School's application system's website. Any inquiry on the program requirements and the admission process should be directed to the Director of Graduate Studies of the Department of Sociology.

- The percentile rankings of the three components of the Graduate Record Examination (GRE) must average (mean) at least 50 percent.
- A statement of goals and reasons for pursuing an advanced degree in sociology. It is helpful if applicants also address the field(s) of interest within sociology they may wish to pursue in their graduate studies.
- A sample of writing, preferably in the form of a term paper, an extensive essay, or a draft of a senior thesis. If the applicant has completed a master's degree, she or he may submit one or two chapters from the master's thesis. Please do not submit a copy of the entire master's thesis.
- Three letters of recommendation.

- Undergraduate and graduate transcripts, if applicable.
- TOEFL/IELTS scores, if applicable.

Degree Requirements

36 total credit hours pre-residency

Core requirements

- SOC 681 QUANTITATIVE ANALYSIS I
- SOC 781 QUANTITATIVE DATA ANALYSIS II
- SOC 651 CLASSICAL SOCIOLOGICAL THEORY
- SOC 751 CONTEMPORARY SOCIOLOGICAL THEORY
- SOC 680 SOCIAL INVESTIGATION

Students are also required to take an addition 6 credit hours of social science research methods from a wide selection of approved courses.

Of the 15 hours of electives, 12 must be sociology courses and 12 must be in the student's area of specialization.

MA students must also pass a comprehensive exam and a "Plan B" second-year paper defense.

<https://soc.as.uky.edu/sociology-graduate-program>

Sociology, PhD

The Sociology graduate program offers Master of Arts and Doctor of Philosophy degrees. Graduate students choose an area of specialization related to the following faculty areas of expertise: Crime, Law, and Deviance; Environment and Society; Health and Medical Sociology, and Social Inequalities. Additionally, students must demonstrate competence in sociological theory and social science research methods.

To aid in financing graduate education, a number of teaching or research assistantships are available to qualified students. Outstanding students may compete for fellowships.

Opportunities for multidisciplinary work exist in conjunction with centers and programs at the University of Kentucky including the Appalachian Center and Appalachian Studies, Center for Health Equity Transformation, Center for Research on Violence Against Women, Prevention Research Center, Center on Drug and Alcohol Abuse, Center for Poverty Research, Committee on Social Theory, Commonwealth Institute for Black Studies, Cooperative for Humanities and Social Sciences, Gender and Women's Studies, Quantitative Initiative for Policy and Social Research, and the Sanders-Brown Center on Aging. Assistantships and traineeships are also available to qualified sociology graduate students through these centers and programs.

Admission Requirements

The following materials are required to apply for admission to the graduate program in Sociology and should be sent directly to the Graduate School's application system website. Any inquiry on the program requirements and the admission process should be directed to the Director of Graduate Studies of the Department of Sociology.

- The percentile rankings of the three components of the Graduate Record Examination (GRE) must average (mean) at least 50 percent.
- A statement of goals and reasons for pursuing an advanced degree in sociology. It is helpful if applicants also address the field(s) of interest within sociology they may wish to pursue in their graduate studies.
- A sample of writing, preferably in the form of a term paper, an extensive essay, or a draft of a senior thesis. If the applicant has completed a master's degree, she or he may submit one or two chapters from the master's thesis. Please do not submit a copy of the entire master's thesis.
- Three letters of recommendation.
- Undergraduate and graduate transcripts, if applicable.
- TOEFL/IELTS scores, if applicable.

Degree Requirements

36 total credit hours pre-residency

Core requirements

- SOC 681 QUANTITATIVE ANALYSIS I
- SOC 781 QUANTITATIVE DATA ANALYSIS II
- SOC 651 CLASSICAL SOCIOLOGICAL THEORY
- SOC 751 CONTEMPORARY SOCIOLOGICAL THEORY
- SOC 680 SOCIAL INVESTIGATION

Students are also required to take an addition 6 credit hours of social science research methods from a wide selection of approved courses.

Of the 15 hours of electives, 12 must be sociology courses and 12 must be in the student's area of specialization.

Ph.D. students must also pass a comprehensive exam, qualifying exam, dissertation prospectus defense, and dissertation defense.

<https://soc.as.uky.edu/sociology-graduate-program>

Special Education, MSEDU

The 30-hour master's degree can be completed on a part-time basis over the course of five semesters (2.5 calendar years). The courses are offered in a face-to-face format for local students and in an online format

for those students who are not local. Students taking the online version of the program attend courses virtually and can interact with professors and classmates in real-time. All classes take place in the evenings to allow teachers to complete their workday prior to attending class. Taking the GRE is not required for entry. Admission is accepted for both Fall and Spring semesters, however the core courses begin in Fall semesters, therefore a Spring admission may not be appropriate unless the student requires some prerequisite coursework.

The master's degree has three options for specialization. The focus area the student chooses will shape the coursework, research projects, and clinical experiences in which the student will participate. The focus areas include:

1. The Moderate and Severe Disabilities Track is available for teachers who hold certification in moderate and severe disabilities.
2. The Learning and Behavior Disorders Track (not available online) is available for teachers who hold certification in learning and behavior disorders.
3. The Assistive Technology track is open to teachers with either type of certification in special education.

Admission Requirements

To be admitted to the master of science in special education program, students need to be certified in special education or have an undergraduate degree in special education. Students must have a minimum undergraduate cumulative grade point average of 2.75.

Degree Requirements

Total credit hours

- 30 hours

Core requirements

Core requirements include the following courses:

- EDS 601 CONCEPTS AND PRINCIPLES OF APPLIED BEHAVIOR ANALYSIS (3)
- EDS 618 ASSESSMENT AND TREATMENT OF PROBLEM BEHAVIOR (3)
- EDS 630 ADVANCED METHODS FOR TEACHING STUDENTS WITH DISABILITIES (3)
- EDS 633 SINGLE CASE RESEARCH METHODOLOGY (3)
- EDS 634 LEADERSHIP IN SPECIAL EDUCATION (3)
- EDS 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE PROGRAM (1-3)

Additional coursework by Focus Area:

MSD Focus

- EDS 631 ADVANCED PROGRAMMING FOR STUDENTS WITH MODERATE AND SEVERE DISABILITIES (3)
- EDS 632 ADVANCED PRACTICUM: MODERATE AND SEVERE DISABILITIES (6)

LBD Focus

- EDP 557/EPE 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA (3)
- EDS 610 ADVANCED EDUCATIONAL ASSESSMENT FOR STUDENTS WITH MILD DISABILITIES (3)
- EDS 611 CONTEMPORARY TRENDS AND ISSUES IN THE EDUCATION OF STUDENTS WITH MILD DISABILITIES. (3)

AT Focus

- EDS 640 ASSISTIVE TEACHING (3)
- EDS 641 ASSISTIVE TECHNOLOGY ASSESSMENT (3)
- EDS 648 COORDINATING ASSISTIVE TECHNOLOGY PROGRAMS (3)

Electives

Students may choose from 2-5 credit hours of electives including:

- EDC 454G/EPE 454G CULTURE, EDUCATION AND TEACHING ABROAD (3)
- EDC 724 GUIDING AND ANALYZING EFFECTIVE TEACHING (3)
- HDI 604 INTERDISCIPLINARY LEADERSHIP SEMINAR (2)
- HDI 605 INTERDISCIPLINARY LEADERSHIP PRACTICUM (2)
- Select from EDL Teacher Leadership Courses (2)

<https://education.uky.edu/edsrc/eds/degrees-programs/masters/>

Special Education, PhD

The goal of the Special Education Leadership Personnel Preparation Program is to prepare students to assume positions as educators, researchers, and scholars in higher education settings. The program leads to the Doctor of Philosophy in Education degree (Ph.D.).

Students in the Ph.D. in the Department of Early Childhood, Special Education, and Counselor Education may select program focus areas in applied behavior analysis, assistive technology, learning and behavior disorders, moderate and severe disabilities, and interdisciplinary early childhood education. There is a formal option in Counselor Education. See the Counselor Education Doctoral Program that offers a Departmental Ph.D. degree with a formal option in Counselor Education, Research, and Policy.

Admission Requirements

Admission requirements for the Ph.D. program include:

- A minimum undergraduate cumulative grade point average of 2.75.

- Combined scores on the verbal and quantitative portions of the Graduate Record Examination (GRE) of 300 (current scale) or 1000 (prior scale).
- A fifth-year certification OR a master's degree in special education, interdisciplinary early childhood education, or counselor education with a minimum grade point average of 3.5.
- A minimum of three (3) years of successful experience in special education or related field.
- At least four (4) positive recommendations attesting to the candidate's ability as a professional with potential for success in doctoral study.
- A statement of the applicant's objectives for completing a doctoral program.
- A personal statement or brief autobiographical statement of the applicant.
- A sample of the applicant's academic or professional writing.

If an applicant meets these criteria and appears to have the background, academic record, experience, and professional objectives that are consistent with Departmental expectations, the person is invited to campus to interview with faculty and to meet current doctoral students. If the candidate is unable to visit the campus, arrangements can be made for telephone or web-conference interviews with members of the Department's Graduate Admissions and Standards Committee (GASC). However, it is highly recommended that applicants visit campus.

The GASC then makes a decision about admission. If all criteria are met, a recommendation is forwarded to the Graduate School via the Department's Director of Graduate Study (DGS). Typically, admission decisions are made no later than 30 days after the interviews have been completed.

Deadlines: Application deadlines are March 1 for Fall applications and October 1 for Spring applications.

Degree Requirements

The first phase of study (up to 18 semester hours) is considered the preliminary year. During this period, students are expected to demonstrate basic competencies in applied behavior analysis, assessment, general special education content, instructional strategies, and technology. They may do this by fulfilling the requirements of the required graduate core courses.

Each student is required to develop and maintain a portfolio with entries included from each course. Collectively, these entries should reflect the post-doctoral role within institutions of higher education and/or other services for which the student is preparing. Thus, entries will include but are not limited to: (a) developing training curricula, (b) teaching content and methods courses, (c) supervising practicum experiences, including student teaching, (d) advising students, (e) providing consultation and other services, (f) giving professional conference presentations, (g) conducting research, including writing scholarly publications, and (h) writing research and training grant proposals for extramural funding in special education. The student work is guided, during the first year, by a temporary advisor, who may be selected by the student with the approval of the Department's DGS. In the event that the student's choice of an advisor is not available, or if the student does not have a choice, the DGS will appoint a temporary advisor after consulting with the Department's GASC.

Students then select a faculty member to serve as a mentor. After obtaining the consent of a faculty member to serve as mentor, the student and mentor also select an Advisory Committee of three additional faculty members who will assist in the development and supervision of the student's program of study.

Coursework, independent study products, and practicum experiences are selected by the student's doctoral advisory committee to ensure that this level of specialization is appropriate for a person at the doctoral degree level. Following the guidelines adopted by the College of Education, the doctoral program must consist of a minimum of 42 credit hours past the master's degree. Most doctoral students take between 60 and 100 semester hours of coursework (including the master's degree).

Core requirements

Specific course requirements for individual students will vary according to each student's background and stated objectives. Competency lists that have been developed by faculty in the Department guide the selection of courses and related training experiences. However, each student must complete a graduate core (23 credits), coursework in a departmental area of emphasis consisting of at least 15 credits, coursework in a support area (a minimum of 15 credits), and a research block of courses (minimum of 21 credits). The coursework is divided among four areas:

1. Special education personnel preparation
2. An area of emphasis selected from the following:
 - Applied behavior analysis
 - Assistive technology
 - Interdisciplinary early childhood education
 - Learning and behavior disorders
 - Moderate and severe disabilities
3. A thematic support area from outside the department area of emphasis.
4. A research block of courses.

Students complete required doctoral core requirements include the following courses:

- EDS 601 CONCEPTS AND PRINCIPLES OF APPLIED BEHAVIOR ANALYSIS (3) **or**
- CED 740 ADMINISTRATION, SUPERVISION AND PROGRAM EVALUATION IN REHABILITATION COUNSELING (3)
- EDS 633 SINGLE CASE RESEARCH METHODOLOGY (3) **or**
- CED 735 ADVANCED METHODS FOR TEACHING AND CONDUCTING RESEARCH IN COUNSELOR EDUCATION: FROM THEORY TO PRACTICE (3)
- EDS 701 SEMINAR FOR EDSCE LEADERSHIP PERSONNEL (1 credit each, 4 semesters)
- EDS 710 SEMINAR IN MILD DISABILITIES (3) **or**
- EDS 711 SEMINAR IN MODERATE AND SEVERE DISABILITIES (3) **or**
- IEC 709 SEMINAR IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION (3) **or**
- CED 711 SEMINAR IN ADVANCED REHABILITATION PRACTICES AND PROCEDURES (3)
- EDS 712 SEMINAR IN EDSCE PROFESSIONAL SERVICES (3)
- EDS 720 SEMINAR IN EDSCE TEACHER PREPARATION (3)
- EDS 721 PRACTICUM IN EDSCE PERSONNEL PREPARATION (3)
- EDS 767 DISSERTATION RESIDENCY CREDIT (3-9) EDS 767 is taken for a minimum of two credits per semester for two semesters (excluding summer terms) after successful completion of the qualifying exam

Electives

The student's electives are individually determined by the doctoral advisory committee.

<https://education.uky.edu/edsrc/eds/degrees-programs/doctorate/>

Sport and Exercise Psychology, MS

The field of sport and exercise psychology is an interdisciplinary science that explores the relationship between various psychological factors and participation in sport and/or physical activity. The two-year program in the Department of Kinesiology and Health Promotion offers students the choice to pursue a graduate education in the field of sport and exercise psychology by either following an applied or research track. Each option integrates theory-based research and the application of key concepts associated with performance enhancement and life skill development. In this context, successful completion of this program will result in a strong understanding of the various psychosocial factors that influence sport participation and performance. Upon admission to the program, students will be assigned a faculty advisor who will assist in course selection and planning. The exact program of study specified in an individual program plan will depend on previous coursework and/or individual goals.

Admission Requirements

Applicants must meet the following criteria for admission:

- An undergraduate degree in a field closely related to sport and exercise psychology (e.g., psychology, exercise science, health sciences, sport management, etc.).
- A minimum cumulative undergraduate GPA of 2.75 (on 4.0 scale)

Application Requirements

- Official undergraduate transcript
- An updated CV or professional resume
- Three letters of recommendation. At least two from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).
- A professional goal statement describing the applicants professional background, motivations for seeking a graduate education in SEP, why the current program and desired track are an ideal fit, and career/research aspirations.

Degree Requirements

Disciplinary Core Required Courses:

- KHP 547 PSYCHOLOGY OF SPORT AND PHYSICAL ACTIVITY (3)
- KHP 580 GROUP DYNAMICS IN SPORT AND PHYSICAL ACTIVITY (3)
- KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3)

Suggested Electives (Choose 3):

- EDP 614 MOTIVATION AND LEARNING (3)
 - KHP 605 PSYCHOLOGICAL ASPECTS OF SPORT INJURY AND REHABILITATION (3)
 - KHP 673 HEALTH PROMOTION AND BEHAVIOR CHANGE (3)
 - KHP 674 FOUNDATIONS OF HEALTH PROMOTION (3)
 - KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT (3)
 - KHP 683 LEADERSHIP, THEORY, AND PRACTICE IN SPORT AND FITNESS ORGANIZATIONS (3)
 - KHP 720 SPORTS MEDICINE (3)
- TOTAL: 18 credit hours

Professional Practice Core Required Courses:

- EDP 605 INTRODUCTION TO COUNSELING: TECHNIQUES I (3)
- EDP 688 ETHICAL AND LEGAL ISSUES IN PSYCHOLOGY (3)
- KHP 689 INTERNSHIP IN SPORT AND EXERCISE PSYCHOLOGY (150 hours per 3.0 credit hours) (6)

Suggested Electives (Choose 1):

- EDP 600 LIFE SPAN HUMAN DEVELOPMENT AND BEHAVIOR (3)
 - EDP 642 INDIVIDUAL ASSESSMENT OF PERSONALITY FUNCTIONING (3)
 - EDP 649 GROUP COUNSELING (3)
 - EDP 650 DIAGNOSIS AND PSYCHOPATHOLOGY IN COUNSELING PSYCHOLOGY (3)
 - EDP 777 SEMINAR IN COUNSELING PSYCHOLOGY (3)
 - SW 530 RESPONDING TO MILITARY AND VETERAN POPULATIONS (3)
- TOTAL: 15 credit hours

Statistics/Research Design Disciplinary Core Required Courses:

- EDP 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA (3) OR EDP 558 GATHERING, ANALYZING & USING EDUC DATA (3)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3)
- TOTAL: 6 credit hours

Sport Psychology Disciplinary Core Required Courses:

- KHP 547 PSYCHOLOGY OF SPORT AND PHYSICAL ACTIVITY (3)
- KHP 580 GROUP DYNAMICS IN SPORT AND PHYSICAL ACTIVITY (3)
- KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3)

Suggested Electives (Choose 2):

- EDP 614 MOTIVATION AND LEARNING (3)
- KHP 605 PSYCHOLOGICAL ASPECTS OF SPORT INJURY AND REHABILITATION
- KHP 673 HEALTH PROMOTION AND BEHAVIOR CHANGE
- KHP 674 FOUNDATIONS OF HEALTH PROMOTION
- KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT

- KHP 683 LEADERSHIP, THEORY, AND PRACTICE IN SPORT AND FITNESS ORGANIZATIONS
 - KHP 720/AT 720 SPORTS MEDICINE (3)
- TOTAL: 15 credit hours

Sport Psychology Professional Practice Core Required Course:

- EDP 605 INTRODUCTION TO COUNSELING: TECHNIQUES I (3)

Suggested Electives (Choose 2):

- EDP 600 LIFE SPAN HUMAN DEVELOPMENT AND BEHAVIOR
 - EDP 642 INDIVIDUAL ASSESSMENT OF PERSONALITY FUNCTIONING
 - EDP 649 GROUP COUNSELING
 - EDP 688 ETHICAL AND LEGAL ISSUES IN PSYCHOLOGY
 - EDP 777 SEMINAR IN COUNSELING PSYCHOLOGY
 - SW 530 RESPONDING TO MILITARY AND VETERAN POPULATIONS (3)
- TOTAL: 9 credit hours

Statistics/Research Design Disciplinary Core Required Courses:

- EPE 558 GATHERING, ANALYZING & USING EDUCATIONAL DATA II (3)
- KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3)
- KHP 748 MASTER'S THESIS RESEARCH (3)

Suggested Electives (Choose 1)

- KHP 695 INDEPENDENT STUDY IN KINESIOLOGY AND HEALTH PROMOTION (3)
 - EDP 660 RESEARCH DESIGN AND ANALYSIS IN EDUCATION (3)
 - SW 772 INTRODUCTION TO QUALITATIVE RESEARCH (3)
- TOTAL: 15 credit hours

PROGRAM TOTAL: 39 credit hours (minimum)

Sport, Fitness, and Recreation Management Certificate

This 12-credit graduate certificate in Sport, Fitness, and Recreation Management is designed for current professionals to increase their understanding of leadership skills and principles. The graduate certificate will offer students the opportunity to be a part of the University of Kentucky tradition, while also advancing a knowledge base in leadership principles including but not limited to: legal issues, policy & governance, and historical foundations of athletics.

Statistics, MS

The Department of Statistics offers programs of study leading to the degrees of Master of Science (Plan A or B available), Doctor of Philosophy, and Master of Applied Statistics (Online). The M.S. degree is

professionally oriented for the student who plans a career in government, business or industry and is preparatory for the Ph.D. The Ph.D. program offers a broad training in both statistical theory and methods while affording options to suit the student's interests. The statistics Ph.D. is well-suited for academic, business, government and industrial positions. In addition to formal course work and research training, the advanced student has opportunities to gain valuable practical experience by participating in consulting activities under faculty supervision. Master of Applied Statistics is an innovative,online professional graduate degree which is designed to train professional, practice-oriented statisticians who have both data analytic and computing skills.

Both, the M.S. and the Ph.D. program offer a Mathematical Statistics track, as well as a Biostatistics track. The latter tracks are designed for students who envision a future at the interface of Statistics and the Life Sciences.

Course work is available in areas associated with statistics such as biological modeling, probability, inference, experimental design and analysis, computational statistics, nonparametric methods, Bayesian analysis, mixed modeling, multivariate analysis, survival analysis, clinical trials, and many other selected topics of the student's choice.

The University of Kentucky is represented on the Committee on Statistics of the Southern Regional Education Board.

Admission Requirements

Students with an undergraduate major in any of the mathematical, physical, biological, social or applied sciences are encouraged to apply.

The minimum GRE and GPA admissions requirements for the M.S. and Ph.D. programs in Statistics are the same as for the Graduate School. However, the number of admissions is limited and admissions decisions are made on a competitive basis. All M.S. applicants must have successfully completed a three or four semester sequence in calculus and a course in linear algebra and have good communication skills. In addition, all Ph.D. applicants must have mastered the equivalent of MA 471G. All Master of Applied Statistics applicants must have completed two semesters of calculus and a course in statistical methodology. Students wishing to apply for teaching assistantships and/or fellowships must submit three letters of recommendation. Applicants wishing to be admitted directly to the Ph.D. program must have an M.S. in Statistics and the permission of the Director of Graduate Studies.

Please see the departmental website for up-to-date information and answers to frequently asked questions about the admissions process.

Degree Requirements

The Statistics Department offers the degree of Master of Science with (Plan A) or without (Plan B) a thesis, and in two different tracks: a Mathematical Statistics track and a Biostatistics track.

Shared Core (Required for all students)

- STA 602 INTRODUCTION TO STATISTICAL METHODS (4)
- STA 603 INTRODUCTION TO LINEAR MODELS AND EXPERIMENTAL DESIGN (4)
- STA 605 COMPUTATIONAL INFERENCE (3)
- STA 606 THEORY OF STATISTICAL INFERENCE I (3)

- STA 623 THEORY OF PROBABILITY (3)
- STA 632 LONGITUDINAL DATA ANALYSIS (3)

Mathematical Statistics Track

Curriculum requirements for the Mathematical Statistics track are the shared core courses above, plus the following courses:

- STA 607 THEORY OF STATISTICAL INFERENCE II (3)
- STA 624 APPLIED STOCHASTIC PROCESSES (3)
- STA 643 ADVANCED EXPERIMENTAL DESIGN (3)

Biostatistics Track

Curriculum requirements in the Biostatistics track are the shared core courses above, plus:

- STA 635 SURVIVABILITY AND LIFE TESTING (3)
- STA 653 CLINICAL TRIALS (3)
- STA 665 ANALYSIS OF CATEGORICAL DATA (3)
- STA 693 BIOSTATISTICAL PRACTICUM (2) 1 unit course in each of the two semesters in the second year

Programs of study for Plan B require a total of at least 35 semester hours. Students will typically fulfill this requirement by taking electives (additional courses besides the shared core and track requirements) in the Fall and Spring of their second year. Programs of study for Plan A (with thesis) require a total of at least 30 semester hours which are satisfied by either of the two course lists above plus 1 or more hours of STA 768 or additional coursework.

The electives can be selected from the menu of courses listed below. Before the end of the second semester, the M.S. candidate must present a proposed plan of study for approval by the Director of Graduate Studies. There are no formal minor requirements.

Comprehensive Exams

All master's candidates are required to pass a comprehensive departmental written examination on the content of the courses STA 602, STA 603, STA 605, STA 606, and STA 623. This examination is normally administered in late May/early June. It is truly comprehensive also in the sense that all parts must be taken together: If a student decides not to take a part of the examination, that part is automatically counted as failed. Students taking the comprehensive exam will receive either a pass at the doctoral level, a pass at the master's level, or a failure. The examination may be repeated only once. Successful completion of the comprehensive examination at the doctoral level is required for admission into the PhD program.

Electives

The electives may be chosen from any course in the following menu that is NOT used as a track requirement.

- MA 471G ADVANCED CALCULUS I (3)

- STA 607 THEORY OF STATISTICAL INFERENCE II (3)
- STA 612 SEQUENTIAL ANALYSIS (3)
- STA 616 Design and Analysis of Sample Surveys (3)
- STA 621 NONPARAMETRIC INFERENCE (3)
- STA 624 APPLIED STOCHASTIC PROCESSES (3)
- STA 626 TIME SERIES ANALYSIS (3)
- STA 630 BAYESIAN INFERENCE (3)
- CPH 631 (3) Design and Analysis of Health Survey
- STA 635 SURVIVABILITY AND LIFE TESTING (3)
- CPH 636 Data Mining in Public Health (3)
- STA 643 ADVANCED EXPERIMENTAL DESIGN (3)
- STA 644 ADVANCED LINEAR AND NONLINEAR MODELS (3)
- STA 653 CLINICAL TRIALS (3)
- STA 661 MULTIVARIATE ANALYSIS I (3)
- STA 662 RESAMPLING AND RELATED METHODS (3)
- CPH 664 (3) Design and Analysis of Clinical Trials
- STA 665 ANALYSIS OF CATEGORICAL DATA (3)

Any course on this list NOT required for the chosen track may be used as an elective. Thus, for example, STA 665 would count as an elective for the Mathematical Statistics track, but it is a track requirement for the Biostatistics track. Similarly, STA 624 would be an elective for the Biostatistics track but is a track requirement for the Mathematical Statistics track.

A student who takes both STA 653 and CPH 664 may only receive credit towards the degree for one of these two courses.

All students, master's and doctoral, will be required to take part in an internship program. This will usually consist of teaching (three or six semester hours) or an equivalent amount of work in a research assistantship working with researchers across campus.

Statistics, PhD

The Department of Statistics offers programs of study leading to the degrees of Master of Science (Plan A or B available), Doctor of Philosophy, and Master of Applied Statistics (Online). The M.S. degree is professionally oriented for the student who plans a career in government, business or industry and is preparatory for the Ph.D. The Ph.D. program offers a broad training in both statistical theory and methods while affording options to suit the student's interests. The statistics Ph.D. is well-suited for academic, business, government and industrial positions. In addition to formal course work and research training, the advanced student has opportunities to gain valuable practical experience by participating in consulting activities under faculty supervision. Master of Applied Statistics is an innovative online professional graduate degree which is designed to train professional, practice-oriented statisticians who have both data analytic and computing skills.

Both, the M.S. and the Ph.D. program offer a Mathematical Statistics track, as well as a Biostatistics track. The latter tracks are designed for students who envision a future at the interface of Statistics and the Life Sciences.

Course work is available in areas associated with statistics such as biological modeling, probability, inference, experimental design and analysis, computational statistics, nonparametric methods, Bayesian

analysis, mixed modeling, multivariate analysis, survival analysis, clinical trials, and many other selected topics of the student's choice.

The University of Kentucky is represented on the Committee on Statistics of the Southern Regional Education Board.

Admission Requirements

Students with an undergraduate major in any of the mathematical, physical, biological, social or applied sciences are encouraged to apply. The minimum GRE and GPA admissions requirements for the M.S. and Ph.D. programs in Statistics are the same as for the Graduate School. However, the number of admissions is limited and admissions decisions are made on a competitive basis. All M.S. applicants must have successfully completed a three or four semester sequence in calculus and a course in linear algebra and have good communication skills. In addition, all Ph.D. applicants must have mastered the equivalent of MA 471G. All Master of Applied Statistics applicants must have completed two semesters of calculus and a course in statistical methodology. Students wishing to apply for teaching assistantships and/or fellowships must submit three letters of recommendation. Applicants wishing to be admitted directly to the Ph.D. program must have an M.S. in Statistics and the permission of the Director of Graduate Studies.

Please see the departmental website for up-to-date information and answers to frequently asked questions about the admissions process.

Degree Requirements

The core curriculum in statistics is designed to provide doctoral candidates with a firm foundation in probability theory, inference, and classical methodology. In addition, the theory and application of computational statistics, biostatistics, and state-of-the-art inferential procedures are an integral part of the core curriculum.

Students in the doctoral program in statistics will choose one of two areas of specialization, 1) mathematical statistics/probability or 2) biostatistics. The requirements for these areas of specialization are:

Mathematical Statistics/Probability

- STA 701 ADVANCED STATISTICAL INFERENCE I
- STA 703 ADVANCED PROBABILITY
- STA 705 ADVANCED COMPUTATIONAL INFERENCE
- STA 707 ADVANCED DATA ANALYSIS
- STA 702 ADVANCED STATISTICAL INFERENCE II

Biostatistics

- STA 701 ADVANCED STATISTICAL INFERENCE I

- STA 703 ADVANCED PROBABILITY
- STA 705 ADVANCED COMPUTATIONAL INFERENCE
- STA 707 ADVANCED DATA ANALYSIS
- STA 709 ADVANCED SURVIVAL ANALYSIS

All students must take an additional six elective courses chosen by the student and approved by the DGS. These courses must be chosen from among STA 612 , STA 616, STA 621 , STA 624 , STA 626 , STA 630 , STA 635 , STA 643 , STA 644 , STA 653 , STA 661 , STA 662 , STA 665 , CPH 631, CPH 636, and CPH 664. STA 695 will also be considered on a case-by-case basis. If a student completes both STA 702 and STA 709 , the student may choose their official track and count the non-required course as an elective. Note that STA 715 (reading course) may not be used to satisfy elective requirements. Students must successfully complete a common written exam over STA 701 and STA 703 plus respective prerequisites. A student who takes both STA 653 and CPH 664, may only receive credit towards the degree for one of these two courses.

Students must pass a uniform written exam over STA 701 and STA 703 plus respective prerequisites. This exam will normally be offered in January and students will usually sit for the written examination at the beginning of the Spring semester in the third year of the program. The uniform exam can be repeated once. After completion of tract course requirements and successful completion of the written exam, students must also successfully complete an oral qualifying exam which is scheduled through the Graduate School and administered by the student's advisory committee. A significant part of this exam is to be a dissertation proposal.

Areas of current research interest can be found by going to the Department of Statistics faculty web page <https://stat.as.uky.edu/>.

All students, master's and doctoral, will be required to take part in an internship program. This will usually consist of teaching (three or six semester hours) or an equivalent amount of work in a research assistantship working with researchers across campus.

Strategic Human Resource Management and Analytics, MS

The Master of Science in Strategic Human Resource Management and Analytics (MS-SHRMA) offered in the Gatton College of Business and Economics prepares students with the knowledge, skills, and abilities needed to elevate a career in HR. In addition to fundamental HR courses, students will be exposed to coursework in HR-based analytics (people analytics, organizational network analysis, research methods, and HRIS) as well as strategic HR (strategic planning and integration, change management, and negotiations and conflict resolution). The program includes an experiential capstone course giving students the opportunity to apply principles and techniques learned in their coursework to solve real organizational problems.

Admission Requirements

- Bachelor's degree
- Minimum undergraduate GPA of 2.75

- Information for three references
- Interview (upon request)
- Current resume or CV

Degree Requirements

30 total credit hours consisting of:

- 24 required credit hours (MGT 650 MGT 651 MGT 652 MGT 653 MGT 660 MGT 667 MGT 668 MGT 670)
- 3 elective credit hours in strategic HR (MGT 612 or MGT 661)
- 3 elective credit hours in HR analytics (MGT 663 or MGT 664)
- Other elective courses may also apply with DGS permission
- Academic performance consistent with Graduate School standards pertaining to individual courses and overall GPA

Further program details can be found at <https://gatton.uky.edu/programs/masters/master-science-strategic-human-resources-management-and-analytics>

Stream and Watershed Science Certificate

The Stream and Watershed Science graduate certificate provides students with an understanding of the complex physical, biological and social systems involved in stream and watershed related issues. The certificate has an interdisciplinary focus and is administered by faculty in Biosystems and Agricultural Engineering with an advisory committee consisting of faculty representatives from the College of Agriculture, Food and Environment, College of Arts and Sciences, and College of Engineering; the Center for Applied Energy Research; the Gatton College of Business and Economics; and the Graduate School. Students may earn the certificate while making normal progress towards attainment of an MS, MA or PhD degree or while enrolled in post-baccalaureate status.

Structural Engineering Certificate

Expand and deepen your expertise in structural engineering analysis and design. The online Graduate Certificate in Structural Engineering is designed to provide all engineering students with core knowledge in prestressed concrete, steel structures and matrix structural analysis. The courses will be beneficial to current engineering students and practicing engineers. The Certificate offers three (3) courses, 3-credit hours each, to provide technical skills required to develop more sustainable and resilient infrastructure. The courses can be applied toward graduate degrees in civil or other engineering fields. Additionally, each course can provide significant professional development hours that potentially satisfy a state's Engineering professional licensing requirements.

Studies in Higher Education, PhD

The PhD Program Studies in Higher Education requires research on some aspect of higher education, broadly defined. Students may select an area of concentration from the history and philosophy of higher education, the socio-cultural study of higher education, legal and organizational study of higher education, or research, measurement, and evaluation in higher education. Ph.D. dissertations are expected to advance knowledge in the field and/or further develop existing theory.

In addition to the above areas of concentration, the Studies in Higher Education PhD also has two optional Specializations:

- A PhD Studies in Higher Education specialization in Institutional Research (SHED-IR) prepares students to identify information needs; collect, analyze, interpret, and report data and information for planning and evaluation; and assist organizations in utilizing these data and information to make informed decisions.
- A PhD Studies in Higher Education specialization in Diversity, Equity, & Inclusion (SHED-DEI) prepares students for high-level administrative positions in diversity, equity, and inclusiveness leadership in higher education settings. This specialization includes completion of a nine-credit Graduate Certificate in Senior Diversity Officer Leadership.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A master's degree or equivalent level of coursework
- A statement of purpose describing the student's intellectual and professional goals for completing the program. Applicants are advised to clearly indicate the areas of coursework and research they wish to pursue.
- For those wishing to specialize in Institutional Research or Diversity, Equity, & Inclusion, an additional application essay is required.
- Four letters of reference with at least two from referees familiar with the students' academic work
- Resume or Curriculum Vitae
- Writing sample demonstrating academic writing (e.g. chapter of master's thesis, course paper, scholarly essay)
- Application Deadlines October 1st and February 1st

Degree Requirements

- 43 Credit hours
- All EPE students are required to take EPE 601 PROSEMINAR (1 credit hour) during their first semester of study in the department.
- All PhD Students are required to complete 12 hours of research coursework chosen in consultation with their advisor
- All SHED doctoral students build a program of study consisting of the above 12 hours of research coursework, 18 hours of coursework in their concentration, and 12 hours of contextual study. All courses are chosen in consultation with their advisory committee. This individualized program provides both content and conceptual strength to identify compelling research questions in the field of higher education writ large. A specialization is not required.
- The SHED-Institutional Research Specialization includes EPE 560 ASSESSMENT AND SCHOOL DATA ANALYSIS, EPE 619 SURVEY RESEARCH METHODS IN EDUCATION (SUBTITLE REQUIRED), EPE 620 TOPICS AND METHODS OF EVALUATION, EPE 663 FIELD STUDIES IN EDUCATIONAL INSTITUTIONS or EPE 797 HISTORICAL RESEARCH ON EDUCATION, and an internship (EPE 790). These courses can be taken as part of the research requirement or concentration and will be complemented by the student's choice of electives.
- The SHED-Diversity Equity & Inclusion Specialization includes EPE 751 STRATEGY, STRUCTURE, & CHANGE MANAGEMENT FOR SENIOR DIVERSITY LEADERSHIP, EPE 752 POLICY & PROFESSIONAL PRACTICE FOR SENIOR DIVERSITY LEADERSHIP, and a choice of EDL 701, EDL 702, or EDL 703 courses on organizational change and leadership. These courses make up nine of the 18 hours of concentration.
- A student's program of study may vary from this structure with approval from their program committee.

Education.uky.edu/EPE

Substance Use Disorders Certificate

The Substance Use Disorders Certificate is a 9 credit hour and 100% online graduate certificate which is taught by experts with years of diverse social work experience. The Substance Use Disorders certificate will deepen your understanding and ability to provide evidence-informed assessment and effective intervention related to substance misuse.

Students will also gain valuable hands-on experience through an advanced practicum designed to improve your assessment and intervention skills related to substance misuse.

Supply Chain Management, MS

The Master of Science with a major in Supply Chain Management program is offered by the Department of Marketing and Supply Chain, Gatton College of Business and Economics. The first and only program of its kind in Kentucky, the MSSCM degree prepares students for a professional career in the operations and supply chain management field. It is a one-year, 30-credit hour program that blends end-to-end supply chain

concepts like strategic sourcing and channel management with big data analytics, cross-functional business knowledge, and hands-on, industry experience. It offers small class sizes and individual faculty attention.

Students learn to apply analytical, critical and logical reasoning skills to solve real-world supply chain challenges. They also learn to use business application software to assist decision making in a global supply chain setting. In addition, the program offer students opportunities to work with Gatton's industry partners and apply knowledge and skills in a capstone project. It is designed to prepare students for many professions in supply chain management, including general and operations manager, industrial production manager, purchasing manager, transportation, storage and distribution manager, logistician, business operations specialist, and operations research analyst.

Admission Requirements

- Bachelor's degree in any major from a 4-year college with a minimum undergraduate GPA of 2.75.
- Students are required to have completed and earned a C or above in at least one college level statistic course, such as STA 296 (Statistical Methods), STA 381 (Engineering Statistics) or ECO 391 (Economic and Business Statistics).
- International students need to submit TOEFL or IELTS scores. The minimum acceptable TOEFL score is 550 (paper-based), 213 (computer-based), or 79 (internet-based). The minimum IELTS score is 6.5.

Degree Requirements

Minimum 30 credits are required to graduate from the program. There are nine required core courses with 27-credits:

- MKT 630 SUPPLY CHAIN FUNDAMENTALS AND STRATEGY
- MKT 631 PRODUCTION AND OPERATIONS MANAGEMENT
- MKT 632 SUPPLY CHAIN MODELING & ANALYSIS
- MKT 633 APPLIED DATA ANALYTICS
- MKT 634 QUALITY MANAGEMENT & LEAN OPERATIONS
- MKT 635 LOGISTICS MANAGEMENT
- MKT 636 SOURCING, PURCHASING & CONTRACT MANAGEMENT
- MKT 637 NEGOTIATION IN THE SUPPLY CHAIN
- MKT 740 INDUSTRY PROJECT

Choose from the following list for one elective course (3-credits):

- MFS 613 SUSTAINABILITY, ETHICS, AND LEADERSHIP IN MANUFACTURING ORGANIZATIONS
- SCE 614 SUSTAINABLE PRODUCTION SYSTEMS AND SUPPLY CHAINS
- MFS 606 GLOBAL ISSUES IN MANUFACTURING
- MKT 530 SERVICES MARKETING MANAGEMENT
- MGT 610 GLOBAL MANAGEMENT
- MGT 697 LEADERSHIP, COMMUNICATIONS & ETHICS
- CPH 600 HEALTH SERVICES AND SYSTEMS ORGANIZATION

- PA 602 STRATEGIC PLANNING AND ORGANIZATIONAL CHANGE IN THE PUBLIC AND NON-PROFIT SECTORS
- HMT 588 STRATEGIC MANAGEMENT IN THE HOSPITALITY & FOOD SERVICE INDUSTRY

Program website: <https://gatton.uky.edu/programs/masters/master-science-supply-chain>

Teacher Preparation Program in Visual Impairments, MSEDU

The Department of Early Childhood, Special Education, & Counselor Education offers a Master of Science degree in the Teacher Preparation Program in Visual Impairments. The program uses a hybrid course delivery model including both face-to-face and online courses. Face-to-face courses occur on weekends and in the summer at either the Kentucky School for the Blind (KSB) in Louisville or at the University of Kentucky in Lexington.

A Teacher of the Visually Impaired (TVI) educates children in a variety of learning and instructional topics including: assessing and evaluating educational strengths and needs including functional vision and learning media assessments; determining appropriate services and instructional goals; and providing training in the use of adapted materials and devices. A TVI also provides direct instruction in the expanded core curriculum which includes compensatory academic skills, career exploration, sensory efficiency skills, social skills, assistive technology, recreation and leisure activities, self-determination skills, and independent living skills.

The University of Kentucky has the distinction of offering the only program to train teachers of the visually impaired in Kentucky.

This degree does not necessarily lead to teacher certification. Candidates should contact the program's Director of Graduate Studies (DGS) about additional teacher certification requirements. Information is also available on the program website at: <https://education.uky.edu/edsrsrc-programs/teacher-prep-visual-impairments/>

Admission Requirements

Applicants must have completed a bachelor's degree in any field with a minimum of 2.75 overall or 3.0 GPA in the last 30 credit hours to apply.

Applications must include the following:

- Resume/CV
- Personal Statement (1-2 pages on why you want to be a TVI)
- Official transcripts from all previous universities or colleges
- Three (3) completed reference forms or letters

Degree Requirements

33 credit hours with an overall GPA of 3.0

- BVI 580 INTRODUCTION TO VISUAL IMPAIRMENTS (3)
- BVI 582 ANATOMY AND PHYSIOLOGY OF THE EYE (3)
- BVI 583 BRAILLE CODES I (3)
- BVI 611 TEACHING METHODS FOR STUDENTS WITH VISUAL IMPAIRMENTS (3)
- BVI 614 BRAILLE CODES II (3)
- BVI 615 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH VISUAL IMPAIRMENTS (3)
- BVI 616 EXPANDED CORE CURRICULUM FOR BLIND AND VISUALLY IMPAIRED (3)
- BVI 617 VISUAL IMPAIRMENTS AND MULTIPLE DISABILITIES (3)
- BVI 618 ASSESSMENT OF STUDENTS WITH VISUAL IMPAIRMENTS (3)
- BVI 710 STUDENT TEACHING/FIELD EXPERIENCE IN VISUAL IMPAIRMENTS (6)

Successful completion of field experience(s)

- Refer to program website for specific requirements

Satisfactory demonstration of all program standards

Program website: <https://education.uky.edu/edsrc-programs/teacher-prep-visual-impairments/>

Teaching English as a Second Language Certificate

The objectives of the 12-credit hour graduate certificate are three-fold:

1. Prepare teachers skilled in supporting the development of English language learners
2. Provide candidates with a rigorous introduction to the core disciplines in English language teaching: linguistics, language acquisition and pedagogy
3. Provide candidates with field-based experiences and in-class teaching opportunities in order to develop practical knowledge and skills of second language classroom teaching practices.

Teaching English as a Second Language, MA

The Department of Modern and Classical Languages, Literatures and Cultures offers a graduate program leading to the M.A. degree in Teaching English as a Second Language - MATESL (36 cr.). The general goal of graduate work in the program is to provide students with a quality teacher education program that will prepare candidates for a satisfying career in language teaching.

Admission Requirements

- Transcript showing a Bachelor's degree with a minimum GPA of 2.75. If applicant has taken graduate courses, a minimum GPA of 3.0 is required.
- Three Letters of Recommendation
- Essay
- TOEFL score: 89 ibt

Degree Requirements

The MA degree requires a total of 36 graduate credit hours, distributed across the required courses below. This course work includes two teaching practica, a supervised internship and the TESL Professional Portfolio.

- TSL 560 LITERACY DEVELOPMENT IN THE ESL CLASSROOM (3 cr.)
- MCL 510 TEACHING METHODS: YOUNG LEARNERS & BEGINNING LEVEL STUDENTS (3cr.)
- TSL 515 ENGLISH LANGUAGE DEVELOPMENT IN THE CONTENT CLASSROOM (3 cr.) Or MCL 665 SECOND LANGUAGE CURRICULUM & ASSESSMENT (3 cr.)
- MCL 517 SECOND LANGUAGE ACQUISITION / LIN 517 SPECIAL TOPICS IN LINGUISTICS (SUBTITLE REQUIRED) (3cr.)
- MCL 575 INTRODUCTION TO LINGUISTICS AND LANGUAGE STRUCTURE (3cr.)
- MCL 610 WORLD LANGUAGE METHODS 9-12 (3 cr.)
- TSL 675 ENGLISH GRAMMAR: ANALYSIS & PEDAGOGY (3 cr.)
- MCL 690 CULTURE, COGNITION, & SECOND LANGUAGE (3 cr.)
- TSL 697 ESL INTERNSHIP (9 cr.)
- One Elective: 500/600 level course from Education, Linguistics or related field (3 cr.)

TESL Website: <https://mcl.as.uky.edu/tesl>

Teaching in Culturally and Linguistically Diverse Classrooms Certificate

The graduate certificate in Teaching in Culturally and Linguistically Diverse Classrooms addresses increasing demand to prepare teachers to better address the learning needs of K-12 classrooms with increasing cultural and linguistic diversity among students. Certificate coursework takes a comprehensive approach to supporting English Learners and other historically under-served populations by addressing aspects of cultural and linguistic diversity across the curriculum within a regular classroom context. Coursework supports students in developing a knowledge base, planning, and application of strategies related to language and literacy development, second-language acquisition, classroom relationships, family collaboration, assessment, instruction, discourse, and socio-political consciousness.

Teaching World Languages, MA

The goal of the Master of Arts in Teaching World Languages (MATWL) program is to prepare the highest quality language educators for the state of Kentucky and beyond. The MATWL program is designed to prepare candidates who will possess a high level of content knowledge, excel in pedagogy, and perform as competent professional language educators.

Typical applicants include anyone with a BA from a US institution or the equivalent, teachers who are employed with an emergency certification and second-career professionals as well as teachers seeking professional development.

The MATWL program offers a number of advantages for applicants in that it can be completed in one year or can be extended to multiple years for those who are unable to take the required courses as full-time students. Students complete their coursework with a field internship in a public school where they teach with a cooperating teacher.

The program is offered in the Department of Modern and Classical Languages, Literatures, and Cultures in cooperation with the Department of Hispanic Studies and the College of Education. MATWL graduates can specialize in Arabic, Chinese, French, German, Latin, Japanese, Russian, or Spanish.

Admission Requirements

Applicants for admission must be concurrently approved by the Graduate School and the Teacher Education Program (TEP). Applicants are reviewed by the Director the MATWL Program in consultation with the MATWL Program Faculty Committee.

Candidates seeking admission to the MATWL program must meet the following requirements.

- Language proficiency. Students must demonstrate proficiency in the target language with a rating of at least Advanced Low on the ACTFL Oral Proficiency Interview (Intermediate High for Russian, Chinese, & Arabic). Oral Proficiency Interviews can be taken through ACTFL or by contacting the director to schedule one for a particular language). Candidates must also document a course of study that reflects mastery of language structure, a broad range of modern and classical literature, and the history of the relevant culture(s). Candidates in Latin must document a course of study that reflects mastery of language structure, knowledge of the literature, history, mythology, and culture of ancient Rome and Greece, and proficiency in oral reading.
- Undergraduate BA in the Language of study. Documentation of such a course of study typically consists of an undergraduate major in a world language or equivalent. Although each language area has its unique requirements, candidates typically have 48 to 66 credit hours in their academic teaching specialties.
- A minimum 2.75 overall undergraduate GPA, a minimum 3.0 GPA in the language-specific field, and a minimum 3.0 GPA in any previous graduate work
- A passing GRE Score. Quantitative: 143; Verbal 150; Analytical Writing: 4.0
- 200 hours of experience with children 6 to 13 years of age and 14- to 18-year old adolescents as well as community and cross-cultural experience.

Degree Requirements

Total credit hours: 36 credit hours

Core requirements. Students take the following courses.

- MCL 510 TEACHING METHODS: YOUNG LEARNERS & BEGINNING LEVEL STUDENTS (3 credits)
- MCL 610 WORLD LANGUAGE METHODS 9-12 (3 credits)
- EDC 610 DISCIPLINE AND CLASSROOM MANAGEMENT (3 credits)
- EDS 600 SURVEY OF SPECIAL EDUCATION (3 credits)
- MCL 690 CULTURE, COGNITION, & SECOND LANGUAGE or an EDP course at the 500- or 600-level (3 credits)
- MCL 601 WORLD LANGUAGE TEACHING INTERNSHIP P-12 (12 credits)
- Students also take 3 courses (9 credits) of their specialty language at the graduate level. These are generally taken in the Fall of their first semester.
- Students complete their student teaching (MCL 601 Teaching Internship) in two placements-one at the elementary level, and one at the 6-12 level-at local schools in the Spring semester.

<https://mcl.as.uky.edu/matwl>

Telehealth Certificate

This one-year 9-credit online interprofessional certificate methodically prepares you to be a leader in the development, implementation, and evaluation of telehealth models. Course content will cover information relevant to telehealth use across generations and associated contexts of care (e.g., medical, schools, home). Upon completion of the certificate, you will be able to:

1. Implement telehealth in a variety of settings with diverse patient populations across the lifespan in accordance with professional ethics and state and federal rules and regulations.
2. Train support personnel to assist the healthcare provider and patient during a telehealth encounter.
3. Develop, market, and evaluate a telehealth program considering multiple levels, including consumer, provider, organization, community, and policy.
4. Use interprofessional practices within a telehealth model.

Tobacco Treatment Specialist Certificate

The Tobacco Treatment Specialist Graduate Certificate provides extensive knowledge and counseling skills training for treating tobacco dependence, the number one cause of preventable death and disease. The certificate content is divided into three 3-credit hour courses (NUR 621, 622 and 623) and is valuable to persons working in healthcare, including behavioral health, health promotion and prevention, and public health. Participants will critically review the literature on tobacco products and use, health effects, treatment, prevention, and policy. The certificate is an extension of the accredited BREATHE Tobacco Treatment

Specialist Training. Successful completion of this program will provide participants with a certificate that can be used as eligibility to apply for a national certificate in tobacco treatment practice.

Toxicology and Cancer Biology, PhD

The Department of Toxicology and Cancer Biology is a multidisciplinary unit for research, graduate education, and professional training in the broad areas of Toxicology and Cancer Biology. The program was founded in 1969 in the Graduate School, as one of nation's first Ph.D. programs in Toxicology and moved to College of Medicine (COM) in 2004. Our education mission is to provide students with an education in Toxicology and Cancer Biology that is based on an understanding of biochemistry, physiology, molecular/cell biology, genetics and metabolism, coupled with in-depth research experience on the mechanisms by which specific agents induce toxicity, and/or the basic cellular processes upon which environmental agents impact to cause disease. In addition, the department provides the only Master of Forensic Toxicology and Analytical Genetics (or degree of comparable nature) in the state and it is only the fifth such professional master's degree in the field of forensics in the nation.

The department is housed in the Health Sciences Research Building in the Medical Center within easy walking distance of all major research units and colleges. Excellent research support facilities are available, including transgenic mouse, macromolecular structure, mass spectrometry, nuclear magnetic resonance, proteomics, genomics, and metabolomics.

Our department consists of tenured/tenure track Core Faculty with a primary appointment in Toxicology and Cancer Biology, and is enhanced by faculty who have Joint Appointments in the department, but whose primary appointments are in Departments and Colleges across the University. The Department of Toxicology and Cancer Biology has graduated more than 150 PhDs in Toxicology who have gone on to careers in academia, government, such as the Environmental Protection Agency (EPA) and the Food and Drug Administration (FDA), and in the pharmaceutical and chemical industry. The department maintains a robust extramurally supported training environment, including an NIEHS T32 training grant for doctoral students in toxicology, which has been continuously funded since 1990 and has been renewed for funding until 2021.

The Ph.D. program in Toxicology is ranked in the top quartile in the National Research Council survey of doctoral programs in Toxicology. For more information on the Ph.D. program, please visit <https://toxicology.med.uky.edu/graduate-program>

Admission Requirements

Applicants must meet the following requirements for admission to the University of Kentucky Graduate School and the Toxicology and Cancer Biology program.

- An appropriate degree (e.g., Chemistry, Biological Sciences) from an accredited college or university.
- A minimum grade point average of 3.0 on a 4.0 scale.
- A Graduate Record Examination (GRE) score is not required.
- For international applicants, the minimum acceptable TOFEL score is 550 (paper-based), 213 (computer-based), or 79 (internet-based). The minimum IELTS score is 6.5.

More information on how to apply can be found here <https://toxicology.med.uky.edu/graduate-program>

Degree Requirements

The Ph.D. degree has no formal course requirements.

A proposed curriculum, prepared by the Chair of Advisory Committee (i.e., the student's mentor) in consultation with the student, should be approved by the student's Advisory Committee by December 15 in the students' second year of study.

Toxicology, MS

The Department of Toxicology and Cancer Biology is a multidisciplinary unit for research, graduate education, and professional training in the broad areas of Toxicology and Cancer Biology. The program was founded in 1969 in the Graduate School, as one of nation's first Ph.D. programs in Toxicology and moved to College of Medicine (COM) in 2004. Our education mission is to provide students with an education in Toxicology and Cancer Biology that is based on an understanding of biochemistry, physiology, molecular/cell biology, genetics and metabolism, coupled with in-depth research experience on the mechanisms by which specific agents induce toxicity, and/or the basic cellular processes upon which environmental agents impact to cause disease. In addition, the department provides the only Master of Forensic Toxicology and Analytical Genetics (or degree of comparable nature) in the state and it is only the fifth such professional master's degree in the field of forensics in the nation.

The department is housed in the Health Sciences Research Building in the Medical Center within easy walking distance of all major research units and colleges. Excellent research support facilities are available, including transgenic mouse, macromolecular structure, mass spectrometry, nuclear magnetic resonance, proteomics, genomics, and metabolomics.

Our department consists of tenured/tenure track Core Faculty with a primary appointment in Toxicology and Cancer Biology, and is enhanced by faculty who have Joint Appointments in the department, but whose primary appointments are in Departments and Colleges across the University. The Department of Toxicology and Cancer Biology has graduated more than 150 PhDs in Toxicology who have gone on to careers in academia, government, such as the Environmental Protection Agency (EPA) and the Food and Drug Administration (FDA), and in the pharmaceutical and chemical industry. The department maintains a robust extramurally supported training environment, including an NIEHS T32 training grant for doctoral students in toxicology, which has been continuously funded since 1990 and has been renewed for funding until 2021.

For more information please visit <https://toxicology.med.uky.edu/tox-graduate-research-masters-degree>

Admission Requirements

Applicants must meet the following requirements for admission to the University of Kentucky Graduate School and the Toxicology and Cancer Biology program.

- An appropriate degree (e.g., Chemistry, Biological Sciences) from an accredited college or university.

- A minimum grade point average of 3.0 on a 4.0 scale.
- A Graduate Record Examination (GRE) score is not required.
- For international applicants, the minimum acceptable TOFEL score is 550 (paper-based), 213 (computer-based), or 79 (internet-based). The minimum IELTS score is 6.5.

More information on how to apply can be found here <https://toxicology.med.uky.edu/graduate-program>

Degree Requirements

Complete 20 hours of Core Courses:

- IBS 601 BIOMOLECULES AND METABOLISM (3)
- IBS 602 MOLECULAR BIOLOGY AND GENETICS (3)
- IBS 603 CELL BIOLOGY AND SIGNALING (3)
- TOX 509 ENVIRONMENTAL AND REGULATORY TOXICOLOGY (2)
- TOX 600 ETHICS IN SCIENTIFIC RESEARCH (1)
- TOX 680 MOLECULAR TOXICOLOGY AND CARCINOGENESIS (3)
- IBS 611 PRACTICAL STATISTICS (1)
- TOX 770 TOXICOLOGY AND CANCER BIOLOGY SEMINAR (4 semesters X 1 credit) (4)

Plan A (Thesis) Minimum Hours Requirement: Complete a minimum of 30 hours of graduate courses to include, if desired, no more than 6 credit hours of TOX 768 and submission of a Thesis.

Plan B (non-thesis) Minimum Hours Requirement: Earn a minimum of 30 hours of graduate courses.

Urban and Environmental Design, MS

The Master of Science in Urban & Environmental Design (MUED) at the UK College of Design is dedicated to helping students think critically about emerging urban and environmental design problems through real-world projects and future-oriented ideas. The one-year program introduces students to the complexity of urban and rural environments - from the varying spectrum of stakeholders to the bounds of existing infrastructures - and promotes an interdisciplinary approach to designing sustainable communities.

The curriculum is studio-based to develop an ethic of collaboration and critical thinking among students, faculty and community members. From these relationships, projects emerge that seek inventive ideas to specific design challenges. Students take a diversified sequence of courses that includes history and theory of urban and environmental design, visualization techniques, policy analysis, and socioeconomic research.

The MUED offers flexible degree options for a variety of student backgrounds and design experience levels. Students with no formal design background are encouraged to apply.

Admission Requirements

- Portfolio: The Master of Science in Urban and Environmental Design (MUED) offers flexible degree options for a variety of student backgrounds and design experience levels. Students with no formal design background are encouraged to apply.
 - OPTION 1 is for students with both a prior design degree. This option can be completed in one year (Fall, Spring, and Summer). A portfolio is required to apply.
 - OPTION 2 is for students with no formal design background and requires a foundational studio sequence as a prerequisite for admission to the MUED program. This option can be completed in two years and does not require a portfolio for admission.
- GRE
- Three letters of recommendation
- Application Deadlines:
 - Summer: March 1
 - Fall: March 1

Degree Requirements

MUED Curriculum (Prior Design Degree)

Semester 1 Fall

- UED 601 URBAN AND ENVIRONMENTAL DESIGN STUDIO I 5 hours
- UED 611 VISUALIZATION AND REPRESENTATION 2 hours
- Elective 3 hours

Semester 2 Spring

- UED 602 URBAN AND ENVIRONMENTAL DESIGN STUDIO II 5 hours
- UED 651 HISTORY AND THEORY OF URBAN AND ENVIRONMENTAL DESIGN 3 hours
- HP 602 HISTORIC PRESERVATION LAW 3 hours
- Elective 3 hours

Semester 3 Summer

- UED 612 RESEARCH DESIGN AND METHODS IN URBAN AND ENVIRONMENTAL DESIGN 1 hour
- UED 701 URBAN AND ENVIRONMENTAL DESIGN PROJECT 5 hours (students should enroll in this course if they are completing a design capstone project)

- UED 711 URBAN AND ENVIRONMENTAL DESIGN THESIS 5 hours (students should enroll in this course if they are completing a design thesis)

Total: 30 hours

MUED Curriculum (Non-Design Background)

Semester 1 Fall

- UED 511 URBAN AND ENVIRONMENTAL DESIGN STUDIO PRIMER 5 hours
- UED 611 VISUALIZATION AND REPRESENTATION 2 hours
- UED 501 INTRODUCTION TO URBAN AND ENVIRONMENTAL DESIGN 3 hours

Semester 2 Spring

- UED 601 URBAN AND ENVIRONMENTAL DESIGN STUDIO I 5 hours
- HP 602 HISTORIC PRESERVATION LAW 3 hours

Semester 3 Fall

- UED 602 URBAN AND ENVIRONMENTAL DESIGN STUDIO II 5 hours
- UED 651 HISTORY AND THEORY OF URBAN AND ENVIRONMENTAL DESIGN 3 hours
- Elective 3 hours

Semester 4 Spring

- UED 612 RESEARCH DESIGN AND METHODS IN URBAN AND ENVIRONMENTAL DESIGN 1 hour
- Elective 3 hours
- UED 701 URBAN AND ENVIRONMENTAL DESIGN PROJECT 5 hours (students should enroll in this course if they are completing a design capstone project)
- UED 711 URBAN AND ENVIRONMENTAL DESIGN THESIS 5 hours (students should enroll in this course if they are completing a design thesis)

Total: 38 hours

Veterinary Science, MS

The overall mission of the Veterinary Science graduate program is to train students to become creative and critical thinking scientists with the contemporary skills and knowledge to perform independent research and to effectively communicate their results. The primary goal of research in the Veterinary Science program is to improve our understanding of the biology of Equidae, with emphasis placed on investigating the causes and mechanisms that affect the production and performance of horses, regardless of breed.

Veterinary Science offers both the Master of Science (MS) and the Doctor of Philosophy (PhD) degrees, with specialization in infectious disease, parasitology, immunology, genetics, reproductive physiology, pharmacology, and musculoskeletal sciences. Each of these subspecialties has a general emphasis on the horse.

Admission Requirements

Applicants need a strong academic background with undergraduate course preparation in biology, chemistry and mathematics. Students accepted into the program should have an appropriate degree (i.e., in a STEM discipline) from an accredited institution, a minimum grade point average (GPA) of 3.0 on a 4.0 scale and a combined score (verbal plus quantitative) on the Graduate Record Examination (GRE) of not less than 300. Applicants with lesser qualifications will be accepted only on the recommendation of a graduate faculty member who is willing to support financially and serve as the research advisor for the student and with the approval of our full graduate faculty.

Degree Requirements

Students enrolled in the MS program must meet the Graduate School Requirements of at least 30 credit hours of coursework, to include 6 credit hours of VS 768 (Residence Credit for the Master's Degree).

Students pursuing both the MS and PhD in Veterinary Science must take two semesters of graduate-level biochemistry/molecular/cell biology (selected from CHE 550 & CHE 552 OR IBS 601 IBS 602 IBS 603 IBS 606) and one semester of graduate-level statistics (STA 570 or STA 580) or demonstrate equivalent coursework completed elsewhere. Students in the MS program must enroll in VS 770 VETERINARY SCIENCE SEMINAR, and give a presentation in at least one semester. Students in the PhD program must enroll in VS 770 and give presentations in at least 2 semesters. As well, VS 600 ETHICS IN SCIENTIFIC RESEARCH, is strongly recommended.

Any additional coursework is determined by each student in concert with their major advisor.

<http://vetsci.ca.uky.edu/content/graduate-education>

Veterinary Science, PhD

The overall mission of the Veterinary Science graduate program is to train students to become creative and critical thinking scientists with the contemporary skills and knowledge to perform independent research and to effectively communicate their results. The primary goal of research in the Veterinary Science program is to improve our understanding of the biology of Equidae, with emphasis placed on investigating the causes and mechanisms that affect the production and performance of horses, regardless of breed.

Veterinary Science offers both the Master of Science (MS) and the Doctor of Philosophy (PhD) degrees, with specialization in infectious disease, parasitology, immunology, genetics, reproductive physiology, pharmacology, and musculoskeletal sciences. Each of these subspecialties has a general emphasis on the horse.

Admission Requirements

Applicants need a strong academic background with undergraduate course preparation in biology, chemistry and mathematics. Students accepted into the program should have an appropriate degree (i.e., in a STEM discipline) from an accredited institution, a minimum grade point average (GPA) of 3.0 on a 4.0 scale and a combined score (verbal plus quantitative) on the Graduate Record Examination (GRE) of not less than 300. Applicants with lesser qualifications will be accepted only on the recommendation of a graduate faculty member who is willing to support financially and serve as the research advisor for the student and with the approval of our full graduate faculty.

Degree Requirements

Students enrolled in the PhD program need to satisfy 36 credit hours of pre-qualifying residency, followed by at least two semesters of VS 767 (Dissertation Residency Credit; 2 credit hours/semester). For students with an earned Master's or DVM (or equivalent), up to 18 of the 36-hour pre-qualifying requirement may be waived at the discretion of the student's advisory committee, the DGS, and the Dean of the Graduate School.

Students pursuing both the MS and PhD in Veterinary Science must take two semesters of graduate-level biochemistry/molecular/cell biology (selected from CHE 550 & CHE 552 OR IBS 601, IBS 602, IBS 603, IBS 606) and one semester of graduate-level statistics (STA 570 or STA 580) or demonstrate equivalent coursework completed elsewhere. Students in the MS program must enroll in VS 770, Departmental Seminar, and give a presentation in at least one semester. Students in the PhD program must enroll in VS 770 and give presentations in at least 2 semesters. As well, VS 600, Ethics in Scientific Research, is strongly recommended.

Any additional coursework is determined by each student in concert with the major advisor and the PhD advisory committee.

<http://vetsci.ca.uky.edu/content/graduate-education>

Vocal Pedagogy Certificate

In order to increase marketability in higher education and be prepared to meet the challenges of teaching voice in the 21st century, the graduate certificate in Vocal Pedagogy is intended primarily for students pursuing a Master of Music (MM) and Doctor of Musical Arts (DMA) degrees in voice and choral conducting who wish to gain more experience and expertise in the science and art of teaching. The proposed certificate could also be pursued by: 1) college and high school choral conductors interested in vocal health and production; and 2) graduate students in communication disorders in the College of Health Science looking to increase their knowledge and understanding of the singing voice. Many new openings in higher education look favorably toward those candidates with secondary areas of expertise and especially pedagogical training. This certificate could be pursued concurrently with the regular MM and DMS degree program of the school of music. The certificate requires the completion of 15 credit hours.

Programs by Degree

Doctor of Education

Educational Leadership, EDD

- The Doctor of Education (EdD) in Educational Leadership Studies prepares scholar-practitioners to assume leadership roles in diverse educational settings.
- The Doctor of Education (EdD) is an executive, cohort-based program with online courses, qualifying examinations, and dissertation defense.
- The degree consists of 42 minimum course credit hours and a minimum of 4 credits of dissertation residency (does not need to be completed in Kentucky).
- Mixed Methods Action Research (MMAR) design utilized for the dissertation.
- Applicants who plan to seek administrator certification (e.g., school principal, superintendent) can use up to two electives to partially fulfill requirements. However, they must meet all additional requirements imposed by the Kentucky Educational Professional Standards Board.

Admission Requirements

- Earned Masters, from a fully accredited institution, with a 3.5 GPA on a 4.0 scale.
- Transcripts from previous post-secondary institutions.
- Professional Resume
- Personal Statement
- Diversity, Equity & Inclusion Statement
- 3 Recommendations, with at least one academic from practicing scholar, one leadership based from practitioner.
- On-demand writing sample Completed graduate-level basic statistics course by August 15 of the semester of program start.

Degree Requirements

- 42 minimum credits of coursework, 4 minimum credits of dissertation residency. Minimum of 46 credits total.
- 16 courses (eleven 3-credit hour; three 1-credit hour required, two 3-credit hour electives) of pre-dissertation coursework typically earned over 8 semesters including summer.
- Qualifying examination utilizing the MMAR framework.
- Student must remain enrolled in EDL 767 Dissertation Residency Credit from the semester they sit for their Qualifying Examination through semester they defend their dissertation.
- Final dissertation defense.

Educational Policy Studies, Measurement, and Evaluation, EDD

The Ed.D. program in Educational Policy Studies, Measurement, and Evaluation (EPME) provides advanced study for those who seek careers in the administration or evaluation of educational programs in schools, colleges, or other institutional settings. Ed.D. candidates may pursue a variety of research interests including but not limited to institutional research and assessment, educational measurement and evaluation, P-12 educational policy issues, post-secondary education, comparative education, and community/continuing education issues.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A statement of purpose describing the student's intellectual and professional goals for completing the program. Applicants are advised to clearly indicate the areas of coursework and research they wish to pursue.
- Four letters of reference with at least two from referees familiar with the students' academic work
- Resume or Curriculum Vitae
- Writing sample demonstrating academic writing (e.g., chapter of masters thesis, course paper, scholarly essay)
- Rolling Admission, Apply Anytime.

Degree Requirements

- 43 Credit hours or equivalent preparation meeting UK requirements for residency prior to a qualifying exam for doctoral candidacy and a dissertation.
- All EPE students are required to take EPE 601 Proseminar (1 credit hour) during their first semester of study in the department.
- All EPME doctoral students build a program of study consisting of a minimum of 15 hours in a core area of concentration, at least 9 hours of research, and the rest of their hours in supporting coursework chosen in consultation with their advisory committee. Students are encouraged to take multiple courses in contextual studies in education and to take supporting coursework both inside and outside the College of Education.

- A student's program of study may vary from this structure with approval from their program committee.
- The EdD qualifying exam consists of two parts. 1) A literature review building a rationale for a compelling problem of practice must be accepted by the advisory committee followed by 2) the defense of a full research proposal investigating that problem of practice. The defense of proposal represents the official qualifying exam.
- The EdD dissertation requirements are the same as those for the PhD. EdD candidates are encouraged to consider multiple stakeholders and to contextualize their study in a new or emerging problem of practice.

Education.uky.edu/EPE

Instruction and Administration, EDD

The doctorate (Ed.D.) in Instruction & Administration prepares students to conduct research, teach, and/or assume leadership roles in the field of curriculum & instruction. Graduates of this program pursue a variety of career opportunities, including: becoming university faculty in Curriculum & Instruction departments; assuming advanced leadership positions in schools, districts, and state governments; or working for curriculum development companies or in private consulting, among others. Within the Instruction and Administration Ed.D. program, students may specialize in an educational content area within Curriculum & Instruction, or they may study Curriculum & Instruction more broadly. Due to diverse professional outcomes and optional strands of specialization, coursework is planned by the major professor and advisory committee based on the student's background, needs, and professional goals.

Areas of specialization include:

- Instructional Systems Design (ISD)
- Literacy Education
- Social Studies Education

Admission Requirements

Applicants are evaluated holistically, with attention paid to prior educational achievement and professional experience. In addition to the admission requirements set by the Graduate School, departmental requirements include a statement of professional goals, an autobiographical sketch, professional writing samples, and three letters of professional reference. Interviews are frequently requested. All materials may be submitted through The Graduate School's online application process.

Degree Requirements

A listing of curriculum requirements for the degree program providing detail such as the following:

- Minimum of 42 credit hours beyond the master's degree
- All program plans require coursework in the following areas:
 - Curriculum and Instruction
 - Support work inside and/or outside the College of Education
 - Research methodology courses (minimum of 9 semester hours required)
- Students must successfully complete a qualifying examination consisting of both written and oral components and also present a dissertation which is the result of original research. Additionally, doctoral students are encouraged to enhance their doctoral preparation through teaching, research, and other service opportunities that are available through the department and the college.
- Doctoral students in Instruction and Administration may elect to complete graduate certificates as part of their coursework. Graduate certificates in a) Distance Education and b) Teaching in Culturally & Linguistically Diverse Classrooms are offered within the department. Students are also eligible for graduate certificates housed elsewhere, such as the certificate in Research Methods in Education, offered through Educational Policy and Evaluation.

<https://education.uky.edu/edc/graduate/edd/>

Kinesiology and Health Promotion, EDD

The Ed.D. program in Kinesiology and Health Promotion is a high-quality graduate program which aims to respond to the needs of individuals looking to advance their careers. The Ed.D. specialty areas serve professionals from various fields through interdisciplinary and practical experiences, particularly those who desire advanced study to enhance professional knowledge and skills in educational, leadership, industrial, or other appropriate settings. Our program allows students to explore specific career options and engage in experiential learning within a small classroom environment which fosters personal and individual attention. Our goal is to enable all graduate students to become successful in their academic and professional career. The Department of Kinesiology and Health Promotion offers two different specializations (Health Promotion and Physical Education) to further interest in a specific area and/or career. Learn more about each specialization below.

Admission Requirements

- A master's degree or 30 semester hours of approved graduate course work with a 3.0 GPA.
- GRE: Not required
- CV
- Personal Statement: Statement of your professional aspirations and explain how you believe graduate study at the University of Kentucky will enhance your ability to achieve those professional goals. In your statement, provide information about your background, research skills and experiences, personal and professional achievements, and educational, work or life experiences that influenced you and your life goals.

- Writing Sample: Students who have not written a Master's level thesis will be required to submit an example of their research writing. A literature review or project from a completed class are acceptable examples for submission for application. Special circumstances will be considered at the discretion of the applicant's designated potential advisor.
- Four letters of recommendation: At least two must be from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

Degree Requirements

HEALTH PROMOTION SPECIALIZATION

The Ed.D. degree with a specialization in Health Promotion prepares students for a career in teaching/mentoring, consulting, policy development, or other leadership roles focused on individual and population health, evidence-based programming, and application of health behavior theory across diverse populations. With the skills and interdisciplinary knowledge students develop through coursework, independent research, community-engaged work, opportunities for teaching and/or professional service, as well as relationships with faculty mentors, they are prepared to lead in a variety of settings including universities, health promotion agencies at every level, healthcare systems and service organizations, and private industry.

The Ed.D. program utilizes a mentor-based admission process. Therefore, students are strongly encouraged to identify a faculty member with whom they wish to work prior to applying to the program.

Degree Requirements

Our Ed.D. degree with specialization in Health Promotion requires students to complete a minimum of 42 hours of course work. The doctoral degree requires students to complete a core of 9-12 hours of health promotion courses, 9 hours of research/statistics/design courses plus supporting electives for a total of at least 42 hours. Students, with the approval of their advisory committee, select elective course work that will enhance their health promotion knowledge and skills as well as their research skills. Additional information, including possible pre-requisites and electives, can be found on the departmental website: <https://education.uky.edu/khp/grad/>

PHYSICAL EDUCATION SPECIALIZATION

The Physical Education Ed.D. program has a required core of classes and sample of electives with an emphasis in specific areas such as physical education, physical activity promotion, epidemiology, sociology, behavioral science, and public health. The goal is to prepare students to teach courses on physical education methods, physical education curriculum, and physical activity promotion at the undergraduate and graduate level, remain up-to-date on the latest research, network with physical education teacher educators (PETE) from across the country and around the world, and exhibit professional work ethic and behaviors as a PETE student/faculty member.

Degree Requirements

The Ed.D. program has a required core of classes and sample of electives. The student may have an emphasis in specific areas of education. Additional information, including possible pre-requisites and electives, can be found on the departmental website: <https://education.uky.edu/khp/grad>

Doctor of Musical Arts

Musical Arts, DMA

The School of Music offers the Doctor of Musical Arts (D.M.A.) with specialty areas in performance (including choral or instrumental conducting) or composition. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The applicant for the D.M.A. degree is expected to have earned appropriate undergraduate and master's degrees and successfully audition for the faculty.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Applicants for performance degrees must audition. Some areas require a pre-recorded preliminary audition as part of the screening process. Live auditions should be scheduled by contacting the faculty member in charge of the student's performing area or filling out an audition request form on the School of Music web page.

Entrance exams in Music History and Music Theory (written and aural) are given the week before classes begin in the Fall semester to determine whether review classes are necessary in the first semester of study. Admission for all degrees is conditional upon either passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours

Degree Requirements

The Doctor of Musical Arts program offers opportunity for full development as a performer, composer, or teacher of music performance or composition. A thorough background is a prerequisite for admission into the program; doctoral study emphasizes work in adjunct areas of music, related fields, and research as they enhance and support the major area.

Language requirement differs among performance areas. If required and if deficient, a student must enroll in language courses each semester of study until the deficiency is removed. Language classes must be passed with a grade of B or higher.

The student's Advisory Committee must be formed and appointed by the Dean of the Graduate School prior to advance registration for the student's third semester.

Recital requirement differs among performance areas. At least three weeks prior to each recital, the student must do a pre-recital hearing for three members of the applied faculty who must sign and submit a Pre-Recital Hearing Form to be placed in the student's file. The program content of the recitals will be established in cooperation with the student's Advisory Committee. Immediately after each successful recital, a Recital Approval form must be signed by three members of the Advisory Committee and placed in the student's file. The student should complete at least one recital prior to taking the Qualifying Exam.

DMA students are required to pass a Qualifying Exam (QE) upon completion of all coursework. Part I of the QE (History and Theory, 3 hours each) will be given as a common exam early every semester. Students should pass Part I prior to taking Part II of the QE which is the Specialty Area portion (six hours) of the QE. Part III of the QE is the oral exam (2 hours maximum) and should be taken last, after completing Parts I and II successfully.

Requirements for doctoral projects differ among the performance areas. The Project for the D.M.A. specializing in Composition will consist of two parts. Part 1 is a large-scale original composition. The candidate is responsible for arranging a public performance of the work. Part 2 is an in-depth analysis and discussion of the composition. The composition and in-depth written analysis and discussion are to be approved by the Advisory Committee in the same manner as a Ph.D. dissertation. For specific requirements in each performance area, please consult the Graduate Music Handbook posted at https://finearts.uky.edu/sites/default/files/Uploads/Documents/graduate_handbook_2020.pdf

The minimum course requirements for all DMA students beyond the master's degree are as follows:

- MUS 618 RESEARCH METHODS* (3)
- Music History and Literature# (9)
- Advanced Music Theory** (6)
- Performance Major (12)
- Minor (optional)*** (9)

Total (30-39)

#Must include two regular courses offered by the Division of Musicology (one 700-level course recommended) and those required by the specific performance major area. One course may be from the Division of Musicology, Theory, Music Education, or Performance.

For students in D.M.A. degrees, entrance exams will be scheduled the week before the first semester of classes to assess competency in music history and music theory. Students who have not passed the entrance exams in music history and/or music theory will be required to take review classes in those areas during the first 12 hours of study.

Doctor of Musical Arts (Voice Performance)

- MUS 618 RESEARCH METHODS* (3)
- Music History and Literature (must include MUS 623 or MUS 627*) (6)
- Advanced Music Theory** (6)
- Voice Performance (12)
- Performance Related Study (must include MUS 665*, MUS 667*, and MUS 620*) (9-15)
- Directed Research in Vocal Literature (MUS 780) (6)
- Minor (Optional)*** (9)

Total (33-51)

LANGUAGE REQUIREMENT: 1 year of French, 1 year of Italian, 1 year of German; In addition, one semester of a Reading for Knowledge course is required, this can also substitute for an entire year of a language requirement if passed). The second semester of all languages must have a grade of B or above to be accepted.

Doctor of Musical Arts (Choral Conducting)

- MUS 618 RESEARCH METHODS* (3)
- Music History and Literature (must include MUS 625) (9)
- Advanced Music Theory** (6)
- Advanced Choral Methods (MUS 660) (3)
- Performance Major**** (12)
- Minor (Optional)*** (9)

Total (33-42)

Doctoral of Musical Arts (Instrumental Conducting)

- MUS 618 RESEARCH METHODS* (3)
- Music History and Literature (must include MUS 622 or MUS 680) (9)
- Advanced Music Theory** (6)
- Advanced Rehearsal Techniques (MUS 681) (3)
- Performance Major (6 hours of MUP 658 and 6 hours of MUP 758) (12)
- Minor (Optional)*** (9)

Total (33-42)

*If not completed at the master's level.

**MUS 578 cannot be used to fulfill this requirement.

***The minor may be taken within or outside the School of Music, and is subject to the approval of the Advisory Committee and the chairman of the department concerned.

****Must include a minimum of 4 credits of MUP 758

Doctor of Philosophy

Agricultural Economics, PhD

The Department of Agricultural Economics provides programs leading to the degrees of Master of Science and the Doctor of Philosophy. Graduate Faculty in the department provide areas of emphasis in agricultural policy, price analysis, agricultural marketing, agribusiness, farm management, domestic economic development, and production economics. Students must complete a core of courses in agricultural economics, economics and statistics.

Students holding degrees in agricultural economics are employed by academic institutions, local, state, and federal agencies that deal with agriculture, natural resources and economic development; private firms in the agricultural and business sectors; and agencies and governments of foreign countries. These agricultural economists conduct research, develop extension services, teach classes, and serve as managers and administrators in various types of firms and agencies.

Admission Requirements

Students entering the Ph.D. program are expected to have the following courses: at least a two-course calculus sequence, M.S. level microeconomic theory, and statistics theory. Some of these courses may be taken during the student's first semester. A Master's degree in a relevant discipline is generally required for entry into the Ph.D. program. In exceptional cases a student may be admitted directly to the Ph.D. program with only a Bachelor's degree. There are no minimum GPA or GRE requirements beyond those of the Graduate School, but such information, along with letters of recommendation, is used qualitatively in the admission decision.

Degree Requirements

In addition to the course work requirements, students in the Ph.D. program are required to take a comprehensive examination in microeconomics administered by the Department of Economics. Students also must complete a second-year research paper requirement as part of the preliminary examination requirements. The student must defend a dissertation prospectus during the preliminary oral examination. The ability to conduct original research in agricultural economics, documented through the completion of a dissertation, is required.

Graduate students have considerable flexibility to structure their program with respect to course work and research topics consistent with individual interests. Each student has a major professor and an advisory committee to assist in course work selection and in the thesis and dissertation research.

A graduate handbook is available that provides information regarding program content, degree options and available financial assistance.

Animal and Food Sciences, PhD

The Doctor of Philosophy degree is available in Animal and Food Sciences. Degree programs in Animal & Food Sciences provide advanced study and are divided into the disciplinary areas of animal nutrition, animal reproduction, reproductive physiology, or food science. Special interests in beef or dairy cattle, horses, poultry, sheep and swine may be pursued within many of these areas. Programs in food science offer specialization in dairy technology, food chemistry, food microbiology, food safety, meat biochemistry, and meat processing.

The Ph.D. in Animal & Food Science (PhDASC) degree requires an M.S. plus 18 additional credit hours.

Admission Requirements

- Applicants to the Ph.D. program must be in the process of completing, or have already completed, an M.S. degree or equivalent. They must have completed a four-year degree at an accredited institution of higher education, must have achieved at least a 3.00 GPA for all undergraduate courses, and must submit scores from the verbal, quantitative, and analytical portions of the Graduate Record Exam (GRE). Applicants must have completed; 1 semester calculus or physics, 3 semesters biology/ physiology, 3 semesters chemistry (including 1 semester of organic chemistry or biochemistry). Additional courses in physiology, cell biology, microbiology, and anatomy are encouraged.

Degree Requirements

- ASC 771 ANIMAL SCIENCE SEMINAR Section 1
- ASC 771 ANIMAL SCIENCE SEMINAR Section 2

<http://afs.ca.uky.edu/students/graduate>

Anthropology, PhD

Degree Requirements

The PhD program in Anthropology consists of a minimum of 36 credit hours, plus a minimum of two semesters of ANT 767 . Students must fulfill any and all other requirements of the Graduate School. An entering PhD student should complete required coursework by the end of the second year, and successfully defend a dissertation proposal and successfully complete the qualifying exams as early as the fifth semester, but no later than the tenth semester, after admission to the program. Upon acceptance into the graduate program, a student will be assigned a graduate advisor who will review and approve all first-year coursework, and in consultation with the DGS, evaluate requests for transfer of up to 9 credit hours of equivalent graduate-level coursework. Following the first year, all coursework will be approved by the student's committee.

Requirements in the Ph.D. program consist of: (1) three required courses - History of Theory (ANT 610) and a theory and a methods course in the student's designated sub-discipline, to be taken in the first year when available; (2) a course in Research Design (ANT 662), (3) an approved statistics course; (4) 7 courses (21 hours) of additional coursework, of which at least 1 course must be in an anthropological sub-discipline (archaeology, biological, cultural) other than the student's designated sub-discipline. Demonstrated competence by the student in reading or speaking one or more languages may be required by the student's committee. Students must complete and successfully defend to their committee a dissertation research proposal prior to the scheduling of the qualifying exams.

The MA/PhD Program

With the approval of the Graduate Committee and the Director of Graduate Studies, students without a Master's Degree may be admitted directly into the PhD program, and receive the MA following successful completion of the PhD qualifying exams. Students must take: (1) ANT 601 , ANT 610 and ANT 660 or ANT 610 , ANT 650 and ANT 651 ; (2) a statistics course at the 500+ level; and (3) a minimum of 15 additional credit hours of coursework in anthropology or cognate disciplines as approved by the student's committee. Anthropology faculty members have research experience in the following areas: South and Southeast Asia, North and Sub-Saharan Africa, Middle East and North Africa, Europe, the former Soviet Union, Latin America, and North America, including the urban and rural U.S. and with specialization in studies of Appalachia. Members of the department participate in interdisciplinary research in the University's College of Agriculture, College of Medicine, College of Education, and School of Public Health. The Department of Behavioral Science includes anthropologists on its faculty, and students with interests in medical anthropology are encouraged to take behavioral science courses

Arts Administration, PhD

The field of arts administration is largely considered to have been formally developed in the United States in the 1960s. The institutionalization of the field has continued to solidify and expand well into the 21st century.

What was once considered a niche industry, the arts and cultural sector, is one of the largest exports of products of the US (and one of the only with a trade surplus), supports over 4.9 million jobs, and contributes \$730 billion to the nation's gross domestic product (GDP). By contributing 4.2% to the US GDP, arts and cultural production is a larger economic sector than agriculture, travel and tourism, transportation and warehousing, and construction.

As the field has expanded so has the necessity for appropriately trained researchers. The PhD in Arts Administration at the University of Kentucky allows committed and engaged arts scholars the opportunity to study in a rigorous, online degree program focused on field competencies and research methodologies regardless of residential location.

Admission Requirements

The program is designed to provide research specialization in arts and culture beyond the master's level. All students are expected to have at least minimal training in the common body of knowledge in the functional areas of arts administration.

In order to apply to the PhD in Arts Administration, students must have an earned graduate degree in arts administration or a related discipline. Field practitioners in the arts and cultural sectors with graduate degrees in related disciplines may be considered for admission; however, would likely be assigned foundational coursework which would not apply to the required 46-credit hours for the PhD.

Students will only be admitted in the fall semester.

Students interested in the PhD in Arts Administration will be required to submit an application for the degree utilizing the system as designated by the UK Graduate School. Students will be required to submit the following items:

1. **Current Resume or CV.** The resume/CV should include the applicant's contact information; work experience including relevant arts and culture-based work and/or volunteer experience; education; research and teaching experience, if applicable; publications, papers, and research presentations, if applicable; and any special skills or qualifications relevant to a pursuit of a doctoral degree.
2. **Statement of Purpose.** The statement of purpose should include the rationale and purpose of the applicant's desire to pursue a PhD in Arts Administration at UK as well as preliminary research interests, and career goals after achieving the PhD. What is it about arts administration that makes you desire to spend the next four years of your life studying it, researching it, and writing about it in a dissertation? Your statement of purpose must be a serious explanation of your interests.
3. **Portfolio of Writing Samples.** The written portfolio must consist of one or more academic writing samples. It could, if relevant, include professional writing samples. The written portfolio should be at least 20 pages in length with a minimum of one research writing sample being 12-15 pages. Applicants should submit no more than 50 pages for review. Before selecting your writing portfolio pieces, we recommend you read, Graduate School Writing Samples by Bernard Nickel. Remember, a doctoral student's primary activities are reading and writing. The committee needs to see the strongest writing sample(s) possible. Often this means that you will need to write a new sample or expand on a piece of writing you have previously completed. Acceptable examples include but are not limited to:
 1. A previously published article or conference paper with references.
 2. A recent graduate level essay on a related arts and culture topic with references.

3. A newly drafted paper that addresses a key issue or question within the arts and cultural field.
4. **Transcripts.** Applicants may submit unofficial transcripts for all university and college degrees earned. Upon acceptance, official transcripts are required.
5. **GRE scores.** GRE scores are required as a university policy. The GRE cannot be waived. There is no minimum score; GRE scores are considered in combination with other application materials.
6. **Three letters of recommendation.** A combination of professional and academic references is preferred. Letters should be able to speak to a candidate's ability to successfully complete graduate level coursework, research aptitude, and advanced writing skills.

The Arts Administration Graduate Admissions Faculty will review the PhD applications in order to select the finalists. Finalists will be interviewed via video conference in order to determine the student's:

- Rationale for pursuing a PhD;
- Proclivity to online education and aptitude for rigorous research expectations;
- Area of research interest; and
- Systems in place to support the student through doctoral studies.

Accepted Applicants to the PhD in Arts Administration will be provided instructions on how to apply for the Graduate Certificate in Research Methods in Education. There is no need to apply for the certificate prior to acceptance.

Degree Requirements

The minimum coursework required is 46 hours. Up to 9-credit hours may be transferred into the program for students who have taken courses above the requirements of a master's degree with the advice of the student's advisory committee, Director of Graduate Studies, and Graduate School approval.

ARTS ADMINISTRATION CORE (15 hours)

AAD 655 CULTURAL POLICY (3 credit hours)

AAD 665 CREATIVE CITIES, CREATIVE PLACEMAKING, & COMMUNITY VIBRANCY (3 credit hours)

AAD 629 ORGANIZATION THEORIES IN ARTS ADMINISTRATION (3 credit hours)

AAD 720 SUSTAINING LEADERSHIP IN THE ARTS (3 credit hours)

AAD 790 ARTS AND CULTURE RESEARCH STUDIES (3 credit hours)

RESEARCH METHODS CORE (15 hours)

EPE 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA / EDP 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA (3 credit hours)

EPE 619 SURVEY RESEARCH METHODS IN EDUCATION (SUBTITLE REQUIRED) (3 credit hours)

EPE 620 TOPICS AND METHODS OF EVALUATION / EDP 620 TOPICS AND METHODS OF EVALUATION (3 credit hours)

EPE 663 FIELD STUDIES IN EDUCATIONAL INSTITUTIONS (3 credit hours)

AAD 795 ARTS ADMINISTRATION RESEARCH PLANNING & PROPOSAL WRITING (3 credit hours)

ARTS ADMINISTRATION RESEARCH AREA (9 hours)

Students will select 9 credit hours of coursework within the Department of Arts Administration at the 500-, 600-, or 700-level.

Students wishing to take coursework outside of the Department of Arts Administration should receive approval from the DGS prior to enrollment.

ELECTIVE (3 hours)

Students may select 3 credit hours of elective course work within or outside the Department of Arts Administration. Students should consult with their advisor to select elective course(s).

DISSERTATION CREDIT (minimum of 4 credit hours)

AAD 767 ARTS ADMINISTRATION DISSERTATION RESIDENCY CREDIT*

Students must register for this course in the semester of their qualifying examination. A minimum of two semesters are required as well as continuous enrollment (in fall and spring semesters) until the dissertation is complete. These hours constitute full-time enrollment. (4 (+) (Minimum number of AAD 767 credit hours required. Students must continually enroll until degree is complete.))

TOTAL CREDIT HOURS (46+ hours)

Earned master's degree in Arts Administration plus 46+ Minimum number of credit hours required. Students who do not complete their dissertation within two semesters must continually enroll in AAD 767 until the degree is complete.

*Students need not be physically on campus while enrolled in course work or dissertation residency hours. The term "residency" refers to continual enrollment.

Degree Requirements

PhD in Arts Administration students must complete all of the following requirements:

- Complete all assigned foundational coursework (if applicable);
- Complete all PhD coursework (minimum of 46 hours) while maintaining a minimum GPA of 3.0 out of 4.0 on all graduate work attempted at UK,
- Pass the written and oral dissertation proposal in the fourth semester of coursework,
- Write three chapters of a dissertation based on the approved proposal;

- Complete a written dissertation based on the approved proposal and comprehensive exam; and
- Successfully defend the dissertation in an oral presentation.

Students completing these requirements will earn a **PhD in Arts Administration** and a **Certificate in Research Methods in Education**.

Please visit the program website for more information (<https://finearts.uky.edu/arts-administration/phd>).

Biochemistry, PhD

Graduate study in the College of Medicine's Department of Molecular & Cellular Biochemistry is designed to prepare candidates for research careers in academics, industry, and government laboratories. Students will have the opportunity to participate in faculty research programs studying a spectrum of topics including: signal transduction, protein structure and function, transcriptional regulation, the cytoskeleton, secretion and vesicular fusion, disease mechanisms (atherosclerosis, cancer, infectious disease, diabetes, Alzheimer's), drug design, nucleic acid dynamics, and membrane biogenesis & function. Students are expected to obtain a well-rounded knowledge of modern biochemistry, participate in graduate seminars, journal clubs, and research seminars; to interact with visiting scholars; and to present the results of their research at local and national meetings. Financial aid is available to all students in the program.

Admission Requirements

Admission to the Ph.D. program in Biochemistry is through the Integrated Biomedical Sciences (IBS) Curriculum (see <https://graduate.med.uky.edu/integrated-biomedical-sciences>).

Information regarding the Ph.D. program in Biochemistry may be obtained at <http://biochemistry.med.uky.edu/>.

Degree Requirements

Requirements to be added.

Biology, PhD

The Biology Graduate Program offers Doctor of Philosophy and Masters of Science degrees (thesis and non-thesis) in Biology, but doctoral training is strongly emphasized. Master's training is not a prerequisite for admission into our doctoral program. Applicants are selected for admission based on their overall academic record, GRE scores, letters or recommendation, prior research experience, and on their expressed interest in our graduate program training areas or the research of the Biology Department faculty members.

Training

Graduate students are trained through a combination of formal coursework and research experience. Research training consists of work on a research project under the guidance of one or more of our faculty members. The specific research project is chosen in consultation with the faculty mentor and typically is closely related to the research interests of that lab. A one-credit Biology Graduate Student Orientation seminar course is required for all first-year graduate students admitted into the Biology program. All students must complete a set of common requirements for the Biology Graduate Program, including seminar courses, research, a qualifying exam (for Ph.D. candidates), and an exit exam (thesis defense for Ph.D. and Plan A M.S.). Additional coursework depends on the area of specialization and is determined with input from the faculty mentor and student's advisory committee and the training program. The training programs include Environmental and Evolutionary Biology (EEB), Molecular, Cellular and Developmental Biology (MCDB), and Tailored Training (TT).

Environmental and Evolutionary Biology Training Program

The Environmental and Evolutionary Biology group supports education and research on the interactions between organisms and their environment from an evolutionary perspective. This includes the study of micro- and macro-evolutionary processes; the physiological, developmental, and behavioral adaptations of individual organisms; predator-prey, mutualistic, and competitive interactions; and community and ecosystem relationships. Faculty members conduct research exploring both basic underlying principles and specific applied consequences of ecological interactions. The group's core philosophy is that major advances in understanding how organisms evolve and function in changing ecological systems are achieved in an interactive, interdisciplinary research environment involving diverse conceptual and methodological approaches. Students achieve this through coursework, topical seminars, weekly research seminars, and research projects guided by their major advisor and thesis committee.

Molecular, Cellular and Developmental Biology Training Program

Molecular, Cellular and Developmental Biology (MCDB) training focuses on fundamental cellular and developmental processes such as gene expression, cell proliferation, cell signaling, development, neural function, aging, and behavior. We apply biochemical, genetic, physiological, and molecular techniques to resolve outstanding issues in biology and use a diverse set of experimental organisms (e.g., fungi, cultured cells, and complex animals ranging from the fruit fly to mouse). Entering MCDB students rotate through two different laboratories before selecting a research mentor near the end of the first year of study.

Students participate in weekly research and literature seminars and are guided in the selection of other formal course work in order to best prepare for their thesis/dissertation studies. The faculty and students in the MCDB group interact closely with each other, with colleagues elsewhere on our campus, and with scientists worldwide to achieve a stimulating research atmosphere. Our program successfully prepares students for scientific research careers in academic, industrial and governmental settings.

Tailored Training

The Tailored Training program provides great curricular flexibility. The principal difference between Tailored Training and training in the MCDB and EEB programs is that there are no set course requirements, other than the minimum requirements set by the Biology Graduate Program. The mentor and advisory committee work together with the student to customize a curriculum that best suits the needs, interests, and goals of the student. This may be particularly advantageous for students whose primary interests encompass areas outside of or across the other training programs. The curriculum is unique to each student, but not isolating. The student is encouraged to participate in relevant seminars, journal clubs, or other activities attended by students in the MCDB and EEB training programs or in other University graduate training programs. Students admitted through the Tailored Training option enter the Biology Graduate Program directly into the lab of their research mentor. Applicants interested in admission through this mechanism should contact the faculty member with whom they wish to train and also indicate their lab of choice in the Biology application. Faculty members offering Tailored Training will indicate this option on their web pages.

Financial Support

Full financial support is offered to all Ph.D. and Plan A M.S. students accepted for graduate admission; no financial aid application is required. Support may include teaching assistantships and fellowships provided by the university and department, research assistantships offered by faculty mentors, interdisciplinary traineeships and fellowships or extramural research fellowships to individual students.

Admission Requirements

Anyone with a bachelor's degree from an accredited college or university may apply for admission to the Biology Graduate Program at either the MS or Ph.D. levels. Applicants are generally expected to have an undergraduate grade point average of at least 3.0 (out of 4.0), a combined verbal and quantitative Graduate Record Examination score of at least 1100 (old scoring system) or 300 (new scoring system) and, for nonnative English speakers, a TOEFL score of at least 550 on paper-based test or 213 on the computer-based test (CBT) or 79 on internet-based test (IBT). Our GRE institution code is 1837 and Department Code is 0206. We encourage completed applications by January 1 although applications will continue to be reviewed until all positions are filled.

Prerequisite college-level coursework includes one year of physics, two years of chemistry, one semester of calculus, one year of general biology, and upper-level courses providing a working knowledge of contemporary biology. Every student entering the Biology Graduate Program is presented with the Graduate School Bulletin at orientation to familiarize the students with UK Graduate School policy. In addition, each student is provided with a copy of the Rules, Regulations & Policies for the Biology Graduate Program which describes the Departmental rules governing the Biology Graduate Program.

The Biology Graduate Program application is available online. This application and additional information about the Biology Graduate Program can be found at the Program website: <https://bio.as.uky.edu/grad-program>.

Degree Requirements

Requirements to be added.

Biomedical Engineering, PhD

The Doctor of Philosophy (PhD) offered by the F. Joseph Halcomb III, MD, Department of Biomedical Engineering at the University of Kentucky is a research degree granted on the basis of broad knowledge of engineering applications in biology and medicine and an in-depth study in a specific area leading to a dissertation reflecting original and independent work by the candidate. Students receive educational and research opportunities through the facilities and faculty of the department and its ideal geographic proximity and close ties to other units across the University, ranging from engineering to basic science to clinical departments.

Admission Requirements

Applicants to the PhD program must meet the requirements of the Graduate School and are generally expected to have an master's degree from an ABET-accredited engineering program or its equivalent. Under special circumstances, exceptional students may bypass the master's and be admitted directly to the PhD program upon approval by the biomedical engineering faculty. Applicants with degrees in non-engineering disciplines are considered on a case-by-case basis. Admission to the program normally requires a GPA of at least 3.0 on a 4.0 scale on all graduate and undergraduate work, valid scores on the Graduate Record Examination (GRE), a statement of the applicant's reasons for wanting to pursue a PhD in Biomedical Engineering, and letters of recommendation from three faculty members familiar with the applicant's record. Satisfying the above requirements does not guarantee admission to the program; at the same time, admission decisions are based on a holistic review of the application without regard to minimum grade or score requirements alone. Applications are reviewed by a committee of BME Faculty on a rolling basis.

Degree Requirements

- Meet the requirements of the Graduate School.
- Successfully complete 36 credits of coursework including PGY 502 (Physiology) and BME 609 (BME Ethics). Courses for advanced study are determined in consultation with an advisory committee and are selected from engineering, physical sciences, mathematics, life sciences, and medicine. 18 credits of coursework can be waived upon request with the approval of the Graduate School if the student possesses a valid Master's degree.
- Pass the Qualifying Examination. This exam, consisting of written and oral components, is designed and administered by the student's Doctoral Advisory Committee.
- Present and satisfactorily defend a dissertation documenting independent and comprehensive scholarship.

For further information, contact the DGS at bmedgs@uky.edu or visit <https://www.engr.uky.edu/research-faculty/departments/biomedical-engineering>

Biosystems and Agricultural Engineering, PhD

The objectives of the Biosystems and Agricultural Engineering graduate program are to develop and strengthen:

1. the ability to plan and conduct research and design involving the application of engineering science to biological and agricultural systems.
2. an understanding of mathematical, physical, and biological sciences that enables critical assessment of scientific literature in these and related fields.
3. the skills required to use precision instruments, techniques and computers in research and design.
4. the ability to make sound engineering and management decisions.
5. the ability to teach college level courses in Biosystems and Agricultural Engineering, particularly at the doctoral level.

Admission Requirements

Admission into the Ph.D. graduate program of the Biosystems and Agricultural Engineering Department requires the concurrence of the Department Graduate Committee, the Director of Graduate Studies, and the Department Chair, and the availability of an advisor for the student. The Biosystems and Agricultural Engineering Graduate Committee reviews the applicant's previous graduate record, three letters of recommendation, resume, statement of professional objective, and transcripts with special emphasis given to the science and mathematics area. The department requires a minimum grade point average of 3.2 on all previous graduate work for unconditional admission. Exceptions to these requirements are considered on a case-by-case basis, taking into account the materials described above as well as GRE scores. Ph.D. students are admitted into candidacy after they have successfully completed the Qualifying Exam.

Degree Requirements

Graduate students will combine courses in Biosystems and Agricultural Engineering, other engineering fields, the physical sciences, and the biological sciences to develop a program of study that facilitates these objectives. The advanced degrees, however, are primarily research degrees awarded for significant creative research accomplishment, not for the completion of a specified number of courses. Therefore, the program normally concentrates on a strong dissertation problem completed under the supervision of the graduate faculty of the department. A design-oriented, non-thesis option is also available for the master's degree.

Business Administration, PhD

The mission of the doctoral program is to prepare students for successful academic careers at institutions of higher learning within the USA and internationally. To accomplish this mission, the program prepares graduates to comprehend and evaluate research, to perform research which advances knowledge and to provide effective instruction, all within a business-related discipline and in a supportive collegial environment. Specifically, the program is designed to provide:

- An academic understanding of the philosophies and basic methodological issues of academic inquiry
- An understanding of the theoretical state-of-the-art research methods in a specific discipline
- The ability to design and execute substantive research projects
- The ability to communicate research findings to diverse audiences.

Research Interests/Programs - Accounting; Finance & Quantitative Methods; Management; Marketing

Admission Requirements

- GMAT - Minimum 600 or GRE minimum 310

- Copies of transcripts from all higher education institutions attended and self-reported cumulative GPAs for each institution. All previous graduate credits must show a minimum grade point average 3.2 out of 4.0.
- TOEFL - (International students) minimum 550 (paper-based), 213 (computer based) or 79 (internet-based) or for the IELTS a minimum mean band score of 6.5 is required. Note: Permanent residents, graduating from US institution or schools outside the US in English-speaking countries such as Australia, Great Britain and English-speaking Canadian provinces, are not required to take the TOEFL.

Degree Requirements

Minimum requirements for the doctoral degree are 40 hours of graduate level coursework and successful completion of the Qualifying Examination followed by registration for a minimum of two consecutive semesters for dissertation residence credit and a successful defense of the dissertation. Registration for dissertation residence credit is required until the dissertation is defended and the degree awarded.

Core Requirements

- 3 credit hours in research methodology
- 6 credit hours in theoretical foundations
- 9 credit hours in research tools (including statistics)
- 1 credit hour in techniques for business education

Total credit hours in the core 19

Major Field Requirements

The major field consists of at least 21 hours of graduate credit course work including at least 12 credit hours of 700 level courses exclusive of the core. Currently available major fields include:

- Accounting
- Finance and Quantitative Methods
- Management
- Marketing and Supply Chain

All course work must be approved by the Director of Graduate Studies. Written and oral comprehensive examinations are required in the major field.

Post Qualifying Examination Requirements

- A dissertation based on original research on a significant topic is required. The dissertation is defended in an oral examination.
- 2 consecutive semesters (4 credit hours minimum) of dissertation research residence credit.

Maintenance of Good Standing

- A minimum average grade of B for graduate credit in all courses after being admitted to the Graduate School must be maintained.
- Doctoral students obtaining two grades of C are subject to dismissal from the program regardless of the number of offsetting A's.
- Doctoral students obtaining an E grade are subject to dismissal from the program.
- A student failing the Qualifying Exam is subject to dismissal.
- A student may be dismissed from the program after successfully passing the Qualifying Examination if in the judgment of the student's Advisory Committee he/she is not making satisfactory progress toward the completion of a dissertation.

Gatton Business Administration PhD Program

Chemical Engineering, PhD

The Department of Chemical and Materials Engineering offers programs leading to the M.S. and Ph.D. degrees in Chemical Engineering, with research specialization in the following areas:

- Biomaterials
- Drug Delivery
- Energy and Batteries
- Environmental Engineering
- Interfacial Engineering
- Materials Synthesis and Nanomaterials
- Membranes/Advanced Separations
- Molecular Dynamics
- Nanomaterials
- Polymer Science and Engineering
- Process Design
- Water Treatment

Admission Requirements

Admission to the M.S. and Ph.D. degree programs is on a competitive basis, and financial assistance is available through teaching and research assistantships, as well as a limited number of fellowships. Applicants should have a minimum grade point average of 3.0/4.0 on all undergraduate work and should hold a Bachelor of Science degree in Chemical Engineering or its equivalent. Meeting the minimum requirements does not guarantee admission, as acceptance is on a competitive and space-available basis. Students with undergraduate majors not in chemical engineering (for example, chemistry or physics) may be eligible for direct admission into the M.S. or Ph.D. graduate programs; these individuals are expected to complete a program of selected undergraduate core courses during their first year of study.

Degree Requirements

The Ph.D. degree is a research degree granted on the basis of broad knowledge of chemical engineering and specialized study in a specific area of interest. The student must conduct original and significant research and must submit and defend a dissertation based on that research. Course work requirements include the chemical engineering graduate core, and additional courses so as to fulfill the pre-candidacy residency requirements set forth by the Graduate School; the plan of study is developed by the student in consultation with the research advisor and the Director of Graduate Studies. Advancement to doctoral candidacy is contingent upon successful completion of both the written and oral portions of the Qualifying Examination. The written portion addresses three fundamental areas of the chemical engineering discipline: Kinetics and Reactor Design, Thermodynamics, and Transport. The oral portion consists of a presentation and defense of the student's proposed dissertation research; a prospectus prepared by the student must be submitted to the doctoral advisory committee prior to the examination. There is no language requirement for the M.S. or Ph.D. degrees in Chemical Engineering.

A wide selection of research topics is available under the direction of the Chemical Engineering faculty. Recent graduate-level elective courses include Biochemical Engineering, Biomedical Micro & Nanotechnology, Computational Materials Science, Drug Delivery, Energy Systems, Interfacial Engineering, Membrane Science and Technology, and Polymer Processing.

For more information, please contact the Director of Graduate Studies.

Chemistry, PhD

The Department of Chemistry at the University of Kentucky offers two graduate degrees-the MS and the PhD (doctoral) degree. In the MS degree program, the student has the option of pursuing the MS Plan A, which involves research and a thesis, or the MS Plan B, a non-thesis or coursework-only option. A Master's degree is not a prerequisite for the PhD degree.

Admission Requirements

Four years of chemistry covering the areas of general, organic, physical, and analytical constitute the normal minimum requirement for pursuing graduate work within this Department. Additional prerequisite undergraduate work includes one year of college physics, mathematics through calculus, and training in

some foreign language. In special cases, exceptions to these rules may be made by the Director of Graduate Studies and the Graduate Program Committee. An undergraduate grade point average of at least 3.0 (based on a 4-point system) normally shall be required for admission as a graduate student in the Department of Chemistry. The Graduate Program Committee shall, however, be authorized to admit students with averages as low as 2.75, based on such evidence of ability as high GRE scores, recommendations, or excellent preparation. No students with undergraduate averages below 2.5 will be admitted. Graduate Students who lack specified prerequisites, or are found to be deficient in the Proficiency Examinations given during the orientation program, may make up their deficiencies by registering in and successfully completing the appropriate (usually undergraduate) courses.

Degree Requirements

Course work for the PhD shall include four core courses, one from each of four of the five areas of chemistry: analytical, biological, inorganic, organic and physical. Students who entered the program prior to the Fall 2014 semester must select one course from each of the two areas where the lowest proficiency examination scores were obtained. The following (three-credit) courses are officially "core" in each area: CHE 626 (Fall Analytical), CHE 623 (Spring Analytical); CHE 550 (Fall Biological), CHE 552 (Spring Biological); CHE 510 (Fall Inorganic), CHE 514 (Spring Inorganic); CHE 538 (Fall Organic), CHE 535 (Spring Organic); CHE 547 (Fall Physical), CHE 548 (Spring Physical). Students will not be making satisfactory progress unless they have completed at least 12 hours of course work other than research and seminar by the end of the first year and 24 hours of course work by the end of the second year. In addition, any time a student's GPA falls below a 3.0, this is automatically considered to be unsatisfactory performance. Students who are not making satisfactory progress after three semesters will be ineligible to serve as teaching assistants and may be terminated in the graduate program.

A minimum of 8 credits of graduate-level (500-level or above) Chemistry courses in addition to the required core courses. They shall be "regular" courses (that is, seminar, colloquium, practicum, independent study, and research course are excluded); they should generally be in the student's area of study. The second core course of a pair, if taken, can be considered an advanced or specialty course. A minimum of 3 credits of course work outside of the Department of Chemistry. These credits need not be in graduate-level courses, but must be approved by the advisory committee. Alternatively, these credits can be in graduate-level courses in the Department of Chemistry, selected in an area outside the student's area of concentration.

Please see the Department of Chemistry Graduate Program Handbook for more information related to the Graduate Program.

Please visit the Department of Chemistry website for more resources and information.

Civil Engineering, PhD

The Department of Civil Engineering offers the Ph.D. with specialization in the following areas:

Civil Engineering Materials

Construction Engineering and Management

Environmental Engineering

Geotechnical Engineering

Hydraulics Engineering

Structural Engineering

Transportation Engineering

Water Resources Engineering

These areas utilize courses from other departments and such inter-departmental programs are encouraged. Mechanical Engineering, Chemical Engineering, Agricultural Engineering, Mining Engineering, Mathematics, Computer Science, Geology, Biology, and Chemistry are some of the departments whose offerings contribute to the programs in Civil Engineering.

The Department of Civil Engineering has many well-equipped laboratories with active research programs in most areas. The research programs provide financial assistance for graduate students. In addition, financial assistance is available through teaching assistantships, fellowships, and scholarships. Information about the graduate program in Civil Engineering can be obtained by writing the Director of Graduate Studies, Department of Civil Engineering

Admission Requirements

In addition to satisfying general Graduate School and College of Engineering admissions requirements (a GPA of 2.8/4.0 on all undergraduate work is normally required), applicants for admission to the M.S.C.E., and Ph.D. degree programs in Civil Engineering must have been awarded a Bachelor of Science degree from an engineering program accredited by the Accrediting Board for Engineering and Technology (ABET). This requirement may be waived for applicants who have been awarded bachelor's degrees other than in engineering or from unaccredited engineering programs (including those offered by foreign institutions) if the applicant has received an acceptable score on the Graduate Record Examination (GRE).

Students with undergraduate majors not in engineering must also take a certain number of undergraduate remedial courses. Neither the M.S.C.E. degree nor the Ph.D. degree in Civil Engineering will be conferred unless the candidates have successfully completed, during their undergraduate and/or graduate careers, at least one basic course in at least four of the following seven areas: civil engineering materials, construction engineering and management, environmental engineering, geotechnical engineering, hydraulics and water resources engineering, structural engineering, and transportation engineering.

Another admission requirement is a minimum combined verbal and quantitative scores of GRE as follows: 1000 (300: New GRE), and 1100 (330: New GRE) for Master's and Ph.D. degree applicants, respectively. Scores on the analytical portion are not considered. Foreign applicants whose native language is other than English must take the Test of English as a Foreign Language (TOEFL) and score at least 550 (Computer Based TOEFL: 213, iBT TOEFL: 80).

Degree Requirements

The Ph.D. degree has no formal course requirement, but students must pass the Qualifying Examination before entering candidacy. There is no language requirement for the Ph.D. degree in Civil Engineering.

Clinical and Translational Science, PhD

The Department of Behavioral Science in the College of Medicine, in affiliation with the University of Kentucky Center for Clinical and Translational Science, offers a Ph.D. program in Clinical and Translational Science (CTS). The academic discipline focuses on acceleration of the translation of basic science advances to tangible improvements in public health. This interdisciplinary program is designed to expand research career opportunities for exceptional professionals with terminal professional health care degrees (e.g., physicians, nurses, dentists, pharmacists, public health professionals). Students enrolled in the MD/PhD Program are also eligible for admission.

The primary emphasis of the program is mentored research training to permit scholars to create well-reasoned original research contributions to the discovery of clinical health knowledge and its application. An interdisciplinary PhD Advisory Committee will play a prominent role in coordinating the individualized curriculum, research training and career development of the scholars in the program, based on scholar interest and background. A major professor (i.e., primary mentor), with the support of the Advisory Committee, will oversee research training and career development. A minimum of one faculty member in the Department of Behavioral Science who is a full member of the graduate faculty will serve as a primary or co-mentor. Other members of the Advisory Committee will be selected based on their abilities to support elements of the interdisciplinary research interests and career trajectories of the scholar, regardless of departmental affiliation.

Admission Requirements

Admission to the program is generally limited to 1) applicants with terminal health professional degrees with appropriate domestic licensure to practice and 2) students in the MD/PhD Program. Other students may apply to the program with consent of the Director of Graduate Studies.

Admission to the PhD in CTS program is through the Department of Behavioral Science. Inquiries about the Ph.D. program should be directed to the Director of Graduate Studies, Department of Behavioral Science.

Additional information may also be obtained from the Department of Behavioral Science website: <http://behavioralscience.med.uky.edu>

Degree Requirements

Scholars with a terminal health professional degree (or enrolled in the MD/PhD Program) are required to complete 18 credit hours of coursework to establish pre-qualifying residency status. This coursework typically consists of core competency-based courses in clinical and translational science (typically 13 credit hours) and tailored coursework developed in consultation with the major professor and advisory committee (minimum of 5 credit hours). The tailored portion of the curriculum will be designed to provide training needed for the scholar to lead interdisciplinary CTS research teams and/or sustain independent research programs that promote innovation and new discovery.

Core Curriculum

- BSC 731 METHODS AND TECHNOLOGIES IN CLINICAL AND TRANSLATIONAL SCIENCE (3)
- BSC 732 INTERDISCIPLINARY PROTOCOL DEVELOPMENT (3)
- BSC 733 SEMINAR IN CLINICAL AND TRANSLATIONAL SCIENCE (1-3)
- BSC 534 ETHICS AND RESPONSIBILITY IN CLINICAL RESEARCH (3)
- BSC 625 FUNDAMENTALS OF BIostatISTICS FOR CLINICAL AND TRANSLATIONAL SCIENCE (3)
- BSC 790 RESEARCH IN MEDICAL BEHAVIORAL SCIENCE (1-6)

Additional credit hours selected from graduate courses offered by health sciences colleges or related disciplines.

Program website: <https://behavioralscience.med.uky.edu/bscience-graduate-education>

Communication, PhD

The College of Communications and Information offers programs leading to the Master of Arts (either Plan A or Plan B) and Doctor of Philosophy degrees in Communication. The program offers special opportunities for students to apply communication theory and research across many contexts. Students may develop a program of study emphasizing (or combining) research areas such as health communication, information studies, instructional communication, media and mass communication, risk and crisis communication as well as strategic and organizational communication. The program is designed to serve the needs of students whose goals may include teaching and academic research, professional research, or communication careers in the media or other organizations.

Students pursuing work in health communication are encouraged to develop interdisciplinary programs involving the Department of Behavioral Science, the College of Medicine, as well as the Colleges of Dentistry, Health Sciences, Pharmacy, and Nursing. Communication also participates in interdisciplinary research programs with the Center for Prevention Research, the Sanders-Brown Center for Aging, and a variety of other health-related departments and institutes.

Admission Requirements

Students with an undergraduate degree from a fully accredited institution of higher learning and a grade point average of 3.0 on a 4.0 scale are admissible to the graduate program. Only students who have previously completed a master's degree may apply for admission into the doctoral program. Master's degree applicants are expected to have had at least twelve hours of appropriate undergraduate work in communication. Students with degrees in areas not directly related to communication are encouraged to apply, but they may be required to take course work without graduate credit. Should the Admissions Committee feel there is a deficiency in the applicant's studies, it may require enrollment in specific undergraduate courses. Courses taken to remove a deficiency cannot be counted towards the master's degree. In some cases, successful professional experience in a communication field will be considered in admitting students to the program.

Applicants must complete the University of Kentucky's Graduate School online-application and pay the application fee. Per the Graduate School's instruction, all applicants are required to submit official scores on the Graduate Record Examination and official transcripts of all work taken at and beyond the college level. Students whose native language is not English must also submit an official score of at least 550 (or 213 on

the computer version or 79 on the internet-based version) of the Test of English as a Foreign Language (TOEFL) or a minimum of 6.5 of the International English Language Testing Service (IELTS). Additionally, all applicants must submit to the College of Communications and Information Studies Graduate Admissions office: (1) transcripts of all work taken at the college level (unofficial or photocopies are acceptable), (2) at least three letters of recommendation focusing on their academic abilities accompanied by the supplied Reference Form and (3) the completed Application Essay indicating why they want to pursue a graduate degree with their reasons for applying to the program. No additional forms are required for financial assistance consideration-all applicants will be considered for funding at the time of review.

The Admissions and Financial Aid Committee will review only completed admission files after January 5 of each year. Applications must have their completed file on record with the Associate Dean for the Graduate Programs in Communication by the deadline in order to be considered for fall admission. New graduate students are permitted to enroll only during the fall semester. Exceptions will be made only because of circumstances beyond the control of the applicant. This deadline does not apply to: (1) UK undergraduate students in the College of Communications and Information Studies applying as University Scholars, who may be admitted for summer, fall or spring semesters, and (2) current students in the M.A. Program in Communication or the M.L.S., M.S.L.S or M.S. in ICT.

Degree Requirements

The Ph.D. program emphasizes communication as a social science. Graduates are prepared for university positions and careers in government, the media and other organizations as researchers, consultants and policy makers. Students must demonstrate general knowledge of communication across various contexts, as well as competence in a core area of specialization. Current core areas include health communication, information studies, instructional communication, media and mass communication, risk and crisis communication as well as strategic and organizational communication.

Students must demonstrate a thorough grasp of communication theory and research methods and must take course work in a cognate area outside of Communication. Proficiency in a foreign language is not required for successful completion of the Ph.D. in Communication. A student's advisory committee may, however, stipulate certain graduate-level courses in another language for the student's program that are consistent with the objectives of the student's program. The required curriculum is as follows:

Fall Semester: Year 1

- CI 651 COMMUNICATION THEORY
- CI 664 QUALITATIVE METHODS IN COMMUNICATION RESEARCH
- STA 570 BASIC STATISTICAL ANALYSIS (or other advanced statistics course)

Spring Semester: Year 1

- CI 631 PROSEMINAR IN INTERPERSONAL COMMUNICATION OR CI 645 PRESEMINAR IN MASS COMMUNICATION THEORY
- CI 665 QUANTITATIVE METHODS IN COMMUNICATION RESEARCH

Fall Semester: Year 2

- CI 751 ADVANCED TOPICS IN COMMUNICATION THEORY CONSTRUCTION

All students are also required to complete at least 3 credit hours of CI 790 RESEARCH PROBLEMS IN COMMUNICATION by the last semester of course work.

The Associate Dean for Graduate Programs, in consultation with the Graduate Review committee, can waive any of the above requirements for a student who has previously taken the same or equivalent course

at UK or another university for graduate credit. Each student works with a major professor and an advisory committee to plan course work and complete the dissertation. The committee also administers the qualifying examination and the final oral examination. The qualifying examination consists of a written and oral examination over general communication theory, the core area of specialization, research methods/statistics and the cognate area.

Computer Engineering, PhD

The MS and PhD programs in Computer Engineering (CPE) are offered in the College of Engineering jointly by the departments of Computer Science and Electrical and Computer Engineering. The field of computer engineering integrates expertise from both electrical engineering and computer science, emphasizing an understanding of computer architecture, hardware/software interface, and the integration of computers into products and systems at a larger scale. It involves developing technical skills in traditional areas of electrical engineering, such as analog and digital circuit design and communications systems, as well as in areas related to computer science, such as software development and operating systems. As might be expected in such a broad field, there are a great many specialty areas as well, which change regularly to match the needs of the job market. The programs support the College of Engineering's mission "to provide education, research, and service in a scholarly environment in a way that prepares our students for successful professional careers, addresses the changing needs of our other constituents, and responds to the technological challenges facing the Commonwealth and the Nation."

Admission Requirements

- CV
- Personal Statement
- Transcript showing a Bachelor's degree with a minimum GPA of 3.0 in an ABET or CSAB accredited undergraduate program in Computer Engineering, Computer Science, or Electrical Engineering.
- Background in discrete math, programming, data structures, circuits, digital logic, and computer architecture.
- Assistantship Application (Optional)
- Official GRE scores
- Three letters of recommendation
- Application Deadlines:
 - Fall: July 15 (domestic applicants), March 15 (international applicants)
 - Spring: November 30 (domestic applicants), August 15 (international applicants)

Degree Requirements

36 credits (pre-Qualifying exam), the Qualifying Exam, plus a doctoral dissertation

Both the MS and the PhD program require students to take nine credits of core coursework, to include 3 of the following courses:

- CS 570 MODERN OPERATING SYSTEMS
- EE 685 DIGITAL COMPUTER STRUCTURE
- CS 541 COMPILER DESIGN
- EE 580 EMBEDDED SYSTEM DESIGN

Students can focus their curriculum on a variety of areas, including cybersecurity, VLSI, computer architecture, quantum computing, advanced compiler techniques, and distributed operating systems. Any course in the CS and ECE departments may be used to complete the credit-hour requirements, and courses outside these departments may also apply, subject to DGS approval.

Of the 36 course credits, at least 24 credits must be courses in CS, EE, or CPE. The remaining courses must be approved by the DGS. At least 18 credits of the total coursework, including 12 credits of the CS/EE/CPE coursework, must be taken at the 600 or 700 level. Students entering the doctoral program with an MS degree in a relevant discipline (typically CS, EE, or CPE, or other technical discipline relevant to their area of study as determined by the Director of Graduate Studies) must complete at least 18 credit hours of additional course work beyond their MS. Of these 18 course credits, at least 12 must be courses in CS, EE, or CPE. At least 9 credits of the total coursework, including 6 credits of the CS/EE/CPE course work, must be taken at the 600 or 700 level.

Incoming students are informed of the graduate-school and program-specific academic policies at the orientation held before classes begin each fall. A handbook is also on the CS and ECE websites.

Computer Science, PhD

The Department of Computer Science offers the program of study leading to the Doctor of Philosophy in Computer Science degree. The doctoral program in Computer Science is a research degree granted primarily on the demonstration of substantial research achievement. Areas of research actively pursued by faculty and students within the department include: machine learning, artificial intelligence, data mining, cybersecurity, operating systems, distributed computing and networking, cloud computing, parallel processing, data base technology, computer vision, bioinformatics, theory of computation, design and analysis of algorithms, numerical methods, computational science, and software engineering. Courses in these and other areas are available to permit students to complete studies of sufficient breadth and depth prior to engaging in independent research. Admission to the program is highly competitive and based upon academic record, GRE scores, and letters of recommendation, etc. It is strongly suggested that applicants present evidence of competence in computer science as well as mathematical maturity.

Admission Requirements

- Transcript showing a bachelor's degree (4 years or equivalent)
- GRE (waived for Fall 2021 and Spring 2022)

- TOEFL score (for international students)
- Three letters of recommendation
- Statement of purpose
- Additional requirements:
 - A GPA of at least 3.0 on a 4.0 scale
 - Evidence of Computer Science background. Students from a non-CS major may be required to take preparatory CS courses before they can be admitted into the program.

Degree Requirements

Residence requirement. PhD students must spend two years (36 credits of graduate course work, all courses be letter grade courses) in residence before the QE. CS MS students who transfer to the PhD program before earning the MS degree may count all their UK graduate credits earned towards the MS degree (except CS 768 and similar) towards the first and second year of residency.

1. First year. Either (a) Masters at UK, or (b) 18 graduate credits in CS at UK, or (c) transfer of residence credits from an awarded Masters at an accredited domestic or international school. Students request transfer by completing an online form. Prior approval for transfer from the DGS is necessary. In each case, student must still complete the breadth requirement (see next).
2. Second year. 18 additional graduate credits at UK.

Breadth requirement. Students fulfill the breadth requirement by taking at least one course from each of the following areas and receiving at least a B in all, and an A in at least two of them.

1. CS 505 INTERMEDIATE TOPICS IN DATABASE SYSTEMS, CS 541 COMPILER DESIGN
2. CS 570 MODERN OPERATING SYSTEMS, CS 571 COMPUTER NETWORKS
3. CS 515 ALGORITHM DESIGN, CS 575 MODELS OF COMPUTATION
4. CS 535 INTERMEDIATE COMPUTER GRAPHICS, CS 537 NUMERICAL ANALYSIS

A student who has taken equivalent courses elsewhere can ask for them to apply to the breadth requirement; each such case is evaluated on its merits by the DGS. In exceptional cases, when courses needed to complete the requirement are not offered, the DGS may approve other courses as equivalent replacements.

Depth requirement. The Depth process is individualized to the research focus of the student. The student's committee decides on the appropriate form of this process. It can be a written exam, an oral exam, a literature review, a published paper, some other requirement, or a combination of these. The student's committee informs the DGS when the student has accomplished this process.

The overall GPA must be 3.0 or higher.

No remaining incomplete grades before the qualifying exam.

In addition, the graduate school policies manual specifies additional requirements and procedures. It can be found on the graduate school website.

Incoming students are informed of the graduate-school and program-specific academic policies at the orientation held before classes begin each fall. A handbook is also on the CS website.

Early Childhood, Special Education, and Rehabilitation Counseling, PhD

The Counselor Education Doctoral Program offers a Departmental Ph.D. degree with a formal option in Counselor Education, Research, and Policy. The doctoral program is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The doctoral program is campus-based and is not offered on-line. We have carefully designed our doctoral curriculum to meet the needs of students who are preparing for careers in rehabilitation counselor education, research, and administration. Our students complete advanced doctoral seminars in rehabilitation counseling research, psychosocial aspects of chronic illnesses and disability, rehabilitation counseling theory, professional rehabilitation counseling issues, and rehabilitation administration and policy. In these courses, students explore a wide range of psychosocial, societal, and international perspectives on disability and counseling. In addition to the counseling professional seminars, doctoral students' complete coursework in the following areas:

1. A Graduate Core (23 hours), including coursework in college and university teaching, grant writing, clinical practicum experiences and practicum experiences in university teaching, and dissertation residency.
2. A Counselor Education area of emphasis core (15 hours) (counseling professional seminars, described above).
3. A thematic support area from outside the area of emphasis (15 hours), including interdisciplinary coursework consisting of courses from outside the Department, such as: Psychology, Rehabilitation Sciences, Educational and Counseling Psychology, Social Work, Sociology, Communication Disorders, or other areas, designed to develop the student's expertise in a focused area of rehabilitation counseling research, and typically this core directly relates to the student's dissertation topic.
4. A research block (21 hours), including course work in statistical methods, quantitative research methods, qualitative research methods, and mixed method approaches, and research internships.

Each student's program of studies is planned and supervised by an Advisory Committee consisting of 4 individuals, including the student's major professor and two other members from the Department. The remaining member represents the student's outside support area. Upon completion of the prescribed coursework, students are examined to evaluate their preparedness to be advanced to candidacy for the Doctor of Philosophy degree. The basis of this evaluation is completion of a qualifying examination administered by the student's Advisory Committee.

Admission Requirements

Applicants are required to have an undergraduate GPA of at least 2.75.

A Master's degree in Rehabilitation Counseling or a closely-related field with a GPA of at least 3.5. (Note: Students who are entering with a non-Rehabilitation Counseling Master's degree program may be required to take leveling, or foundational courses as described below.).

Submission of Graduate Record Examination (GRE) scores (mandatory for all doctoral applicants).

Minimum of one year (at least two preferred) of post- Master's experience in rehabilitation counseling or a related field (program will alternatively consider extensive prior related experience and exceptional academic performance on an individual basis).

- At least three (3) positive recommendations attesting to the candidate's professional disposition and fitness for the profession, self-awareness and emotional stability, oral and written communication skills, cultural sensitivity and awareness, and potential for scholarship, professional leadership, and advocacy.
- Written statement of the applicant's objectives for completing a doctoral program; and
- A sample of the applicant's academic and/or professional writing. Final admissions decisions are the purview of the Department's faculty.

Note: For students applying to the Ph.D. Formal Option with a Master's or graduate degree that is not from a CORE- or CACREP-accredited rehabilitation counseling program, foundational rehabilitation counseling content and core counseling content courses may be required prior to, or concurrent with enrollment. Decisions about the need for foundational coursework are the purview of the Program faculty and will be made on an individual basis, based on review of the applicant's previous graduate coursework, review of applicant's transcripts and course descriptions; previous graduate coursework may in some cases be substituted.

Foundational Coursework includes the following: (a) Foundations or Principles of Rehabilitation Counseling or Counseling, (b) Social and Cultural Diversity, (c) Human Growth and Development, (d) Career Theory and Development, (e) Individual and Group Counseling Theories and Models, (f) Assessment and Testing, (g) Research and Program Evaluation, (h) Psychosocial and Medical Aspects of Disability.

Degree Requirements

A typical course sequence is as follows:

1. Coursework from Professional Seminars in Advanced Rehabilitation Counseling may include:
 - CED 740 ADMINISTRATION, SUPERVISION AND PROGRAM EVALUATION IN REHABILITATION COUNSELING
 - CED 735 ADVANCED METHODS FOR TEACHING AND CONDUCTING RESEARCH IN COUNSELOR EDUCATION: FROM THEORY TO PRACTICE
 - CED 711 SEMINAR IN ADVANCED REHABILITATION PRACTICES AND PROCEDURES
 - CED 760 CONTEMPORARY PRACTICES IN REHABILITATION
 - CED 715 ADVANCED SEMINAR IN PSYCHOSOCIAL ASPECTS OF CHRONIC ILLNESS AND DISABILITY

- CED 770 ADVANCED SEMINAR IN REHABILITATION COUNSELING THEORY, PRACTICE, AND EDUCATION
2. EDS 701 / CED 701 / IEC 701 : Seminar for EDSRC Leadership Personnel (1 credit each, 4 semesters) (4)
 3. EDS 712 / CED 712 / IEC 712 : Seminar in EDSCE Professional Services (3)
 4. EDS 720 / CED 720 / IEC 720 : Seminar in EDSCE Teacher Preparation (3)
 5. EDS 721 / CED 721 / IEC 721 : Practicum in EDSCE Personnel Preparation (3-9)
 6. EDS 767 / CED 767 / IEC 767 : Dissertation Residency Credit (≥ 4). EDS 767 is taken for a minimum of two credits per semester for two semesters (excluding summer terms) after successful completion of the qualifying examination.
 7. CED 710 CLINICAL PRACTICUM IN COUNSELING (Doctoral Section)

Rehabilitation Counseling Area of Emphasis (15 credits)

Thematic Support Area (15 credits)

Research Tools (21 credits)

Required Practicum Experiences

Clinical practicum experiences are required of all doctoral students. As with the didactic portion of the curriculum, practica experiences are planned according to the individual backgrounds and needs of each student. Students are required to complete a 200-hour clinical practicum (40% of which must be direct client contact hours).

Required Internship Experience

In the course of their program plan, students will complete 600-clock hours of supervised internship, addressing three of the five following areas: Counseling, Supervision, Teaching, Research and Scholarship, Leadership and Advocacy. The internships are designed to ensure doctoral-level experience in counselor education areas including: campus and distance-based teaching, supervision, and clinical counseling. The nature and focus of the internship will be determined in consultation with each student individually.

Professional Involvement

We encourage and support student's professional development, with an emphasis on participation in the rehabilitation counseling profession at the national level through research, publication, and participation in national conferences and leadership opportunities in our national and regional rehabilitation counseling professional associations. We provide support to our students through research grants and teaching assistantships, and a number of funding opportunities that are available to our doctoral students through our graduate school.

Economics, PhD

The Ph.D. program is designed to enable the graduate to contribute to economic research and policy making. The program is aimed at preparing students for careers in academia, government, and the private sector. To attain these objectives, the program is structured to provide the student with the appropriate knowledge, understanding, skills and abilities, including:

1. An understanding of economic theory;
2. Skill in the use of quantitative techniques, specifically mathematics and statistics;
3. An extensive exposure to the research, institutions, and issues in several fields;
4. Experience in the development of research projects throughout their entire program;
5. Research and writing skills that will lead to the publication of original research; and
6. Competence in communicating economic knowledge to broad and diverse audiences.

More information about the PhD in Economics is available at <https://gatton.uky.edu/programs/phd/phd-economics>

Admission Requirements

Applications are submitted online through the Graduate School, and must include:

1. A resume
2. A one-to-two page personal essay about why you want to attend graduate school in economics
3. Two or three confidential letters of recommendation
4. Unofficial copies of your GRE scores, transcript, and TOEFL score (if required).

Degree Requirements

1. Economic Theory. The student must demonstrate competence in economic theory as demonstrated by passing a departmental written examination in economic theory. This examination will be given twice a year, at the beginnings of the spring semester and the eight-week summer session. Students failing the examination will be given a second attempt; those failing on the second attempt will not be allowed to continue in the program. Minimum preparation for the written examination in economic theory can be achieved by taking the following core courses:

- ECO 601 ADVANCED MICROECONOMIC THEORY
- ECO 602 MACROECONOMIC THEORY
- ECO 701 NEOCLASSICAL MICROECONOMIC THEORY
- ECO 702 ADVANCED MACROECONOMIC THEORY

2. Statistics/Econometrics. The student must demonstrate competence in the area of statistics and econometrics. This competence may be demonstrated by satisfactory performance in the following courses:

- ECO 603 RESEARCH METHODS AND PROCEDURES IN ECONOMICS
- ECO 703 INTRODUCTION TO ECONOMETRICS I
- ECO 706 INTRODUCTION TO ECONOMETRICS II and

- ECO 707 RESEARCH SEMINAR IN ECONOMICS or ECO 790 TIME SERIES ANALYSIS

3. Elective Areas. All Ph.D. students must choose two fields of study approved by the student's Advisory Committee. The two fields may be chosen from the following: Environmental/Health Economics, Industrial Organization, International Economics, Labor Economics, Macroeconomics, Public Economics. Minimum course preparation for each field shall consist of at least two courses as determined by the student's Advisory Committee. In addition to the two chosen fields, the student is encouraged to take elective courses in other areas of economics, such as econometrics or economic theory, or in other disciplines such as Agricultural Economics, Finance, Marketing, Management, Mathematics, or Public Administration.

4. Supporting Work. At least nine hours of supporting course work must be selected. These courses must be approved by the student's Advisory Committee. This supporting work will allow the student to pursue more intensive study of one or both of the two chosen fields, or to pursue courses in other fields of economics. The supporting work cannot consist of 400 or 500 level courses, ECO 610 or ECO 611, ECO 652, or any of the core courses in economic theory (ECO 601, ECO 602, ECO 701, ECO 702, ECO 704, ECO 705) or econometrics (ECO 603, ECO 703, ECO 706). Supporting work can also be courses from other disciplines including Agricultural Economics, Finance, Mathematics, Statistics, or Public Policy with the approval of the Director of Graduate Studies.

5. Grades. Minimum average of grade B in all courses attempted for graduate credit after being admitted to the Graduate School. Students obtaining six quality points below a B average will automatically be dropped by the department.

6. Qualifying Examinations

a. Written Examination: The written examination must be taken in one of the student's two elective fields as part of the requirements for candidacy for the Ph.D. degree. The choice of the field in which the student takes the exam should reflect the intended field in which the student is to write his or her dissertation. This examination is given twice a session. Fields may elect to require a paper in addition to an exam; this will be communicated to the students at the beginning of the academic year. The written examination is prepared and graded by specialists in the respective fields. In the event that the student fails the examination, the student's Advisory Committee determines the conditions which must be met before another examination is given. The minimum time between examinations is four months. Two failures to pass the written examination constitute failure of the qualifying examination.

b. Oral Examination: After passing the written qualifying examination, the Director of Graduate Studies will, on the advice of the Advisory Committee, schedule through the Graduate School an oral examination which will be administered by the Advisory Committee. The examination will ordinarily consist of the presentation and defense of a dissertation proposal.

7. The Ph.D. Dissertation. The dissertation will be based on original research on a significant topic. The dissertation will be defended in an oral examination.

Education and Counseling Psychology - Counseling Psychology, PhD

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology. Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

The Ph.D. program is offered in the specialty areas of counseling psychology, educational psychology, and school psychology under one departmental program. The Doctor of Philosophy programs in Counseling Psychology and in School Psychology are accredited by the American Psychological Association through its Office of Program Consultation and Accreditation (750 First Street, NE, Washington, DC 20002-4242, phone: 202.336.5500). A full-time, supervised one-year internship is required for both areas. Various concentrations are possible within the Ph.D. program. Representative of these are as follows: (a) learning, cognition, and curriculum design; (b) human development and social processes; (c) counseling psychology; (d) measurement, evaluation, and research design; and (e) school psychology.

Admission Requirements

Applicants to the Ph.D. Degree program in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the Ph.D. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students with prior graduate work at the masters or specialist degree will also be considered for admission to advanced graduate status and, in the case of counseling psychology, are preferred. Students are selected for this program based on their undergraduate and prior graduate grade point average, Graduate Record Examination scores, letters of recommendation, personal statements describing their selection of a career in their chosen areas, writing samples, and personal interviews. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

Requirements to be added.

Education and Counseling Psychology - Educational Psychology, PhD

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology. Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

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Admission Requirements

Applicants to the Ph.D. Degree program in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the Ph.D. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students with prior graduate work at the masters or specialist degree will also be considered for admission to advanced graduate status and, in the case of counseling psychology, are preferred. Students are selected for this program based on their undergraduate and prior graduate grade point average, Graduate Record Examination scores, letters of recommendation, personal statements describing their selection of a career in their chosen areas, writing samples, and personal interviews. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

Year 1: Partial completion of required coursework-18-21 hours of formal coursework, including

- first-year doctoral seminar (3 hours)
- introduction to educational psychology class (3 hours)
- human lifespan development class (3 hours)
- one development and/or learning theories class (3 hours)
- two to three research methods classes (6-9 hours)

Selection of EDP members of Advisory Committee. Meeting with Advisory Committee to discuss program goals and objectives. Reflection and discussion with advisor regarding the independent study writing topic and research portfolio. Attendance at professional meetings and departmental colloquia.

Year 2: Continued progress on completion of required coursework-21 hours of formal coursework, including

- multicultural psychology (3 hours)
- one development and/or learning theories class (3 hours)
- two classes in area of specialization (6 hours)
- two research methods classes (6 hours)
- independent study writing project with major professor (3 hours)

Selection of full Advisory Committee (by fall of Year 2). Fulfillment of teaching requirement (including corresponding enrollment in EDP 782). Progress toward completion of research portfolio. Reflection and discussion with Advisory Committee regarding the proposed internship. Internship proposed to Committee. Presentation at professional meetings and departmental colloquia.

Year 3: Completion of required coursework-18-21 hours of formal coursework, including

- two to three research methods classes (6-9 hours)
- one development or learning theories class (3 hours)
- one class in area of specialization (3 hours)
- internship in educational psychology (3-6 hours)

Completion of research portfolio and internship. Successful completion and oral defense of qualifying examination. Presentation at professional meetings and departmental colloquia. Progress on converting the empirical research study from research portfolio into a publishable manuscript.

Year 4: No formal coursework, with the exception of continued enrollment in EDP 767, Dissertation Residency Requirement. Submission of empirical study to refereed journal. Completion and defense of Dissertation Proposal. Permission obtained from Institutional Review Board to conduct research. Substantial progress on Dissertation data collection. Presentation at professional meetings and departmental colloquia.

Year 5: No formal coursework, with the exception of continued enrollment in EDP 767, Dissertation Residency Requirement. Completion and defense of Dissertation. Submission of dissertation for publication in refereed journal(s).

Education Sciences, PhD

The Interdisciplinary Ph.D. in Education Sciences (major code: EDSC) program is designed for individuals seeking careers in educational research. Graduates of the program are prepared to meet the growing national need for educators who are well trained in methodological issues in education research. This Ph.D. program prepares individuals who will have careers in research universities, educational research labs and corporations, and research groups within education agencies.

All EDSC students will be encouraged to apply for 20-hour per week research assistantships on grant supported projects in the College of Education and other units at the University of Kentucky. In addition to coursework, students will be expected to attend local, state, or national professional conferences during the first and second years of their programs. All students will be expected to present their research at professional conferences by their third year in the program. EDSC doctoral students are expected to submit manuscripts to professional journals and accomplish refereed publications during their doctoral study. Presentations and publications may be scholarly works with a single author or groups of co-authors.

Curriculum

EDSC is a rigorous doctoral program that requires year-round, full-time study. Students are encouraged to apply for admission for the Fall semester. Students seeking Spring admission should contact the program DGS to determine if the strand they are interested in allows for Spring admissions. Students will be required to complete a set of core courses in research methods and education policy; in addition, students will then be able to follow a particular "strand" of courses in an area of specialization. All students will be involved in educational research projects throughout their time in the program.

EDSC doctoral students will be required to designate at the time of application the strand that they would like to complete. These include advanced concentrations in the following:

- Curriculum and Instruction
- Educational Leadership Studies
- Educational Policy Studies: Educational Evaluation and Policy
- Educational Policy Studies: Philosophical and Cultural Inquiry
- Health education
- Physical education
- Quantitative and Psychometric Methods
- STEM education

<https://education.uky.edu/research/phd/>

CURRICULUM AND INSTRUCTION

- The Ph.D. in Interdisciplinary Education Sciences - Curriculum & Instruction strand prepares individuals for careers in educational research. Graduates of the Curriculum & Instruction strand of the Education Sciences program pursue a variety of career opportunities, including becoming university faculty in Curriculum & Instruction departments; assuming advanced leadership positions in schools, districts, and state governments; or working for curriculum development companies or in private consulting, among others.
- Within the Curriculum & Instruction strand, students may specialize in an educational content area within Curriculum & Instruction, such as Instructional Systems Design, Literacy education, or Social Studies education, or they may study Curriculum & Instruction more broadly.

Admission Requirements

- Applicants are evaluated holistically, with attention paid to prior educational achievement and professional experience. Interviews are frequently requested. All materials may be submitted through The Graduate School's online application process. Applicants must submit the following materials to be considered for admission:
- GRE scores
- Transcripts from all prior institutions of higher education
- Personal statement
- CV or resume
- Writing sample from prior academic work
- 3 letters of recommendation
- Applicants are encouraged, but not required, to submit a departmental application for teaching or research assistantships along with their application for program admission.

Degree Requirements

- Students must take a minimum of 36 credit hours of coursework prior to the qualifying examination and the dissertation. This coursework is divided into the following categories:
- A minimum of 12 credits of research methodology coursework.
- A program core of 12 credits, including a proseminar, coursework in curriculum theory, and coursework in multicultural issues in education
- A specialization core of 12 credits in Instructional Systems Design, Literacy Education, Social Studies Education, or Curriculum & Instruction.
- Students are encouraged to take elective courses in departments outside of Curriculum & Instruction.

EDUCATIONAL LEADERSHIP STUDIES

- The Doctor of Philosophy (PhD) Educational Leadership strand prepares academicians and university faculty in the study of leadership within educational contexts.
- The Doctor of Philosophy (PhD) Educational Leadership strand is a cohort-based program with online courses, qualifying examinations, and dissertation defense.
- The degree consists of 42 minimum course credit hours and a minimum of 4 credits of dissertation residency (does not need to be completed in Kentucky).

Admission Requirements

- Earned Masters, from a fully accredited institution, with a 3.5 GPA on a 4.0 scale.
- Transcripts from previous post-secondary institutions.
- Professional Resume
- Personal Statement
- Diversity, Equity & Inclusion Statement
- 3 Recommendations, with at least one academic who has earned a doctoral degree and serves in an academic institution and one professional to speak to your creativity, ability to navigate systems.
- On-demand writing sample
- Completed graduate-level basic statistics course by August 15 of the semester of program start.

Degree Requirements

- 42 minimum credits of coursework, 4 minimum credits of dissertation residency. Minimum of 46 credits total.
- 14 courses (5 leadership; 5 research; 4 electives) of pre-dissertation coursework typically earned over 7 semesters including summer.
- Qualifying examination after completion of 42 credit hours of coursework
- Student must remain enrolled in EDL 767 Dissertation Residency Credit from the semester they sit for their Qualifying Examination through semester they defend their dissertation.
- Final dissertation defense.

EDUCATIONAL POLICY STUDIES: EDUCATIONAL EVALUATION AND POLICY

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A masters degree or equivalent level of coursework

- A 500-word statement of purpose describing the student's intellectual and professional goals for completing the program. Applicants are advised to clearly indicate the areas of coursework and research they wish to pursue.
- Four letters of reference with at least two from referees familiar with the students' academic work
- Resume or Curriculum Vitae
- Writing sample demonstrating academic writing (e.g. chapter of master's thesis, course paper, scholarly essay)
- Application Deadlines vary by department, consult the EDSC webpage for details.
- GRE is not required for Specialization in Evaluation and Education Policy or Philosophical and Cultural Inquiry

Degree Requirements

Students are required to complete 12 hours of core research classes

- One three-hour course in quantitative research methods.
- One three-hour course in qualitative research methods.
- One additional and complementary three-hour course in either quantitative or qualitative methods to form a "core" of six hours in quantitative or qualitative methods.
- One three-hour course in advanced studies in research methods. The advanced course may be in any area, including internships and academic writing, and will typically include "Advanced" in the course title. This course is to be selected by the advisory committee to meet the specific research training needs of the student.

The EDSC-Educational Evaluation & Policy Specialization includes the above 12 hours of core research and

- EPE 601 PROSEMINAR
- EPE 619 SURVEY RESEARCH METHODS IN EDUCATION (SUBTITLE REQUIRED)
- EPE 620 TOPICS AND METHODS OF EVALUATION
- One additional three-hour course in advanced research methods
- One three-hour course in policy research
- One three-hour course in contextual studies
- Nine hours of electives chosen in conjunction with the students Advisory Committee.

A student's program of study may vary from this structure with approval from their program committee.

<https://education.uky.edu/epe/>

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A masters degree or equivalent level of coursework
- A 500-word statement of purpose describing the student's intellectual and professional goals for completing the program. Applicants are advised to clearly indicate the areas of coursework and research they wish to pursue.
- Four letters of reference with at least two from referees familiar with the students' academic work
- Resume or Curriculum Vitae
- Writing sample demonstrating academic writing (e.g. chapter of master's thesis, course paper, scholarly essay)
- Application Deadlines vary by department, consult the EDSC webpage for details.
- GRE is not required for Specialization in Evaluation and Education Policy or Philosophical and Cultural Inquiry

Degree Requirements

Students are required to complete 12 hours of core research classes

- One three-hour course in quantitative research methods.
- One three-hour course in qualitative research methods.
- One additional and complementary three-hour course in either quantitative or qualitative methods to form a "core" of six hours in quantitative or qualitative methods.
- One three-hour course in advanced studies in research methods. The advanced course may be in any area, including internships and academic writing, and will typically include "Advanced" in the course title. This course is to be selected by the advisory committee to meet the specific research training needs of the student.

The EDSC-Philosophical and Cultural Inquiry Specialization includes the above 12 hours of core research and

- EPE 601 PROSEMINAR
- One three-hour course in philosophical studies
- One three-hour course in cultural studies

- One three-hour course in historical studies
- Six hours of electives focused on philosophical or cultural inquiry outside the College of Education
- Nine hours of electives chosen in conjunction with the students Advisory Committee.

A student's program of study may vary from this structure with approval from their program committee.

<https://education.uky.edu/epe/>

HEALTH EDUCATION

Customize a health education doctorate (Ph.D.) to follow your passion for a career in higher education. Our program will prepare you for research-focused faculty positions or careers that involve conducting research on behalf of community health agencies and organizations, corporations, or health-related governmental agencies. You will explore both individual and population health, focusing on evidence-based strategies, application of health behavior theory, and research inquiry across a variety of health topics and target populations.

In the health education Ph.D. program at the University of Kentucky, you will:

- develop an understanding of the full spectrum of health education, as well as an in-depth knowledge of one specific area or discipline, such as college health promotion, youth health promotion, substance use prevention, community-based research/interventions, health inequities, and health policy
- participate in guided research projects designed to prepare you for conducting your own research
- conduct independent research aligned with your career goals as you develop scientific expertise
- gain teaching experience at the university level, preparing master's students for careers in health education
- write and publish research in high-quality journals
- collaborate with faculty on research and service projects
- have opportunities for multidisciplinary work within health education, health promotion, communication, social sciences, and/or other public health disciplines and topics.

With small class sizes in our health education graduate program, you will receive individual attention. We have a thriving graduate program in the Department of Kinesiology and Health Promotion and place the highest value on ethics, professionalism, and interdisciplinary work.

The PhD program utilizes a mentor-based admission process. Therefore, students are strongly encouraged to identify a faculty member with whom they wish to work prior to applying to the program.

<https://www.uky.edu/academics/doctoral/education-sciences-health-education-graduate>

Admission Requirements

- A master's degree or 30 semester hours of approved graduate course work with a 3.0 GPA.
- GRE: Not required
- CV
- Personal Statement: Statement of your professional aspirations and explain how you believe graduate study at the University of Kentucky will enhance your ability to achieve those professional goals. In your statement, provide information about your background, research skills and experiences, personal and professional achievements, and educational, work or life experiences that influenced you and your life goals.
- Writing Sample: Students who have not written a Master's level thesis will be required to submit an example of their research writing. A literature review or project from a completed class are acceptable examples for submission for application. Special circumstances will be considered at the discretion of the applicant's designated potential advisor.
- Four letters of recommendation: At least two must be from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

Degree Requirements

Our PhD. degree with specialization in Health Education requires students to complete a minimum of 42 hours of course work. The doctoral degree requires students to complete a core of 9-12 hours of health promotion courses, 12 hours of research/statistics/design courses plus supporting electives for a total of at least 42 hours. Students, with the approval of their advisory committee, select elective course work that will enhance their health education and health promotion knowledge and skills as well as their research skills. Additional information, including possible pre-requisites and electives, can be found on the departmental website: <https://education.uky.edu/khp/grad/>

The general structure of the coursework needed to complete the Ph.D. in Education Sciences with advanced concentration in Health Education course requirements is as follows:

- Pre-requisite courses (based on review of transcripts)
- Health Promotion Core Courses (9 hours)
- Research Methods/Stats Courses (12 hours minimum)
- Cognate Area (9 hours minimum)
- Independent Study/Research (6 hours minimum)
- Electives (6 hours minimum)
- Dissertation Hours (4 hours minimum)

PHYSICAL EDUCATION SPECIALIZATION

Searching for a physical education graduate school to best fit your interests? Customize our physical education doctorate program (Ph.D.) to follow your passions. You will gain an understanding of the full spectrum of physical education, along with in-depth knowledge of one specific area or disciplines such as comprehensive school physical activity programs, behavior management in activity settings, and motivating individuals to be active. Both online and face-to-face options available.

In the physical education doctorate program (Ph.D.) at the University of Kentucky, you will:

- participate in guided research projects designed to prepare you for conducting your own research
- conduct independent research as you develop scientific expertise
- gain teaching experience at the university level, preparing bachelor's and master's students for careers in physical education and health teaching
- write and publish research in high-quality journals
- collaborate with faculty on research and service projects
- network with physical education teacher educators from across the country and around the world

You will develop extensive subject-matter expertise and discover potential research topics in courses covering physical education, physical activity promotion, epidemiology, sociology, behavioral science, and public health.

Admission Requirements

- A master's degree or 30 semester hours of approved graduate course work with a 3.0 GPA.
- GRE: Not required
- CV
- Personal Statement: Statement of your professional aspirations and explain how you believe graduate study at the University of Kentucky will enhance your ability to achieve those professional goals. In your statement, provide information about your background, research skills and experiences, personal and professional achievements, and educational, work or life experiences that influenced you and your life goals.
- Writing Sample: Students who have not written a Master's level thesis will be required to submit an example of their research writing. A literature review or project from a completed class are acceptable examples for submission for application. Special circumstances will be considered at the discretion of the applicant's designated potential advisor.
- Four letters of recommendation: At least two must be from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

With small class sizes in our physical education graduate programs, you will receive individual attention. We have a thriving graduate program in the Department of Kinesiology and Health Promotion and place the highest value on ethics, professionalism, and interdisciplinary work.

Degree Requirements

The PhD program has a required core of classes and sample of electives. The student may have an emphasis in specific areas of education. Additional information, including possible pre-requisites and electives, can be found on the departmental website: <https://education.uky.edu/khp/grad/>

Required Research Methods and Statistics Core (12 hours)

Includes a minimum of 3 hours of qualitative and 3 hours of quantitative analysis.

A total of nine hours must be chosen from either quantitative or qualitative courses. Three additional hours of advanced study are to be selected by the advisory committee to meet the specific research and statistical training needs of the student.

Advanced Strand (18 hours)

- KHP 601 TEACHING EFFECTIVENESS AND LEADERSHIP IN KINESIOLOGY AND HEALTH EDUCATION
- KHP 602 PROMOTING PHYSICAL ACTIVITY FOR YOUTH
- Two additional courses in KHP or related area (6+ hours)

Other related courses including research courses (6+ hours)

- KHP 695 INDEPENDENT STUDY IN KINESIOLOGY AND HEALTH PROMOTION
- KHP 782 INDEPENDENT RESEARCH IN KINESIOLOGY AND HEALTH PROMOTION

Dissertation (2+ hours)

- KHP 767 DISSERTATION RESIDENCY CREDIT (2 hrs/semester after passing qualifying exams)

QUANTITATIVE AND PSYCHOMETRIC METHODS

The primary objective of the QPM program is to promote the development of advanced quantitative and psychometric knowledge and skills that allow program graduates to function as competent independent researchers or scientists who can innovatively and effectively carry out research design and data analysis for all kinds of empirical purposes.

Admission Requirements

- Degrees
 - For admission of exceptional undergraduate students. Undergraduate degrees in STEM, social sciences, behavioral sciences, education sciences, and other fields with adequate coursework in mathematics and/or statistics.
 - Master degrees in STEM, social sciences, behavioral sciences, education sciences, and other fields with adequate coursework in mathematics and/or statistics.
- GPA (no minimum standard)

- GRE General (no minimum standard)
- TOEFL (for international students, UK minimum standard)
- Personal statement
- Three (3) reference letters

Degree Requirements

- 36 credit hours of coursework
- Common Research Methods and Statistics Core (12 hours)
- Interdisciplinary Core (6 hours)
- Quantitative and Psychometric Methods (QPM) Core (18 hours)
- Internship (optional)
- Qualifying Exam (after completion of coursework)
- Dissertation Proposal Defense
- Final Dissertation Oral Defense

<https://education.uky.edu/edp/qpm/>

STEM EDUCATION

The Education Sciences Interdisciplinary Ph.D. with an emphasis in STEM Education is an intensive program designed to prepare future researchers, teacher educators, and researcher-practitioners to meet the national call for more individuals with heightened scholarly expertise in STEM Education. The Education Sciences Interdisciplinary Ph.D. program requires study throughout the year. Full-time study is strongly encouraged; however, part-time study is a possible alternative, particularly for professional educators.

Admission Requirements

- GRE scores (preferably from within the past 10 years - if you are a KY teacher applying for rank change, GRE must be within the last 5 years)
- TOEFL or IELTS (for international students whose native language is not English)
- GPA requirement: 2.75 undergraduate; 3.0 Graduate work
- Official transcripts: official transcripts from all post-secondary institutions attended
- A short statement about your career goals and interests

- Writing sample (e.g., paper written for coursework requirement, grant application, publication)
- Three letters of recommendation (the online system will email your references to submit their letters)
- Interview with STEM Ed faculty specializing in your area of interest (Interview will be scheduled upon completion of application materials)
- Onsite writing sample prior to interview

Degree Requirements

- Total credit hours - 45 credit hours plus qualifying exam and dissertation residency
- 12 hours education research methods
- 15 hours STEM Education core
- 9 hours STEM Education methods
- 9 hours electives
- Electives can be graduate level coursework in any discipline, but it is recommended that they are at the 600 level or above. (optional)

<https://education.uky.edu/stem/graduate/phd/>

Educational, School, and Counseling Psychology - School Psychology, PhD

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology. Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

The Ph.D. program is offered in the specialty areas of counseling psychology, educational psychology, and school psychology under one departmental program. The Doctor of Philosophy programs in Counseling

Psychology and in School Psychology are accredited by the American Psychological Association through its Office of Program Consultation and Accreditation (750 First Street, NE, Washington, DC 20002-4242, phone: 202.336.5500). A full-time, supervised one-year internship is required for both areas. Various concentrations are possible within the Ph.D. program. Representative of these are as follows: (a) learning, cognition, and curriculum design; (b) human development and social processes; (c) counseling psychology; (d) measurement, evaluation, and research design; and (e) school psychology.

Admission Requirements

Applicants to the Ph.D. Degree program in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the Ph.D. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students with prior graduate work at the masters or specialist degree will also be considered for admission to advanced graduate status and, in the case of counseling psychology, are preferred. Students are selected for this program based on their undergraduate and prior graduate grade point average, Graduate Record Examination scores, letters of recommendation, personal statements describing their selection of a career in their chosen areas, writing samples, and personal interviews. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

Area A: Psychological Foundations (24 semester hours):

Biological Aspects of Behavior (3 hrs.)

- PGY 627 PROSEMINAR IN PHYSIOLOGICAL PSYCHOLOGY / PSY 627 PROSEMINAR IN PHYSIOLOGICAL PSYCHOLOGY

Human Learning, Cognitive & Affective Aspects of Behavior (9 hrs.)

- EDP 600 LIFE SPAN HUMAN DEVELOPMENT AND BEHAVIOR
- EDP 603 HUMAN COGNITIVE DEVELOPMENT
- EDP 614 MOTIVATION AND LEARNING

Social Aspects of Behavior (3 hrs.)

- EDP 513 SOCIAL ASPECTS BEHAVIOR

Individual Differences (6 hrs.)

- EDP 669 DIAGNOSTIC CLASSIFICATION IN SCHOOL PSYCHOLOGY
- EDP 616 MULTICULTURAL PSYCHOLOGY or PSY 779 TOPICAL SEMINAR IN SOCIAL PSYCHOLOGY

History & Systems of Psychology (3 hrs.)

- EDP 533 HISTORY AND SYSTEMS OF PSYCHOLOGY

Area B: Scientific Foundations (15 semester hours):

- EDP 558 GATHERING, ANALYZING & USING EDUC DATA
- EDP 656 METHODOLOGY OF EDUCATIONAL RESEARCH
- EDP 660 RESEARCH DESIGN AND ANALYSIS IN EDUCATION
- EDP 679 INTRODUCTION TO MEASUREMENT THEORY AND TECHNIQUES
- Approved Elective (EPE 620 ; EPE 621 ; EDS 633 ; EDP 711 ; EPE 763)

Area C: Professional Practice Foundations (43 Credit Hours):

Professional Identity (16 hrs.)

- EDP 570 INTRODUCTION TO PSYCHOLOGICAL SERVICES IN SCHOOLS
- EDP 658 PROBLEMS IN EDUCATIONAL PSYCHOLOGY (4 hrs.)
- EDP 622 SUPERVISION IN SCHOOL PSYCHOLOGY I: THEORETICAL MODELS OF PRACTICE / EDP 623 SUPERVISION IN SCHOOL PSYCHOLOGY II: APPLICATION FOR PRACTICE (3rd or 4th year seminar: 6 credit hours)
- EDP 770 LEGAL & ETHICAL ISSUES IN PROFESSIONAL PSYCHOLOGY

Diagnosis & Assessment (9 hrs.)

- EDP 640 INDIVIDUAL ASSESSMENT OF COGNITIVE FUNCTIONING
- EDP 642 INDIVIDUAL ASSESSMENT OF PERSONALITY FUNCTIONING
- EDP 776 SEMINAR IN SCHOOL PSYCHOLOGY (SUBTITLE REQUIRED)

Intervention (18 hrs.)

- EDP 670 PSYCHOEDUCATIONAL STRATEGIES OF INTERVENTION
- EDP 671 SEMINAR IN PSYCHOEDUCATIONAL CONSULTATION IN SCHOOLS
- EDP 704 SOCIAL JUSTICE CONSULTATION AND EVALUATION
- EDP 605 INTRODUCTION TO COUNSELING: TECHNIQUES I
- EDS 601 CONCEPTS AND PRINCIPLES OF APPLIED BEHAVIOR ANALYSIS
- EDP 680 PARENT AND CHILD COUNSELING

Area D: Educational Foundations (9 semester hours):

- EDC 619 ASSESSMENT OF READING GROWTH AND DEVELOPMENT
- EDC 732 CURRICULUM DESIGN FOR LEARNING AND LEADING
- EDS 611 CONTEMPORARY TRENDS AND ISSUES IN THE EDUCATION OF STUDENTS WITH MILD DISABILITIES.
- EDC 550 EDUCATION IN A CULTURALLY DIVERSE SOCIETY
- EPE 665 EDUCATION AND CULTURE
- EDS 522 CHILDREN AND FAMILIES
- EDS 600 SURVEY OF SPECIAL EDUCATION
- EDS 603 BEHAVIORAL CONSULTATION AND SUPERVISION
- EDS 595 SCHOOL LEVEL SERVICES AND FAMILY-SCHOOL COLLABORATION

Area E: Supervised Experience (18 hours):

Supervised Experience Component

- EDP 674 SCHOOL-BASED PRACTICUM IN SCHOOL PSYCHOLOGY (6 hrs.)
- EDP 675 PRACTICUM IN SCHOOL PSYCHOLOGY (6 hrs.)
- EDP 708 INTERNSHIP IN EDUCATIONAL, SCHOOL, AND COUNSELING PSYCHOLOGY (6 hrs.)

Electrical Engineering, PhD

The Department of Electrical and Computer Engineering offers advanced studies leading to either a Master of Science in Electrical Engineering or a Doctor of Philosophy in Electrical Engineering.

The Department of Electrical and Computer Engineering has active research programs in the following areas: power electronics, power systems, electromechanics, computer engineering, control systems, electromagnetics, electro-optics, micro and nano-electronics, signal processing, communication systems, and controls. Departmental laboratories are well-equipped for students' research. In addition, the Power and Energy Institute of Kentucky provides additional research opportunities.

Admission Requirements

A minimum grade point average of 3.0/4.0 on all undergraduate work is required for admission to the graduate program. A minimum GRE general test scores of 301 (combination of Verbal and Quantitative sections) and analytical writing of at least 2.5 for the M.S. degree. The corresponding minimum GRE scores for Ph.D. degree are 310 (V+Q) and 3.0 (Writing). Meeting the minimum requirements does not guarantee admission will be granted. Acceptance is based upon a competitive evaluation and on a space availability basis. An undergraduate degree in electrical engineering is preferred. Those applicants without a B.S.E.E. degree from an ABET accredited EE program should develop competence and demonstrate ability in the fundamentals of electrical engineering. Such students, before being admitted to full graduate standing within the department, must take (or have taken an equivalent of) a set of prescribed electrical engineering remedial courses. A minimum grade of C must be made in these courses.

Degree Requirements

For the PhD degree, students who only have a B.S. degree must complete 42 hours of course work. Students who have a M.S. degree from an accredited institution must complete 18 hours of course work. Students who have a M.S. degree from a non-accredited institution must complete 24 hours of course work.

In order to assure a minimum breadth and level of understanding at the graduate level, all EE graduate students must take three of six specified courses from the major areas of electrical engineering. These courses are:

- EE 611 DETERMINISTIC SYSTEMS
- EE 621 ELECTROMAGNETIC FIELDS
- EE 640 STOCHASTIC SYSTEMS
- EE 641 ADVANCED POWER SYSTEMS

- EE 661 SOLID-STATE ELECTRONICS
- EE 685 DIGITAL COMPUTER STRUCTURE

PhD students must also take a course in technical writing such as WRD 204.

English, PhD

The Doctoral Program in English at the University of Kentucky is designed to train students for the professoriate as both superb teachers and first-rate scholars through seminar work, qualifying exams in specific periods and subfields of literary study, and a long-form, original research project (the dissertation). The doctoral program is designed to lead to the PhD in five years of study beyond the MA degree. With a diverse range of graduate seminars and an active research faculty, the PhD program prepares students for a successful professional career in academia. Students can specialize in the fields of British, American, or Anglophone Studies. Students will gain a broad expertise that will prepare them for researching and writing the dissertation. We are committed to the professional training of our students, and they have been successful in gaining academic employment. With rare exceptions, all enrolled doctoral students are funded through TAs.

The department offers a wide variety of specializations not only in traditional literary history but also in film studies, cultural studies, African-American Studies, and Postcolonial Theory. The Department of English consists of 41 full-time faculty members who offer a range of courses in British, American, African-American, and Women's Literature, Creative Writing, Film, and Literary Theory. The graduate program relies on a nationally recognized faculty, a strongly supportive University of Kentucky Research Foundation, an active university press, and a research library of 1.2 million volumes.

Admission Requirements

Students eligible for the PhD program must have:

- A UGPA of at least 3.25 and a GGPA of at least 3.0. Unofficial transcripts from all attended institutions are required. If the student is admitted and accepts, the graduate school will require all official transcripts. University of Kentucky graduates should note their degrees on the application but are not required to submit transcripts.
- Three letters of recommendation, preferably from faculty familiar with the student's strengths and interests.
- A statement of purpose of no more than two pages that outlines what research interests the student expects to pursue for the PhD.
- A writing sample of approximately 20 pages that demonstrates the student's ability to carry out original research and make cogent arguments.
- A CV or resume.
- As of fall 2021, neither the general GRE nor the subject test in English is a required component of a student's application.

Degree Requirements

- Students are responsible for taking 36 residency hours prior to the qualifying exam, including 24 regular course hours (graduate seminars at the 600 and 700 level). Students on TAs (which includes virtually all PhD students) will enroll in various teaching practicums in order to teach for the department. All pre-qualifying residency hours should be completed in the first two years of the program. For a sampling of recent and current graduate seminars, please see here: <https://english.as.uky.edu/english-graduate-courses>
- By the third semester of the program, students should have assembled a doctoral committee consisting of three faculty members in the English department and one outside member from a discipline adjacent or relevant to the student's proposed research program. At least three members of the committee must be tenured faculty.
- In year three, students take a qualifying examination that consists of two parts: a 2-hour oral examination in a major and minor field (in the fall) and a dissertation prospectus defense (in the spring). In the fall, qualifying students enroll in ENG 700, an examination preparation and professionalization course. Once students have successfully completed the qualifying examination and prospectus defense, they move into the dissertation phase of the program.
- Students are expected to complete their dissertations in years 4 and 5. Once the dissertation is finished and the committee has decided the student is ready, the student will complete a dissertation defense. After a successful defense, the student will turn in the dissertation to the Graduate School and receive their doctoral degree.
- Students may take up to six credit-hours of courses at the graduate level outside of the English Department. They can also apply for a wide variety of graduate certificates, which typically require 9 to 15 hours of coursework. These certificates range from Gender and Women's Studies to Social Theory to Preparing Future Faculty. For a list of the available certificates, see here: <https://gradschool.uky.edu/graduate-certificates>
- For a fuller sense of what the English department doctoral program's requirements and expectations are, including sample timelines to degree, see here: <https://english.as.uky.edu/doctoral-program>

Entomology, PhD

The Department of Entomology has a rich legacy of vibrant scholarship and innovative education and outreach, coupled with strong commitment to graduate education. Individual graduate programs are planned by students in consultation with their advisory committees and the Director of Graduate Studies.

Entomology, like all agricultural and biological sciences disciplines, continues to evolve and integrate state of the art technology and new research perspectives with insect biology. Although departmental research is unified by a focus on insects and their arthropod relatives, many research groups creatively merge aspects of basic and applied biology. Graduate study and research opportunities are available in a diverse range of areas of entomology, including agricultural and urban entomology, biological control and integrated pest management, medical, veterinary, and public health entomology, pollinator biology and insect-plant relationships, forest entomology, and arachnology. Research covers many major fields of biology including behavior, biochemistry, ecology (including evolutionary, urban, landscape, and general ecology), genetics, neuroscience, molecular biology, physiology, toxicology, and systematics.

Graduate study and research opportunities are available in a diverse range of areas of entomology, including agricultural and urban entomology, biological control and integrated pest management, medical,

veterinary, and public health entomology, pollinator biology and insect-plant relationships, forest entomology, and arachnology. Research covers many major fields of biology including behavior, biochemistry, ecology (including evolutionary, urban, landscape, and general ecology), genetics, neuroscience, molecular biology, physiology, toxicology, and systematics.

Admission Requirements

A Bachelor's degree with an undergraduate GPA of 3.0 and GPA of 3.25 in all graduate level work are required. Graduate Record Examination scores are not required. Applicants whose native language is not English must have a Test of English as a Foreign Language (TOEFL) with a minimum score of 79 on the TOEFL-iBT. A minimum overall band score of 6.5 on the International English Language Testing System (IELTS) may be used in lieu of a TOEFL score. The Program requires three letters of recommendation. Meeting the minimum requirements does not guarantee admission. These minimum requirements may be waived in exceptional cases if sufficient additional evidence is presented regarding the ability of the student to do graduate work. Admission to the Graduate Program in Entomology does not automatically guarantee financial assistance to the student.

Degree Requirements

During their first year of graduate studies Ph.D. students complete a formal written research proposal encompassing a thorough literature review, clear statement of objectives, and materials and methods of the project. A research proposal seminar will be presented to the Department upon completion of the written research proposal. An exit seminar, usually presented during the last semester of the student's tenure, is required. In addition, the follow requirements must be completed:

- 36 credit hours prior to qualifying examination (Students who have completed a Masters degree can petition to waive 18 credit hours of pre-qualifying examination credits)
- STA 570 (Basic Statistical Analysis) or equivalent, or a different statistics course approved by the student's advisory committee
- Completion of courses in two of three Core Areas. Core Areas include diverse courses in 1) Insect Behavior, Ecology, Evolution and Systematics, 2) Insect Molecular Biology, Physiology and Genetics, and 3) Pest Management and Applied Ecology.
- Ph.D. candidates must take four semesters of Entomological Seminar (ENT 770), or seminars from other departments approved by the student's advisory committee
- Qualifying Examination
- Doctoral Dissertation

Epidemiology and Biostatistics, PhD

The PhD program in Epidemiology and Biostatistics is a joint degree program offered by the Departments of Epidemiology and Biostatistics in the College of Public Health. It is a dynamic doctoral program designed to

prepare independent researchers for careers in population health data science. This is unique, interdisciplinary program, offers coursework and experiential training in the application of methodological theory and concepts to address the practical challenges of conducting population-based, clinical and translational research. Graduates of this program are prepared for positions in the multidisciplinary work environments of academia, government, and industry. This doctoral program includes opportunities to engage in research teams, and offers an innovative and collaborative approach to cross-disciplinary training and mentoring with the intent of providing students with diverse exposure to emerging trends in public health and biomedical data.

Coursework in the Epidemiology and Biostatistics PhD program emphasizes the acquisition of methodological skills foundational to both epidemiology and biostatistics. Graduates of this program are expected to demonstrate expertise in methodologic approaches, problem conceptualization, ethics, and core public health knowledge for advancing population-based, clinical and translational science. As such, following completion of required coursework and examinations, students will be required to prepare a doctoral dissertation. The dissertation will represent publishable, independent research with scientific contributions in epidemiology, biostatistics, biomedical science, or public health.

Admission Requirements

The minimum GRE and GPA admissions requirements for the PhD in Epidemiology and Biostatistics program are the same as for the Graduate School. However, the number of admissions is limited and admissions decisions are made on a competitive basis. All applicants must have successfully completed two semesters of calculus and must have a master's degree in epidemiology, biostatistics, or related field.

Degree Requirements

Students will complete a minimum of 38 credit hours of coursework, including 15 credit hours of required program core, a minimum of 15 credit hours of electives in Epidemiology or Biostatistics, and a course in public health foundations.

The core curriculum includes foundational coursework in epidemiology and biostatistics theory, methodology, and application:

- EPI 714 EPIDEMIOLOGIC STUDY DESIGN (3 credits)
- EPI 715 RESEARCH METHODS IN EPIDEMIOLOGY AND BIOSTATISTICS (3 credits)
- EPI 717 INTRODUCTION TO CAUSAL INFERENCE (3 credits)
- BST 682 GENERALIZED LINEAR MODELS (3 credits)
- BST 762 LONGITUDINAL DATA ANALYSIS (3 credits)

Students are required to successfully pass an examination that includes content from the core courses.

Electives in epidemiology and biostatistics should be selected to support doctoral research and to develop focused methodology and subject matter expertise. All electives must be approved by the DGS.

Upon successful completion of coursework and examinations, students are expected to form a doctoral advisory committee. Prior to initiating dissertation work and enrolling in residency (CPH 767, minimum requirement of 2 semesters), students will be required to pass an oral qualifying exam, scheduled by the Graduate School and administered by doctoral advisory committee. The qualifying exam will include written materials to support the oral exam, which is comprised of the dissertation proposal and preliminary doctoral research.

Program website: <https://cph.uky.edu/academic-programs/phd-epidemiology-and-biostatistics>

Exercise Science, PhD

The Ph.D. program offers areas of concentration in Biomechanics or Exercise Physiology. The goal of the program is to provide education to qualified students so that they will have a broad understanding of exercise science, as well as an in-depth knowledge of one specific area or discipline. Graduates of this program will be able to conduct exercise science and/or biomechanics research, teach at the university level, direct discipline specific educational programs, and collaborate with other professionals on various issues related to exercise science/biomechanics. For more information on each concentration area, please visit the departmental website: <https://education.uky.edu/khp/grad/>

Objectives of the program:

- Provide a multidisciplinary doctoral program in exercise science with coordinated and expanded course offerings to meet the varied needs and interests of students wishing to pursue a research and/or academic career in the exercise science areas of exercise physiology, biomechanics, and motor control. • develop scientific expertise and knowledge of resources which will enable students to conduct independent research in their given area of expertise.
- Foster cooperative interdisciplinary research.
- Provide opportunities for critical interdisciplinary evaluation of current research trends.
- Participate in guided research projects of sufficiently complex scope and design to prepare students for conducting their own research.
- Prepare leaders to educate others in the area of exercise science

Admission Requirements

•CV

• Personal Statement: Submit a statement of your professional aspirations and explain how you believe graduate study at the University of Kentucky will enhance your ability to achieve those professional goals. In your statement, provide information about your background, research skills and experiences, personal and professional achievements, and educational, work or life experiences that influenced you and your life goals.

• Writing Sample: Students who have not written a Master's level thesis will be required to submit an example of their research writing. A literature review or project from a completed class are acceptable

examples for submission for application. Special circumstances will be considered at the discretion of the applicant's designated potential advisor.

- A Master's degree or graduate level professional (e.g. M.D.) degree from a fully accredited institution of higher learning.
- The Graduate School of the University of Kentucky requires an overall grade point of 3.0 on all prior graduate work and a 2.75 from undergraduate work.
- For the Graduate School, the minimum acceptable TOEFL score is 550 (paper-based) 213 (computer-based), or 79 (internet-based). The minimum IELTS score is 6.5; Submitted scores must be no more than two years old.
- GRE: Not required.
- Four letters of recommendation are required. A minimum of 3 out of 4 of these letters must be submitted by someone with a terminal degree (i.e. Ph.D., M.D., Ed.D., etc.) and must be from a person with direct knowledge of the applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

Degree Requirements

A minimum of 36+ credit hours are required prior to sitting for the qualifying exam, followed by the completion of a dissertation. Determination of a student's particular course plan is made in consultation with the student and his or her approved advisory committee. The dissertation is guided and ultimately approved by the student's dissertation committee.

The Exercise Science Core includes 18+ hours and provides the student with a broad understanding of the various disciplines involved in this field. Each student is also required to take a minimum of 6 hours in research/statistic course work. Beyond this minimum, an advisor and committee in consultation with each student set the structure and content of the doctoral program. The number of formal courses within each area of specialization may vary. It is expected that the depth of knowledge in each area of study comes from independent study and research experiences, in addition to the dissertation, which are all under the direction of the faculty. Each student will demonstrate their depth of knowledge by their qualifying exams. Typically, it will take from 3-5 years for the student to complete the degree requirements including the dissertation.

Family Sciences, PhD

The doctoral program is a research-based curriculum that provides a strong foundation in theory, research methods, statistics, and teaching opportunities. It is designed particularly for those desiring a research career in family science, including positions at colleges and universities, program evaluation positions in public and private settings focusing on individuals and the family, and administrative positions in public and private human services prevention and intervention.

Areas of emphasis within the doctoral program are: (a) adolescent development, (b) aging, (c) family finance and economics, and (d) family processes.

Admission Requirements

Applicants must submit a statement of clearly developed academic and research goals for the Ph.D. degree, three letters of recommendation, transcripts of all graduate and undergraduate work with a minimum grade point average (GPA) of 3.0 out of 4.0, and Graduate Record Examination (GRE) scores. Master's level practitioners, educators, and researchers in the social sciences are best suited for the doctoral program. Previous research experience is desirable, but not required. Although students generally must have a master's degree prior to admission into the doctoral program, particularly outstanding applicants who have earned a bachelor's degree but not a master's degree may be considered for admission into the doctoral program. Admissions are conducted one time each year; the application deadline is January 15 for admission Fall Semester of the same calendar year. See <https://fam.ca.uky.edu/content/doctoral-program> for details.

Degree Requirements

Credit Requirements:

- Minimal coursework requirements prior to the qualifying examination include 2 years of residency and 36 credit hours, comprised of 20 credit hours of foundational courses (if not taken in master's program), 9 hours of research methods and theory, 9 credit hours of statistics, 8 credit hours of professional development, and 15 credit hours in a specialization area.

Course requirements:

- Research Methods(minimum 9 credit hours)
 - FAM 790 ADVANCED RESEARCH METHODS IN FAMILY SCIENCES (3)
 - One Qualitative Method(3)
 - One Quantitative Method(3)
- Statistics(minimum 9 credit hours)
 - FAM 777 APPLIED STATISTICS IN FAMILY SCIENCE (4)
 - Two Additional Statistics Courses(6)
- Professional Development(minimum 8 credit hours)
 - FAM 775-002: Professional Development Seminar II (1)
 - FAM 785 ADVANCED PROBLEMS IN FAMILY SCIENCES (teaching apprenticeship) (1)
 - FAM 786 TEACHING PRACTICUM IN FAMILY SCIENCES (supervised teaching) (3)
 - FAM 784 RESEARCH PRACTICUM IN FAMILY SCIENCES (qualifying exam) (3)
- Area of Specialization(minimum 15 credit hours)
 - Adolescent Development
 - Aging
 - Family Finance and Economics
 - Family Processes
- Foundational required unless approved from master's degree
 - FAM 601 FAMILY PROCESSES (3 credit hours)
 - FAM 652 READINGS IN FAMILY THEORY AND RESEARCH (3)
 - FAM 654 THE LIFE COURSE PERSPECTIVE ON FAMILIES AND INDIVIDUALS (3)
 - FAM 668 ALLOCATION OF FAMILY RESOURCES (3)
 - FAM 690 RESEARCH METHODS IN FAMILY SCIENCE (3)
 - FAM 775 SEMINAR IN HUMAN DEVELOPMENT AND FAMILY RELATIONS (1)
 - Basic Master's-level Statistics Course(3)

Program Websites

- For an overview of the Doctoral program in Family Sciences please visit: <https://fam.ca.uky.edu/content/doctoral-program>
- Doctoral Curriculum Requirements can be found on the following website: http://fam.ca.uky.edu/sites/fam.ca.uky.edu/files/d-curriculum-requirements_4-10-18.pdf

Forest and Natural Resource Sciences, PhD

The PhD in Forest and Natural Resource Sciences (FNRS) is offered by the Department of Forestry and Natural Resources. A goal of the Forest and Natural Resource Sciences Graduate Program is to contribute to improved forest health and management through enhanced understanding of relevant ecological and social benefits and constraints. Consequently, a student's degree program may be directed toward any of the disciplinary or interdisciplinary fields in Forest and Natural Resource Sciences, which range from molecular to landscape and societal levels. The Program's current research has particular strengths in southern Appalachian hardwood forest ecology and management, forest hydrology and watershed management, reforestation and mine reclamation, invasive species and forest health, animal ecology and management, and human dimensions including forest policy and economics.

Admission Requirements

Applicants for admission to the PhD program in Forest and Natural Resource Sciences degree program must hold (by the time of enrollment in the program) an awarded four-year baccalaureate degree from an accredited institution of higher learning. Holding a MS degree is preferred, but not required. Students with undergraduate and MS degrees in forestry or another natural resource field, natural sciences (biology or chemistry) or social sciences may be admitted to the program as long as the student has secured an advisor to mentor them. Undergraduate and graduate students are expected to have an overall grade point average of 3.00 and a minimum combined verbal and quantitative score on the Graduate Record Examination (GRE) of 297.

More detailed information concerning the Forest and Natural Resource Sciences Graduate Program's admission procedures, assistantships, and degree requirements may be obtained at <http://forestry.ca.uky.edu/forestry-graduate-program>. Specific area(s) of interest of our individual faculty members can be found at: <http://forestry.ca.uky.edu/faculty>.

Degree Requirements

Total credit hours: 36

Core requirements include: All Forest and Natural Resource Sciences graduate students take: 1) FOR 601 RESEARCH METHODS IN FORESTRY, 3 credits; 2) FOR 602 RENEWABLE NATURAL RESOURCES IN A GLOBAL PERSPECTIVE, 3 credits; 3) FOR 603 FOUNDATIONS IN FORESTRY, WILDLIFE AND NATURAL RESOURCE SCIENCES, 3 credits and 4) FOR 770 FORESTRY SEMINAR (SUBTITLE REQUIRED), three times 3 credits total.

Students focus their remaining coursework (24 credits) requirements by taking 500, 600 or 700 levels courses through various departments at UK. For more details: <http://forestry.ca.uky.edu/phd-program>

Program Websites: <http://forestry.ca.uky.edu/forestry-graduate-program>

Gender and Women's Studies, PhD

The graduate program in Gender and Women's Studies at the University of Kentucky aims to train cutting-edge scholars in feminist, gender, and sexuality studies. We are deeply committed to the academic innovations in both women's studies, in which lived experiences of women worldwide are honored and used to expand traditional disciplinary knowledges, and gender studies, which examines how we ascribe gendered meanings to everyday objects, experiences, and relationships across space and time. Our curriculum is shaped by an intellectually and culturally diverse faculty whose areas of expertise complement each other in ways to ensure that students gain a variety of knowledge and skills. These include the areas of transnational perspectives, critical theory, affect theory, social justice frameworks, and interdisciplinary methodologies. Our faculty actively publish and teach across a broad range of topical area including studies of violence, social movements and activism, the law, reproductive justice, education, disability, masculinities, migration, body, popular culture, sexualities, queer theory, science, and health.

The Ph.D. program is designed to familiarize students with (1) fundamental concepts, theories and frameworks for scholarly feminist inquiry, and (2) different approaches to inquiry and research in gender and women's studies. Students will learn to critically interpret and evaluate feminist theories, methods, and arguments; analyze relations of power marked by gender and other social distinctions and processes including age, class, colonialism, ethnicity, national origin, race, region, religion, and sexuality; and conduct and communicate advanced research in gender and women's studies.

Admission Requirements

- Applicants for the Ph.D. degree program may be accepted from any undergraduate degree field. Applicants will be accepted into the program with or without an M.A. or equivalent advanced degree. For students without an M.A., the degree will be earned as part of their Ph.D. program.
- Applicants should have a 3.0 or higher undergraduate GPA and, if relevant, a 3.2 or higher graduate GPA. In addition, students must submit a personal statement, resume or vitae (CV), writing sample, three letters of recommendation, and official undergraduate and graduate (if relevant) transcripts.

Degree Requirements

The Ph.D. program requires 36 credits of coursework plus a minimum of 4 dissertation residency credits.

Students must complete:

- A two course sequence on feminist theory: Feminist Theory (GWS 650) and History of Feminist Thought (GWS 640)
- Two courses in methods/skills training (GWS 630 and an additional GWS or approved course)
- Two GWS "area" pro-seminars (GWS 600, GWS 700), which include topical areas in gender, women's and sexuality studies
- Elective courses in GWS or other disciplines, determined in conjunction with the student's advisory committee

<https://gws.as.uky.edu/graduate-program-gws>

Geography, PhD

The PhD in Geography is designed to develop the theoretical, conceptual and methodological training necessary for students to make original contributions to geographic knowledge. The University of Kentucky's Department of Geography is known for high quality research and education in human geography, physical geography, and mapping. Program strengths include close faculty/student interaction, flexibility in designing an appropriate plan of study, and research training in seminar environments.

A variety of philosophical and methodological approaches are encouraged to prepare students for research-oriented careers in universities, government, and industry. Emphasis is placed on theoretical and methodological training and is closely integrated with both breadth and depth in substantive literatures. Student research also is empirically rich, with data regularly acquired through off-campus fieldwork. Members of the faculty are committed to assisting students in disseminating their research through publications in professional journals and presentations at conferences, and in obtaining external funding. Graduate students also gain valuable experience as instructors in undergraduate courses. Rounding out graduate students' experiences is their active participation in departmental governance and service on departmental committees.

Faculty and student research in the Department focuses on interrelated thematic clusters in accordance with the current interests of graduate students and faculty. The clusters facilitate collaborative scholarship though they typically do not function as formal research teams. The clusters tend to work as loose and overlapping intellectual communities that can incorporate working groups, reading groups, and collaborative projects, and they give a sense of the breadth of the research conducted in the department. The research clusters we presently feature are: Black Geographies, Critical Financial Geographies, Critical Mapping and GIS, Digital Geographies, Environmental Geographies, Political Ecology, Political Geographies, Queer and Feminist Geographies, Social Theory and Urban Geographies. Descriptions of each cluster and their associated faculty are available at <https://geography.as.uky.edu/geography-research-clusters>

Admission Requirements

We accept applicants holding Master degrees in any field. In addition to UK Graduate school required materials, applicants should also provide

- A statement of goals and objectives in which you discuss your areas of scholarly interest, research directions you wish to pursue, and how your goals fit in with the Department of Geography.
- A current resume or curriculum vitae.
- Three letters of references from persons who can evaluate your potential for success in our graduate program.

More details are available at <https://geography.as.uky.edu/admissions>

Degree Requirements

- Students are required to take GEO 600 INTRODUCTION TO METHODS IN GEOGRAPHY
- Students are required to take GEO 702 CONCEPTS IN GEOGRAPHY
- Students are required to take GEO 705 ADVANCED GEOGRAPHIC METHODS (SUBTITLE REQUIRED)
- Students are required to take Three one-credit hour Professional Development Courses
 - GEO 741 TEACHING PRACTICUM
 - GEO 742 PREPARING FUTURE FACULTY IN GEOGRAPHY
 - GEO 743 RESEARCH PROPOSALS AND GRANT WRITING
- Students are required to prepare a dissertation research proposal and meet with their advisory committee prior to preparing for their qualifying exam.

Geological Sciences, PhD

The Department of Earth and Environmental Sciences offers graduate studies leading to the M.S. and Ph.D. degrees in Geology. Students with degrees in geology, any other natural science, or engineering are invited to apply.

Research within the Department of Earth and Environmental Sciences is funded by grants and contracts from NSF, DOE, PRF, and other federal, state, and industrial sources. Areas of graduate research are in fields covered by regular and adjunct faculty, including coal geology, hydrogeology, stratigraphy, petrology, geophysics, and tectonics.

Admission Requirements

Admission to pursue an M.S. or Ph.D. degree requires a bachelor's degree, a minimum grade point average of 2.75, three letters of reference and results from the verbal, quantitative, and analytical Graduate Record Examination (GRE). TOEFL scores are required for international applicants. For more details, please consult Admissions Information and Assistantships and Fellowships.

Admission criteria include GPA, GRE scores, prior course work, letters of reference, previous experience, and match with faculty research interests. This program requires an undergraduate GPA of at least 3.0 on all undergraduate and graduate work. For international applicants, we require that applicants rank in the top 25% of their graduating classes.

GRE must be taken, but there is no minimum score. Applicants who score at least 75th percentile on one category of the GRE and who have (a) an overall undergraduate GPA of 3.30, (b) a GPA of 3.60 for the last 60 credit hours of undergraduate work, or (c) a GPA of 3.80 for a completed master's degree (in each case from a US institution) are eligible for a Pirtle Fellowship, which provides \$3,000 in summer salary. Most applicants have a "standard" geology background, but strong students with backgrounds in the sciences and engineering are also admitted. Spoken English proficiency is important because many of our graduate students are employed as teaching assistants (in particular, as laboratory instructors). For international applicants, the Graduate School requires a minimum score of 550 on the TOEFL (213 on the computerized version; 79 on the internet-based version) or 6.5 on the IELTS. We typically only consider admission to the

PhD program after completion of a master's degree either here at UK or at another US or European institution. Students who are deficient in one or more respects may be admitted provisionally or as non-degree students by action of the Graduate Committee. Your chances of admission are better if you've identified faculty members with whom you might work. We recommend you consult our faculty research specialties at <https://ees.as.uky.edu/faculty> and directly contact faculty in your areas of interest.

Degree Requirements

The Doctor of Philosophy in Geological Sciences requires candidates complete at least 36 hours of prequalifying graduate course work, including that taken for a master's degree (which counts for 18 hours) and at least 2 semesters of EES 767 following the qualifying exam. Ph.D. students must take 3 credits of EES 695 (Scientific Communication), unless they have already completed these requirements as a student in the M.S. program. The normal full-time load is 3 courses (usually 9-10 credits) each semester, and no more than 12 credits per semester should be taken. Individual Work in Geology (EES 782) and Research in Geological Sciences (EES 790) will include data collection (field, laboratory, and/or library) and must not duplicate dissertation research. A research plan must be approved by a faculty member, who will direct the research, as well as the DGS. The faculty member who directed the research will provide a final evaluation of the project. The evaluation will be conveyed to the DGS.

Gerontology, PhD

The PhD program in gerontology employs a curriculum designed to establish the knowledge base and especially the thinking/methodological skills necessary to successfully contribute to gerontology scholarship. The curriculum consists of 41 hours of course work plus directed studies and research within a program of study that involves six interlocking elements:

- a required core in gerontology
- specialized coursework in a substantive thematic research domain
- training in appropriate and supportive research methods
- grounding in public health concepts
- a qualifying examination
- a dissertation

Admission Requirements

The Ph.D. Program in Gerontology encourages applications from individuals having expressed interests in advanced theoretical and research-based studies of aging processes or aged individuals and populations. Complete applications that will be considered for admission to the Gerontology Program must include:

- Application Form and fee payment
- Official transcripts of all colleges and universities attended
- Official report of the Graduate Record Examination (GRE)

- (International Students) Official TOEFL report
- At least three (3) letters of reference
- Personal statement of interests, doctoral study plans, and career goals.

Students are encouraged to submit samples of scholarly writing, and are strongly encouraged to visit the program before admission decisions are made. All complete applications will be evaluated not only for evidence of strong academic accomplishment and high professional standards, but for evidence of a strong potential for success in advanced graduate studies and careers in gerontology-related fields.

Degree Requirements

The PhD program in gerontology employs a curriculum designed to establish the knowledge base and especially the thinking/methodological skills necessary to successfully contribute to gerontology scholarship.

Program Curriculum

The following curricular requirements are presented as a guide to your matriculation through the program. Depending on your previous coursework, there may be changes and alternatives suggested by your advisor.

<u>Required Courses</u>	<u>Elective Courses</u>
GRN 600 A STUDY OF THE OLDER PERSON (3)	Work with your advisor and DGS to identify appropriate electives.
GRN 620 HUMAN AGING AND ADJUSTMENT (3)	<i>Subtotal: Elective Hours (15)</i>
GRN 650 RESEARCH DESIGN IN GERONTOLOGY (4)	
GRN 656 INTEGRATIVE STUDIES IN GERONTOLOGY (3)	<u>Teacher Training (optional)</u>
CPH 603 INTRODUCTION TO DATA ANALYSIS FOR PUBLIC HEALTH (3)	GRN 616 TEACHING SEMINAR IN GERONTOLOGY (2)
Additional Methods Courses (6)	GRN 617 TEACHING PRACTICUM IN GERONTOLOGY (3)
CPH 605 EPIDEMIOLOGY (3)	<i>Subtotal: Teacher Training Hours (5) (optional)</i>
CPH 663 INTRODUCTION TO PUBLIC HEALTH PRACTICE AND ADMINISTRATION (1)	
<i>Subtotal: Core Hours (26)</i>	
	<u>Total Minimum Hours Required for Degree (41)</u>

Health Services Research, PhD

The PhD program in Health Services Research at the University of Kentucky College of Public Health prepares professionals for a career in conducting data-driven health services research. This unique program strongly emphasizes applied health services research skills, including study design, data management, statistics and other quantitative methods. Students may choose from one of two disciplinary concentrations: health economics or health outcomes.

Graduates will be prepared to address the practical challenges of conducting health services research in the multidisciplinary research environments of academia, government, consulting and industry. The mentored research program will prepare independent researchers skilled at designing and conducting health services research, leveraging a variety of study designs, primary data collection approaches, and primary and secondary databases to inform healthcare delivery and health policy.

Admission Requirements

- SOPHAS application (deadline June 1 for US applicants; April 1 for international applicants)
- Master's degree in a related field
- Prerequisite courses or their equivalent (Foundations of Public Health, Epidemiology, Biostatistics)
- Personal Statement
- The PhD HSR program is test optional for fall 2021 applicants. You may submit GRE or GMAT scores if you wish.
- Official TOEFL or IELTS score for international students
- Official transcripts from all previously attended institutions
- International transcripts (International Students ONLY - must be evaluated by WES)
- Three recommendations (contact information only) - at least one from a faculty member who taught or supervised applicant;
- CV/Resume

Students who are admitted to the PhD program will be required to complete a secondary UK Graduate School application at least one month before the start of classes to accept admission to the program.

Degree Requirements

Program Curriculum

Semester 1 (Fall Year 1): 12 credit hours

- HSR 700 HEALTH SERVICES RESEARCH AND THEORY (3 credit hours)
- CPH 712 ADVANCED EPIDEMIOLOGY (3 credit hours)
- Concentration Course (3 credit hours)

- Intermediate Statistics Course (3 credit hours)
- HSR 701 HEALTH SERVICES RESEARCH JOURNAL CLUB (0 credit hours)

Semester 2 (Spring Year 1): 12 credit hours

- CPH 635-201 Databases and SAS Programming (3 credit hours)
- EPI 714 EPIDEMIOLOGIC STUDY DESIGN (3 credit hours)
- Concentration Course (3 credit hours)
- Concentration Course (3 credit hours)
- HSR 701 HEALTH SERVICES RESEARCH JOURNAL CLUB (0 credit hours)

Semester 3 (Summer Year 1): 3 credit hours

- HSR 720 DIRECTED RESEARCH (3 credit hours)

Semester 4 (Fall Year 2): 12 credit hours

- HSR 705 HEALTH SERVICES RESEARCH METHODS (3 credit hours)
- Methods Course (3 credit hours)
- Concentration Course (3 credit hours)
- HSR 720 DIRECTED RESEARCH (3 credit hours)
- HSR 701 HEALTH SERVICES RESEARCH JOURNAL CLUB (0 credit hours)

Semester 5 (Spring Year 2): 11 credit hours

- Advanced Statistical Analysis Course (3 credit hours)
- Elective Course
- HSR 720 DIRECTED RESEARCH (3 credit hours)
- HSR 725 DEVELOPING PROPOSALS FOR HEALTH SERVICES RESEARCH (2 credit hours)
- HSR 701 HEALTH SERVICES RESEARCH JOURNAL CLUB (0 credit hours)

Semester 6 (Summer Year 2)

- Doctoral Candidate Examination
- Dissertation Proposal Defense

Semesters 7 (Fall Year 3): 2 credit hours

- CPH 767 DISSERTATION RESIDENCY CREDIT (2 credit hours)

Semester 8 (Spring Year 3): 2 credit hours

- CPH 767 DISSERTATION RESIDENCY CREDIT (2 credit hours)
- Dissertation Defense

Hispanic Studies, PhD

Admission Requirements

We require a B.A. in Hispanic Studies or a related area, demonstrated fluency in Spanish and English, strong letters of reference and a representative research essay from the candidate's prior academic work. Graduate Record Examination scores are required for admission. Foreign students must pass the TOEFL with the minimum required score of 550 on the paper version of the exam, 213 on the computer version, or 79 on the Internet/IBT version. Supervised teaching experience within the department is a requirement for both the M.A. and Doctoral degrees.

Degree Requirements

54 credit hours (18 courses) of which four courses are required: successful completion of SPA 553 TEACHING OF SPANISH, SPA 600 INTRODUCTION TO SPANISH LINGUISTICS, SPA 606 INTRODUCTION TO CRITICAL THEORY AND CULTURAL STUDIES and SPA 770 INTRODUCTION TO HISPANIC STUDIES. Of the remaining 15 courses, 5 must be in the major field of concentration (with two of these at the 700 level). 4 courses must be in the allied fields, and 2 in a minor field (outside the department). Additionally, the student must demonstrate reading knowledge of one language other than Spanish and English. The successful candidate will defend a dissertation prospectus, successfully complete Parts A and B of the Doctoral Qualifying Exam, and defend a dissertation.

Candidates are expected to devise a program of study and research around the major area of specialization. Two minor areas (in Hispanic literature and culture or Linguistics) and one allied field (related to the dissertation work) must be selected as support divisions for the major area. Minimum graduate credit expectations are 24 credit hours in the combined Major and Minor areas and 12 credit hours in the Allied Fields; 6 graduate credits in each of the two remaining areas not chosen as Major, Minor, or Allied Fields. Two seminars (one in the major field) are required.

Specialization by area:

- 1) Medieval Spanish Studies;
- 2) Renaissance and Early Modern Spanish Studies;
- 3) Eighteenth and Nineteenth Century Spanish Studies;
- 4) Twentieth and Twenty-First Century Spanish Studies;
- 5) Colonial and Nineteenth Century Spanish American Studies;
- 6) Twentieth and Twenty First Century Spanish American Studies.
- 7) U.S. Latino Studies

The dissertation focus may combine Hispanic literature and film, Hispanic literature and Fine Arts, Hispanic literature with a second literature, literature and popular culture, or literature and theory. Students are encouraged to explore topics in Transatlantic Studies, and to make use of the programs in Social Theory, Gender and Women's Studies, Latin American Studies, Environmental Studies and Appalachian Studies in considering transdisciplinary possibilities for their doctoral theses.

The Doctoral Qualifying Examination consists of two parts. Part A is a written exam and a two hour oral exam based on the reading list and the prospectus the student has created under the supervision of the dissertation committee. The written exam is structured as follows: a take-home exam in the areas of the dissertation and the extra-disciplinary Minor Field, and an additional ten hours to test the student's knowledge in his/her area of general specialization, and the additional three areas (Major and Allied Fields) on which the student has chosen to concentrate. In order to take this exam, the student needs to have submitted a written prospectus and a reading list to the dissertation committee at least two months before scheduling the exam.

Part B of the qualifying examination will take place during the semester following Part A. The student will present either a fully written introduction or a sample dissertation chapter to the dissertation committee. Acceptable Progress towards the Dissertation: The ABD student is required to establish and maintain an acceptable timeline for completing the dissertation. The Department expects that the student complete at least one dissertation chapter per semester until the dissertation is completed. It is hoped that the student will complete the dissertation within two years after the qualifying exams.

History, PhD

Students in the History PhD program pursue careers both as academic historians at colleges and universities and as researchers and scholars with libraries and archives, historical societies, and other public and private institutions. The department aims to train its students to be researchers, teachers, and engaged citizens, and the core of the graduate program is built around graduate research and readings seminars. Students must excel in these courses to be prepared to advance to the qualifying exam and the doctoral dissertation.

Admission Requirements

Students applying for the PhD program must have earned an MA degree in History at the University of Kentucky or at another doctoral institution. Applicants who wish to be considered for financial assistance and fellowships should review the department's web-site for specific deadlines. For additional information on application procedures and requirements, consult: <https://history.as.uky.edu/admission>

Degree Requirements

The doctoral program consists of two stages. One involves meeting specific requirements leading to the qualifying examinations, which include:

- HIS 606 (unless the student has taken it for the M.A. degree)
- HIS 750, a one-credit Professional Development Seminar
- Complete a minimum of eight 600- and 700-level reading seminars. (HIS 606 counts toward this requirement; HIS 750 does not; HIS 695 independent study courses do not unless approved by the DGS.) Students who have completed their M.A. degrees at UK may apply all 600- and 700-level seminars completed as an M.A. student toward this requirement.

- Two 700-level research seminars. Students who have completed two 700-level seminars while earning the M.A. at UK need take only one additional research seminar. Students who have written an M.A. thesis in History at another institution may petition to take only one 700-level research seminar
- Achieve a grade point average of 3.6 or higher in the 600- and 700-level seminars
- Meet specific field requirements. Students specializing in U.S. history must take HIS 640 and HIS 641, an additional readings seminar in the pre-1877 period, and an additional readings seminar in the post-1877 period; students specializing in pre-modern and early modern European history must take a minimum of one semester of HIS 705, the Pre-Modern European Colloquium (unless is not offered).
- Satisfy the foreign language requirement as outlined in the Graduate School Bulletin

A second set of requirements pertains to the post-qualifying examination stage of doctoral study. These requirements include:

- Prepare and defend a dissertation prospectus
- Enroll in HIS 767 for two credit hours each semester until finishing the dissertation
- Research, write, and defend a dissertation.

More information about the History PhD program and its requirements can be found at <https://history.as.uky.edu/history-graduate-program/history-graduate-handbook>

Integrated Plant and Soil Sciences, PhD

The interdepartmental graduate program in Integrated Plant and Soil Sciences offers graduate work leading to the Doctor of Philosophy degree with specialization in Crop Science (including weed science and forages), Environmental Science and Ecosystem Ecology (including ecotoxicology, biogeochemistry, environmental chemistry, and ecosystem modeling), Horticultural Science, Plant Biology (including biochemistry, molecular biology, physiology, and seed biology), and Soil Science (biogeochemistry, chemistry, fertility, microbiology, pedology, physics, and rhizosphere science).

With their degree, students will acquire an extensive knowledge of the sciences and technology that support research, education, and technological innovation in plant, soil, and environmental sciences. They will be conversant with the literature, current concepts, and experimental and analytical methods that support research, teaching, and technological innovation in plant, soil, and environmental sciences, and in their application to agriculture and the environment. They will develop skills in critical and analytical thinking and in multiple forms of communication that may be applied to research, education, industry, government, and public service. They will have acquired those elements of professionalism necessary for rewarding and developing careers in plant, soil, and environmental sciences in research, education, production agriculture, agribusiness, government, and public service.

Graduate faculty belong to the Departments of Forestry and Natural Resources (<https://forestry.ca.uky.edu/>), Horticulture (<https://www.uky.edu/hort/>), and Plant and Soil Sciences (<https://pss.ca.uky.edu/>) in the College of Agriculture, Food, and Environment

Financial aid and the research interests of participating faculty can be found on the websites of the participating departments.

Admission Requirements

All students with strong training in science, including but not limited to baccalaureate degrees in agronomy, biology, chemistry, and horticulture are encouraged to apply. Admission to the IPSS Program is competitive and based on the applicant's undergraduate and graduate records, performance on standardized exams if submitted, and letters of recommendation.

Applicants must have an identified research advisor prior to admission to the program.

It is expected that applicants will meet the minimum standards established by the University of Kentucky Graduate School.

Applicants will automatically be considered for departmental research assistantships, which are awarded on a competitive basis.

So that all entering Ph.D. students are at an academic level to successfully complete course requirements, the following courses or their equivalent should have been completed prior to admission: 1. Chemistry - a first semester course in organic chemistry (equivalent to CHE 230); 2. Calculus - a first semester course (equivalent to MA 113); 3. Physics - a first semester course (equivalent to PHY 201).

For PhD students with a specialization in Soil Science, the following additional preparation is suggested: 1. Chemistry - Analytical Chemistry (equivalent to CHE 226) and Organic Chemistry (equivalent to CHE 230 or 236); 2. Introductory Soil Science with a lab (equivalent to PLS 366) and at least two additional soils courses; 3. Biology, two courses in basic biology (equivalent to BIO 151/152) and two additional courses in crop science, plant biology, or microbiology; 4. Statistics, including regression and experiment design (equivalent to STA 570, STA 671, and STA 672). Students are expected to make up deficiencies in these courses within one year of enrollment.

Degree Requirements

For the Ph.D. degree

- A minimum of 36 credit hours of graduate level work of which 18 hours of course work are in residence at the University of Kentucky
- Create a discipline-specific committee (consistent with Graduate School Requirements - 4 members for the PhD Program), and an individualized program of study within one year
- Satisfy basic Graduate School requirements for residency, examination, and good standing
- Have a minimum GPA of 3.0 at graduation
- Successfully complete an oral and written qualifying exam
- Successfully defend the dissertation, present an exit seminar, and submit an approved dissertation.

Required courses include IPS 610, IPS 625, PLS 772, and at least one graduate level statistics course. Additional coursework may be required by the student's dissertation committee.

Details regarding the curriculum, program areas, and areas of specialization can be found in the student handbook.

Graduate students in IPSS have flexibility in designing course work to suit individual goals, but are expected to demonstrate competence in basic areas of plant and soil science and excellence in their chosen area of specialization as demonstrated by novel research leading to a published dissertation.

General information on electives and potential courses can be found at <https://ipss.ca.uky.edu/>

Incoming students are informed of the graduate-school and program-specific academic policies at an orientation held before classes begin each fall. A handbook is also on the IPSS website.

Materials Science and Engineering, PhD

The Department of Chemical and Materials Engineering offers programs leading to the M.S. and Ph.D. degrees in Materials Science and Engineering, with research specialization in the following areas:

- Ceramics
- Electronic Materials
- Metals and Alloys
- Micro-Materials
- Nanomaterials
- Polymers and Composites
- Surfaces and Interfaces
- Thin Film

Admission Requirements

Admission to the M.S. and Ph.D. degree programs is on a competitive basis, and financial assistance is available through teaching and research assistantships, as well as a limited number of fellowships. Applicants should have a minimum grade point average of 3.0/4.0 on all undergraduate work. Persons with backgrounds in any physical science or engineering discipline are encouraged to apply, as each applicant's qualifications are reviewed individually. Minimum requirements for admission include a bachelor's degree and four semesters of university-level calculus, calculus-based physics, and chemistry. Please note that meeting the minimum requirements does not guarantee admission, as acceptance is on a competitive and space-available basis.

Degree Requirements

The Ph.D. program offers broad training in materials science and engineering while providing options to suit the student's particular interests and designated area of specialization. The student must conduct original and significant research and must submit and defend a dissertation based on that research. Doctoral students complete the materials science core, and work with their doctoral advisory committee to develop a program of elective courses designed to address deficiencies and to enhance the specialization area of interest. In addition, students must demonstrate proficiency in a minor area selected from the fields of mathematics, physical sciences, or engineering.

In order to advance to candidacy, doctoral students must pass an oral qualifying examination that tests the candidate's knowledge in three fundamental areas of Materials Science and Engineering: Structure of Materials, Mechanical Behavior of Materials, and Thermodynamics of Materials. There is no language requirement for the M.S. or Ph.D. degrees in Materials Science and Engineering.

Mathematics, PhD

The Mathematics PhD is a research degree granted on the basis of broad mathematical knowledge and exhibited creative ability. Course work leading to the doctorate is available in the areas of algebra, analysis, applied mathematics, discrete mathematics, numerical analysis, partial differential equations, and topology. In order to be admitted to candidacy for the PhD degree, a student must complete studies in a minor field (either inside or outside the department) and successfully complete three written preliminary examinations. Subsequent work becomes highly specialized through seminars and independent study. Finally, work on a dissertation is an original contribution to the candidate's major field.

Admission Requirements

The PhD program in Mathematics does not have formal admission requirements other than those of the Graduate School. Admission, however, is competitive. The admissions committee reviews transcripts, letters of recommendation, and the candidate's personal statement, seeking evidence of mastery in proof-based mathematics (such as analysis, topology, and modern algebra), the ability to craft mathematical proofs, and general mathematical maturity.

Degree Requirements

- Complete 36 credit hours.
- Pass three comprehensive examinations prior to advancing to the research stage of the program.
- Complete studies in a minor field (either inside or outside the department).

Mechanical Engineering, PhD

The Ph.D. degree is a research degree granted on the basis of broad knowledge of mechanical engineering and in-depth study in a specific area leading to a dissertation reflecting original work by the doctoral candidate.

Admission Requirements

Applicants seeking admission to the graduate program in the Department of Mechanical Engineering (ME) as regular students must have an awarded baccalaureate degree. Admission to the ME graduate programs

normally requires a Bachelor's degree in engineering (not necessarily in Mechanical Engineering) and a grade point average (GPA) of 3.0/4.0 or 70% on all graduate and undergraduate work, as well as Graduate Record Examination (GRE) scores of at least 300 (new scoring system) for the combined Quantitative and Verbal sections (with at least 160 on the quantitative section) and 3.5 for the Analytical section. An undergraduate degree in Mathematics, Chemistry or Physics combined with a strong interest in engineering topics may be suitable preparation when certain required undergraduate courses are taken (see Appendix A for further details). Exceptions to these requirements may be made by the Director of Graduate Studies if other persuasive evidence of the student's potential for success is available.

Degree Requirements

Course Requirements:

Students without an MS Degree

- 36 credit hours required for a PhD degree. Residency and research courses (including ME 790) do not count toward the required credit hours.
- At least 6 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list, where at least 3 credit hours are from courses with prefixes MA or STA. See Appendix F for further information.
- At least 18 credit hours at the 600-level or greater (ME 790 is excluded, and only 3 credit hours of ME 780 may be included).
- At least 18 credit hours from courses with the prefix ME

Students with an MS Degree in Mechanical Engineering

- 18 credit hours required for a PhD degree. Residency and research courses (including ME 790) do not count toward the required credit hours.
- At least 3 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list. See Appendix F for further information.
- At least 9 credit hours at the 600-level or greater (ME 790 is excluded, and only 3 credit hours of ME 780 may be included).
- At least 9 credit hours from courses with the prefix ME

Students with an MS Degree in another discipline

- Up to 18 credit hours may be waived for the PhD degree course degree requirement upon the approval of student's advisor, DGS and graduate school. The student's PhD committee determines the course requirements with the approval of the DGS
- The total number of credit hours the student must take for a PhD will be 36 minus the number of credit hours waived by the department. Residency and research courses (including ME 790) do not count toward the required credit hours.
- Math requirement:
 - If at least 3 credit hours were waived for a student from an acceptable math course, the student must take at least an additional 3 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list.

- If no math courses were waived for a student, the student must take at least 6 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list, where at least 3 credit hours are from courses with prefixes MA or STA.
- At least 50% of the required credit hours must be at the 600-level or greater (ME 790 is excluded, and only 3 credit hours of ME 780 may be included).
- Independent work, taken as part of ME 780, cannot be included in the required coursework when the course material is related to the student's dissertation topic.
- At least 50% of the required credit hours must be from courses with the prefix ME.

Advisor & Advisory Committee

Each student's program is guided by a major professor and an advisory committee throughout the student's graduate career. Their functions are to provide continuity of direction and counsel and to instill intellectual stimulation throughout the entire doctoral program. **PhD students are required to select an advisor within the first semester (or earlier).** Students should also with the help of their advisor select their advisory committee during the second semester and no later than the completion of 18 credit hours of graduate work. The Advisory Committee provides advice to the student and sets specific program requirements (within applicable Department, Graduate School, and University regulations) which the student must satisfy. The Graduate School determines the regulations concerning the makeup of the advisory committee. The rules for the advisory committee are found in the Graduate School Bulletin.

Students are required to submit their advisory committee for DGS and Graduate School approval. This is required before any exams can be scheduled.

Residency & Post Residency Requirements

The Graduate School requires students fulfill residency requirement within the doctoral program in order to encourage students to experience contact with the academic community and the intellectual environment that characterizes a university. Students are required to complete the equivalent of two years of residency (36 credit hours) prior to the PhD Oral Qualifying examination and one year (2 semesters) of Post-qualifying residency. Please refer to the Graduate School Bulletin for Residency/Post Residency requirements. An awarded MS degree from the University of KY or another accredited school may satisfy 18 of this 36-hour pre-qualifying requirement. Such requests should be made by the Faculty advisor to the DGS and then to the Senior Associate Dean of the Graduate School.

Written Qualification Examination

PhD students are required to take and pass the PhD Written Qualification Examination which constitutes the written portion of the Qualifying Examination required by the Graduate School.

This written exam tests knowledge in specific required undergraduate topic areas, but exams will be sufficiently difficult to test mastery of these concepts.

Students have up to 2 seatings during which they must pass one written exam in mathematics and two additional exams in other topic areas. The two additional topic area exams must be selected from the seven listed in Appendix D. Seatings will occur twice a year: during the first full week in February (spring exams) and during the first full week after the Labor Day holiday (fall exams). Once a student passes an exam on a topic, they do not need to retake it. No student will be permitted to take exams in more than 2 seatings.

Failure to pass the math exam and two additional exams by the end of the student's second seating will result in the student's dismissal from the ME doctoral program. Failure to complete the Written

Qualification Exam within the specified time limit as outlined in Appendix D will result in the student's dismissal from the ME doctoral program.

Exams and exam syllabi are prepared by the corresponding qualifying exam topic area committees; exams are graded by the same topic area committees. Detailed information on the written qualifying exam procedures can be found in Appendix D.

Oral Qualifying Examination

PhD students are required to take and pass the PhD Oral Qualifying Examination. This exam inspects the soundness of the students proposed doctoral dissertation research plan. A prospectus prepared by the student and submitted to the student's Advisory Committee is required at least two (2) weeks in advance of the exam. Only those who have passed the written qualifying exam and have satisfied all ME course requirements may sit for this exam. The Graduate School provides the regulations for this exam.

Publication Requirement

PhD students are expected to have submitted at least three (3) papers to archival journals, with at least one (1) having been accepted before sitting in their final examination.

Final Examination

This exam is the dissertation defense and is mandated by the Graduate School and all Graduate School regulations regarding this exam must be met. Graduate School regulations concerning the final exam are included in the Graduate School bulletin.

Students planning on taking the PhD final examination are required to notify the Graduate School a minimum of eight (8) weeks prior to the intended date.

During that eight-week period, the Graduate School will appoint an Outside Examiner from an outside department on campus. Following the appointment of the Outside Examiner, students may set the final exam date at least two weeks prior to the examination.

Students are expected to provide delivery of the complete dissertation to the student's advisor four (4) weeks prior, and to the committee a minimum of two weeks prior. The Graduate School will send announcements to of the examination to each advisory committee member and to the PhD candidate.

The final exam is open to the public and must take place while classes are in official session. They may not be scheduled between semesters or between the end of Summer Session II and the beginning of the Fall semester. Students may not sit for the final exam until all remaining "I" grades in credit bearing courses have been assigned letter grades. PhD students must be enrolled to sit for the exam.

The Graduate Student Coordinator, working with the DGS and the Graduate School, will provide the Final Exam card prior to the beginning of the Final Examination. If the examination card has not been received, the Committee Chair or DGS must call the Associate Dean of the Graduate School to determine whether the examination may proceed.

The Final Examination may not begin until all voting members of the Advisory Committee are present. The names of the voting members will be on the Final Examination card; names of non-voting members will not be on the card. All committee members must be present for the entire examination process. If a Committee member is in contact via electronic means, such as pre-approved telephone or interactive video (ITV)

conference, and the connection is lost, the examination proves must stop until the connection is reestablished.

The Final Examination may be cancelled at any time prior to its official start for substantive reasons with no permanent consequences for the student. The student has not failed the examination in this case because the exam had never begun. Substantive reasons for an exam cancellation can include a missing advisory committee member, a sudden difficulty in the candidate's personal life that may affect examination preparation and/or performance, or a late opinion on the part of the one or more committee members that the dissertation is not ready to defend. In such cases, the committee should discuss the issues at hand and reach a decision on whether to hold the examination. The candidate also has the right to cancel the Final Examination *prior* to its start. If the examination is cancelled, it must be formally rescheduled with the Graduate School with a minimum two-week interval.

The Final Examination must be completed once it has begun. The committee vote must be recorded on the Examination card, and scores entered on the score sheets, with the signatures of all voting members. There are only two possible outcomes: Pass or Fail, and these outcomes must be consistent with the score appearing on the score sheet for each voting member. The Examination may not be suspended to permit the candidate to correct deficiencies. The only suspensions that are permitted are short breaks to allow the candidate or committee to refresh themselves. No refreshments beyond bottled water will be permitted in the exam without pre-approval by the DGS.

Submission of the Dissertation

The final copy of the dissertation is prepared and submitted to the Graduate School after the Final Examination is passed and all committee requirements have been met. *Instructions for the Preparation of Theses and Dissertations* on the Graduate School website provides the requirements for dissertation preparation and submittal.

The dissertation must be received by the Graduate School within 60 days of the Final Examination. The candidate must be re-examined if this deadline is not met. The dissertation must be accepted by the Graduate School by the last class day of the semester in which the candidate will graduate. PhD candidates must fill out and submit an ETD form for their dissertation. Please follow the guidelines and find the form on the Graduate School's website.

Microbiology, PhD

The Ph. D. program in Microbiology is offered by the Department of Microbiology, Immunology and Molecular Genetics, within the College of Medicine (COM). Graduate students in MIMG can focus their studies in the core disciplines of pathogenic microbiology and immunology, but cross-discipline areas such as cancer immunology, immune response to infection, and the role of the microbiota in infection and immunobiology are also available.

The program is designed to prepare students for research careers in academics, industry, and government, as well as teaching careers in colleges and universities. The program has at its heart a close student-mentor relationship that allows for the maximum flexibility in the development of independent and creative scientists and teachers.

Admission Requirements

Students are admitted through the College of Medicine Integrated Biomedical Sciences (IBS) program. The IBS program is an umbrella program that handles admissions and organizes first year course work for students in the COM basic sciences departments, which includes MIMG. Students wishing to join MIMG should apply directly to the IBS program. The IBS program requires that prospective students have a Bachelor's degree from a four-year accredited institution, with appropriate course work in biology, chemistry, physics and math.

Students in the IBS program complete coursework that provides a foundation for doctoral studies in any of the COM basic science departments. In addition to coursework, IBS students do research rotations with any faculty in participating departments. Students completing the IBS year with a minimum GPA of 3.0, and a minimum grade of B in all IBS coursework are welcome to join MIMG.

Degree Requirements

MIMG requires all Ph.D. students to take two of three core courses:

- MI 615 MOLECULAR BIOLOGY
- MI 685 IMMUNOBIOLOGY, INFECTION, AND INFLAMMATION
- MI 720 MICROBIAL STRUCTURE AND FUNCTION

MIMG students are also required to take:

- MI 772 SEMINAR IN MICROBIOLOGY
- MI 710 SPECIAL TOPICS IN MICROBIOLOGY (Grant Writing)
- Students must also take one elective, which may include one of the core courses, or any other of a wide variety of other options. Some of the most commonly chosen electives are:
 - MI 725 MECHANISMS OF MICROBIAL PATHOGENESIS
 - MI 707 CONTEMPORARY TOPICS IN IMMUNOLOGY
 - BIO 520 BIOINFORMATICS
 - PGY 617 PHYSIOLOGICAL GENOMICS
 - BCH 611 BIOCHEMISTRY AND CELL BIOLOGY OF NUCLEIC ACIDS
 - BCH 612 STRUCTURE AND FUNCTION OF PROTEINS AND ENZYMES

Students are required to take 36 credit hours before taking the Qualifying Exam.

Students are also required to take at least two semesters of MI 767 (Dissertation Residency Credit) for research credit following the qualifying exam. MI 767 must be taken each Fall and Spring semester until the dissertation is defended.

<https://microbiology.med.uky.edu/>

Mining Engineering, PhD

The programs leading to the degrees of Master of Science in Mining Engineering, Master of Mining Engineering and Doctor of Philosophy are offered through the Department of Mining Engineering. The objectives of these programs are to provide an advanced level of applied science for use in the mining industry and to offer specified topics for research specialization.

The Master of Science in Mining Engineering is a research-oriented degree appropriate for a career in problem solving, research, or technology development.

For the Master of Science in Mining Engineering, 24 credit hours of course work plus an acceptable thesis (Plan A) or 30 credits of course work and a report on one or more research topics (Plan B) are required to fulfill program requirements. Plan B Master of Science degrees will be reserved normally for students who have already demonstrated their ability to conduct and report on independent research.

The Doctor of Philosophy is the terminal degree in the subject and is normally required for a career in teaching and research

Admission Requirements

Enrollment in the Master of Science degree program is open to qualified applicants with an undergraduate degree in mining engineering or other engineering and science fields. A minimum cumulative grade point average of 2.8/4.0 from an accredited undergraduate program is required. Persons with undergraduate degrees in fields other than mining engineering are required to satisfy deficiencies in undergraduate mining engineering courses.

Applicants for admission must have a combined score on the verbal and quantitative portions of the Graduate Record Examination (GRE) in excess of 300. Scores on the analytical portion are also considered. Foreign applicants whose native language is other than English must take the Test of English as a Foreign Language (TOEFL) and achieve a score of at least 80 (internet based test) or 230 (computer based test) or (550 paper based test) is required before they can be admitted. Alternatively candidates should take the International English Language Testing System (IELTS) test and achieve a score of at least 6.5.

In addition to satisfying general Graduate School and College of Engineering admissions requirements, applicants for admission to the Master of Science and Ph.D. degree programs in Mining Engineering must have been awarded the Bachelor of Science degree prior to admission to the graduate degree status. Normally, it is expected that applicants will have graduated from an engineering program accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). For applicants from non-U.S. universities, from related but non-engineering disciplines, and from institutions that do not have accredited engineering programs, an assessment will be made of the comparability of educational background to that prescribed and appropriate remedial course work established as a provision for admission.

Degree Requirements

The Ph.D. degree has no formal course requirements. Students need to complete a minimum of 36 credits of graduate level courses, of which two semesters must be full-time, while preparing for the written and oral qualifying examinations. Students who hold a Master of Science degree are typically given credit for up to 18 credit hours of the 36 hour requirement. Current research areas include the following: rock mechanics and ground control, operations research, mine ventilation, underground construction, surface mining and reclamation, explosive and blasting, mine environmental engineering, mine power systems, mineral and coal processing, extractive metallurgy, data management and mineral economics. In addition to the graduate courses in mining engineering, graduate courses in civil engineering and other disciplines may be used to satisfy degree requirements providing they are appropriate to the student's program of study. Additional information about the graduate program in mining engineering can be obtained by writing the Director of Graduate Studies, Department of Mining Engineering.

Music, PhD

The School of Music offers the Doctor of Philosophy (Ph.D.) with specialty areas in musicology, music education, or theory.

The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The School of Music offers courses and research opportunities leading to the Ph.D. Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Applicants must submit a master's thesis or a research paper of sufficient scope and quality to demonstrate competence in research and clarity of expression. For students in the Ph.D. program, entrance exams are a required component of the application process to assess competency in music history and music theory.

Degree Requirements

The basic core requirements beyond the master's degree are as follows:

- Research Methods: MUS 618 (if not taken at the master's level) (3)
- Music History and Literature beyond the master's (9)
- Advanced Music Theory beyond the master's* (6)
- Three seminars (minimum) beyond the master's (9)

Total (27)

(24 hours if competency in Research Methods is accepted by the Musicology faculty.)

*MUS 578 cannot be used to fulfill this requirement.

There is no specific requirement in a minor area, but such work may be required by a student's Advisory Committee if it is essential to the major research or field of concentration.

Satisfaction of language requirements will conform to The Graduate School policy; however, specific languages required will vary with individual options. The foreign language requirement(s), if applicable, must be met by the end of the first full year of study in the Ph.D. program. The student's Advisory Committee must be formed and appointed by the Dean of the Graduate School prior to advance registration for the student's third semester. The dissertation topic and prospectus must be approved by the Advisory Committee; the dissertation itself must be the result of original research which adds to or modifies what has previously been known on the subject. Qualifying examinations should be taken no later than one semester after the completion of course work. A student is admitted to candidacy for the Ph.D. degree only after meeting the language requirement(s) and passing the qualifying examinations.

The Ph.D. in music may be pursued in one of three areas: music education, music theory, or musicology. The program outline for each area beyond the core requirements is given below; the student's Advisory Committee advises on and plans the actual program of study.

Music Education

- Music in Higher Education (MUS 762)
- Psychology of Music (MUS 770)
- At least one graduate level course in statistics

Knowledge of acoustics (PHY 140 or equivalent); Knowledge of specialized research in music education (MUS 600 or equivalent). These requirements must be met by the end of the first year of doctoral study. A foreign language is not required but student must show competency in computer use and statistical understanding for research purposes.

Additional courses in music education or adjunct subjects as recommended by the Advisory Committee.

Music Theory

- Pedagogy of Theory (MUS 674)
- Advanced Analytical Techniques (MUS 676)
- History of Music Theory (MUS 678)

Additional courses in music theory or adjunct subjects as recommended by the Advisory Committee.

A reading knowledge of French, German, or a language appropriate to the research interest.

Musicology

- Medieval and Renaissance Notation (MUS 700)
- Proseminar in Musicological Methods (MUS 703)

Additional courses in musicology or adjunct subjects as recommended by the Advisory Committee.

A reading knowledge of at least two foreign languages, normally German and either French or Italian.

Combined M.A./Ph.D. Program in Musicology & Ethnomusicology

The First Two Years

The first two years of study provide training in the practice and methodology of musicology and ethnomusicology. A minimum of 30 hours of graduate credit is required during the first two years of graduate study.

Second-Year Review; Examinations and Research Paper

During the second year of graduate study the student will be expected to:

- Take an examination designed to test the student's knowledge of European and American music and of music theory. This will include a four-hour written examination in general music history, and a four-hour written examination in music theory.
- Write a paper on a topic of the student's choice, and with approval of the student's advisor. This third-term paper should explain and review a selected topic in musicology or ethnomusicology, survey and evaluate the available literature on the topic, and identify lines of inquiry which remain to be pursued. The recommended length for this paper is 25-30 pages of prose, in addition to the

bibliography, with appendices and musical examples as needed. Three copies of the paper are to be submitted to the Division of Musicology, which may require revisions before final acceptance.

The departmental evaluation of all students in the second year is based on course work completed to date, the paper, the results of the preliminary exam, and the student's prospects for continued success in the field. The department's judgment is a collective one. If the evaluation is favorable, the student may continue in the Ph.D. program. A student who fails the common exams may receive a terminal M.A. through the following steps: a) completing 36 hours of course work, b) submitting an acceptable 2nd-year paper, in lieu of thesis, and c) establishing a Masters' committee and passing an oral exam.

A student who successfully completes the 2nd-year review, which includes the common exams and the 2nd-year paper, but fails the special area Qualifying Examination, is eligible to receive a terminal M.A. without further academic work, as long as performance on the oral portion of the qualifying exam is considered to have been satisfactory as an M.A. final examination. The advisor and two other members of the doctoral committee will be named as the M.A. committee to complete the necessary paperwork."

"A student who passes the qualifying exams but does not successfully complete the dissertation and/or defense will be eligible to receive the M.A. without further work of any kind, except for applying for the degree. The advisor and two other members of the doctoral committee will be named as the M.A. committee to complete the necessary paperwork, certifying the 2nd-year paper in lieu of the thesis and the doctoral qualifying examination in lieu of the M.A. final exam.

Students entering the program with M.A. degrees in Musicology from the University of Kentucky or other institutions may make a written petition to the departmental faculty to participate in the Second- Year Review during their first year of residency. Note: In order for the petition to be considered, the student must have been admitted without the requirement of any remedial work, and must have taken an appropriate research method class as part of the master's program.

The Third Year

During the third year of study, the student will take additional courses in musicology, ethnomusicology, theory, and any appropriate cognate areas within or outside the music program; a limited number of these courses may be independent study in the area of specialization.

The student will take the qualifying examinations, which will consist of a special field examination in musicology or ethnomusicology, the general sense and limits of which have been discussed in advance with the prospective dissertation advisor and the student's advisory committee. If necessary, the committee may also retest areas in which the second-year exams demonstrated deficiencies.

The Dissertation

As soon as possible after the successful completion of Qualifying Examinations, the student should submit a dissertation proposal to his/her Advisory Committee. The student will defend this proposal at a meeting of the committee, and is expected to submit any required revisions within two months. The dissertation itself will meet all the requirements of the University of Kentucky Graduate School, and will be defended following the usual Final Examination procedures.

Course Requirements

MUS 618 RESEARCH METHODS (3)

MUS 703 PROSEMINAR IN MUSICOLOGICAL METHODS (3)

MUS 700 MEDIEVAL AND RENAISSANCE NOTATION (3)

MUS 702 SEMINAR IN MUSICOLOGY (variable topics) (12-18)

MUS 710 INTRODUCTION TO ETHNOMUSICOLOGY (3)

MUS 711 SEMINAR IN ETHNOMUSICOLOGY (variable topics) (3-6)

Advanced Music Theory (not including MUS 578) (9)

Directed electives (including independent study) (9-18)

Total 54

Note: Students entering the program with a Master's degree, whose petition to enter in the second year has been approved, will be required to take 36 hours, with specific courses to be determined by the Advisory Committee based on the evaluation of coursework taken in the previous degree.

Foreign Language

All students in the combined M.A./Ph.D. program must demonstrate reading knowledge of two foreign languages. One of these is usually French or German, but they may also be other languages appropriate to the students' research interests. The Graduate School offers reading knowledge courses in French, German, and Spanish.

Advising

Students in the M.A./Ph.D. program will work initially with an individual advisor, and then with an Advisory Committee. For further details on the program see the program webpage: <https://finearts.uky.edu/music/musicology-ethnomusicology>

Neuroscience, PhD

The Department of Neuroscience offers a graduate program leading to the Doctor of Philosophy degree in Neuroscience. Graduate study in neuroscience is designed to prepare candidates for research careers in academics, industry, and government laboratories. Students will have the opportunity to join faculty research programs across a spectrum of topics including: cellular and molecular neurobiology, neurodegenerative diseases and aging, brain and spinal cord injury, neuroendocrinology, and behavioral, cognitive and integrated neuroscience. The program of study is tailored to the individual background and career goals of the student and stresses an interdepartmental approach both in the selection of courses and in the pursuit of research. Students are expected to participate in graduate seminars, journal clubs, research seminars, to interact with visiting scholars, publish and to present the results of their research at local and national meetings. Financial aid is available to students accepted into the program. Optional graduate certificates in Anatomical Sciences or Neuroscience Instruction are also available.

Admission Requirements

- Admission to the Ph.D. program in Neuroscience is through completion of the Integrated Biomedical Sciences (IBS) graduate curriculum with a GPA of 3.0 or greater. Inquiries regarding admission to the IBS program should be directed to the Director of Graduate Studies, Integrated Biomedical Sciences Curriculum, University of Kentucky College of Medicine at <http://www.mc.uky.edu/ibs/>.
- For additional information about the Ph.D. program in Neuroscience, contact the Director of Graduate Studies, Department of Neuroscience. Information may also be obtained from the department website at <https://neuroscience.med.uky.edu/>.

Degree Requirements

Requirements to be added.

Nursing, PhD

The goal of the PhD Program, which is ranked among the top eight programs in the U.S. by the National Research Council, is to prepare students to conduct clinical research that generates new knowledge applicable to nursing practice. A foundation of research and scholarship gained at the baccalaureate or master's level is further enhanced at the doctoral level. Our students are prepared to assume roles in a variety of settings, from private industry to community colleges to top research-intensive nursing schools affiliated with major academic health centers.

Interdisciplinary research opportunities are emphasized. Invaluable mentoring by faculty members and collegial interactions among doctoral students support the development of nurse researchers.

Doctoral students have the opportunity to participate in faculty members' research programs, such as psychosocial and biobehavioral interventions for prevention and treatment of cardiovascular and pulmonary diseases, management of critically ill patients, promoting self-management of chronic illnesses, domestic and workplace violence, tobacco policy and smoking cessation, occupational health and safety, health disparities, health risks in pregnant women, pediatric asthma and more.

The faculty is well-qualified in both research and clinical practice. Faculty and students alike are very successful in obtaining extramural funding for their scholarly activities. With research as a central component of the College's mission, College faculty and students boast more than \$20 million in its research portfolio as they produce groundbreaking knowledge in cardiovascular disease, tobacco control policy, diabetes, cancer, agricultural health, health disparities, maternal-child health, chronic pain, acute injuries and mental health. [Click here for more information on the College's research initiatives.](#)

Graduates of the program will be able to:

- Establish a pattern of productive scholarship and participation in team science that results in the dissemination of scholarly work to lay and professional audiences
- Contribute to the development of science and the discipline of nursing through the ethical conduct of culturally competent, original clinical and translational research
- Demonstrate an understanding of the evolving roles and professional responsibilities of a nurse scholar through participation in professional and interprofessional teams and organizations and the provision of professional and research leadership and mentorship

- Use different science perspectives and an in-depth knowledge of a substantive area to develop and apply a conceptual knowledge base that enhances the link among theoretical advances, research, and practice to improve health outcomes

The PhD program was initiated in 1987 and was the first in the state of Kentucky.

There are two entry points to the PhD Program:

Post-BSN Option: for those who wish to build on their BSN degree to become active nurse researchers and contribute to the development of science that improves health outcomes. This option also includes those with an earned master's degree who desire to develop research skills that contribute to science, scholarship and improved health outcomes.

Post-DNP Option: Curriculum plans are customized for each individual based on a faculty review of completed DNP coursework as comparable to courses in the PhD Program.

All entry options also have part-time plans. Deadline for fall admission is Feb. 15. Admission decisions are made on a competitive basis. Applications received after Feb. 15 will be considered on a space-available basis.

Admission Requirements

Applicants to the PhD Program should meet the following minimum requirements:

- Undergraduate grade point average of 3.3 on a 4.0 grading scale
- A bachelor's degree in nursing from an CNEA or CCNE accredited program
- Current, active, and unrestricted RN license in Kentucky or in each US state where research will take place.
- Graduate Records Exam (GRE) is optional but highly recommended; GRE scores are used for competitive funding opportunities, particularly those from the UK Graduate School
- Three references attesting to the potential of the student for a scholarly career; at least one should be from a doctorally prepared nurse
- Example of scholarly written work that demonstrates excellent writing skills and the ability to communicate clearly and logically; examples could include a publication or class paper
- Goal statement that addresses short- and long-term academic, research and career goals; a self-evaluation of motivation, initiative and the potential for independent learning with specific examples of each; and examples of leadership experiences where initiative and self-motivation were important to success
- Two faculty interviews arranged as part of the admission process
- Admission to the University of Kentucky Graduate School

Application Deadlines

- Fall semester admission: Feb. 15
- Spring semester admission: Oct. 15

Applications for the Doctor of Philosophy in Nursing received after the above deadlines will be considered only on a space available basis. International applicants must adhere to published graduate school deadlines.

Degree Requirements

PhD candidates must complete the following:

- Minimum of 48 credit hours of pre-qualifying course work
- Enrollment in at least five credit hours of course work per semester
- Prequalifying residency requirement: Students must complete the minimum 48 credit hours of course work within five years of entry into the doctoral program.
- Two consecutive full-time terms for the NUR 767 dissertation research residency
- Written and oral examinations to qualify as a candidate for the PhD degree
- Dissertation and final examination

Prequalifying course work	Course\ Title	Credits
Core statistics	STA 570 BASIC STATISTICAL ANALYSIS	3
	STA 674 REGRESSION ANALYSIS AND DESIGN OF EXPERIMENTS	3
Core nursing courses	NUR 770 PHILOSOPHICAL FOUNDATIONS OF NURSING SCIENCE	2
	NUR 763 FOUNDATIONS OF SCIENCE AND KNOWLEDGE DEVELOPMENT IN NURSING	2
	NUR 764 SYSTEMATIC REVIEWS OF THE LITERATURE	3
	NUR 779 DOCTORAL SEMINAR: (SUBTITLE REQUIRED) -- Becoming a Scientist	1
	NUR 765 RESEARCH DESIGN AND METHODS: QUALITATIVE, QUANTITATIVE AND MIXED METHODS RESEARCH (Pre req.: statistics 1 and NUR 790)	4

	NUR 778 PROSEMINAR IN CONTEMPORARY HEALTH AND NURSING POLICY ISSUES	3
	NUR 766 RESPONSIBLE CONDUCT OF RESEARCH	1
	NUR 793 MEASUREMENT OF NURSING PHENOMENA (Pre req.: NUR 763, 770 & 765)	3
	NUR 773 RESEARCH PROPOSAL DEVELOPMENT (Pre req.: NUR763, NUR764, NUR765)	3
	NUR 779 DOCTORAL SEMINAR: (SUBTITLE REQUIRED) --Roles for the Nurse Scientist	1
	NUR 772 DISSEMINATION OF SCHOLARSHIP AND SCIENTIFIC FINDINGS	3
	NUR 794 ANALYSIS, INTERPRETATION, AND PRESENTATION OF QUANTITATIVE DATA (Pre req.: STA 674)	3
	NUR 779 DOCTORAL SEMINAR: (SUBTITLE REQUIRED) --Career Planning	1
Cognates	Students are required to complete 9 credit hours of cognate courses in a related discipline.	9
Post Qualifying course work	NUR 767 DISSERTATION RESIDENCY CREDIT A minimum of two consecutive full-time terms for the dissertation research residency.	4

PhD Program information as well as full and part time sample plans of study can be found at UK PhD Program in Nursing

Nutritional Science, PhD

The impact of nutrition on health and disease has produced major clinical and public policy challenges that are shaping research and career opportunities for highly trained nutritional scientists in academia, industry and government. Disease prevention efforts, increased health consciousness and an aging population are further fueling the demand for nutritional scientists. The interdisciplinary Division of Nutritional Sciences enables students in its Ph.D. program to explore the interrelationship between environmental factors and nutrients and their effect on biochemistry, physiology and disease development. More than 50 faculty members provide teaching and individualized research guidance across over 20 departments and divisions in the University's Colleges of Medicine, Health Sciences and Agriculture, as well as the Colleges of Pharmacy, Nursing, and Education. A primary area of research and training targets nutrition and chronic diseases, with a focus on obesity and associated disorders of cardiovascular disease, diabetes and cancer.

Other specialty areas include nutrition and oxidative stress, nutrition and aging, clinical nutrition, animal nutrition and food science.

Admission Requirements

There are two ways to be admitted into the PhD program: **direct admission** or through the IBS Program. If accepted into the Integrated Biomedical Sciences (IBS) Program, you will have the opportunity to rotate through 4 research labs during your first year of study; these could be with Nutritional Sciences faculty or with other faculty in the College of Medicine.

Direct Admission Requirements

Applicants must meet the following requirements for admission to the University of Kentucky Graduate School and the Nutritional Sciences Ph.D. program:

1. A baccalaureate degree from a fully accredited institution of higher learning.
2. An M.S. degree with a Grade Point Average (GPA) of 3.2 or above on a 4.0 scale, or a B.S. degree with a GPA of 3.0 or above on a 4.0 scale.
3. For international applicants, a minimum score of 550 out 667 maximum possible is required on the paper-based Test of English as a Foreign Language (TOEFL), a minimum 213 score on the computer-based TOEFL (maximum 300), or 79 on the internet-based TOEFL. The minimum International English Language Testing Service (IELTS) score is 6.5. All applicants must demonstrate proficiency in verbal and written English.
4. Course Prerequisites: an undergraduate physiology course (PGY 206 at UK), 1 year of general chemistry (CHE 105 and 107 at UK), and 1 semester of organic chemistry (CHE 236 at UK).

Degree Requirements

Program Website:

<https://pharmns.med.uky.edu/pharmns-phd-program>

Core Courses for Ph.D. Total credits required for degree = 36

Academic Course Prerequisites to Program:

Biology (2 semesters)

General Chemistry (2 semesters)

Organic Chemistry (1 semester)

Undergraduate Biochemistry and Physiology

CORE CURRICULUM FOR PHD PROGRAM IN NUTRITIONAL SCIENCES

- NS 601 INTEGRATED NUTRITIONAL SCIENCES I (3)
- NS 602 INTEGRATED NUTRITIONAL SCIENCES II (3)
- CNU 603/NS 603 INTEGRATED NUTRITIONAL SCIENCES III (2)
- CNU 609/NS 609 ETHICS IN CLINICAL SCIENCES RESEARCH (1) or TOX 600 ETHICS IN SCIENTIFIC RESEARCH (1)
- NS 704 CURRENT TOPICS IN NUTRITIONAL SCIENCES (1)
- NS 771 GRADUATE SEMINAR IN NUTRITIONAL SCIENCES** (1+)**
- IBS 611 PRACTICAL STATISTICS (2) or STA 570 BASIC STATISTICAL ANALYSIS (3)
- IBS 601/BCH 607 BIOMOLECULES AND METABOLISM (3)
- IBS 602 MOLECULAR BIOLOGY AND GENETICS (3)
- IBS 603 CELL BIOLOGY AND SIGNALING (3)
- IBS 606 PHYSIOLOGICAL COMMUNICATION (3) or PGY 412G PRINCIPLES OF HUMAN PHYSIOLOGY (4) or PGY 502 SYSTEMS, CELLULAR AND MOLECULAR PHYSIOLOGY (5)
- Additional Electives (7-12)
- **Total Credits 36**

**All Ph.D. students must register for 0 credit (except for the one semester registered for 1 credit) and attend all GCNS seminars during their residency at the University of Kentucky. Minimum of 1 credit is required before qualifying examination. In addition, all GCNS doctoral candidates will present a seminar once/year post-qualifying exam. Electives: The student must successfully complete a minimum of 7 credit hours in electives. Elective courses are recommended by the Advisor and approved by the Advisory Committee.

ELECTIVE COURSES

Students must successfully complete a minimum of 7-12 credit hours in electives to meet the minimum requirement of 36 total credits. Elective courses are recommended by the Advisor and approved by the Advisory Committee. A full list of Elective Courses is available in the Handbook. Note, IBS 610 & IBS 608 taken in year one by students admitted through the IBS program fulfill elective requirements.

Pharmaceutical Sciences, PhD

The Graduate Program in Pharmaceutical Sciences is a multidisciplinary program designed to prepare motivated individuals for academic, industrial, or government careers in pharmaceutical and biomedical research. It is a graduate training program that encompasses research in areas of pharmaceutical sciences that range from identifying fundamental mechanisms of human disease, to the design, development and formulation of new medicines, to understanding the impact of drug policies on health care systems. Within this broad scientific framework, students develop individually tailored programs of study to meet their particular research interests and career objectives.

Intense, laboratory-based and data and analysis driven research, using state-of-the-art techniques and instruments, forms the basis of a student's PhD dissertation. Each student develops the skills and judgment to make a unique, scholarly contribution to our understanding of drugs and how these compounds impact human health and disease. Students receive the training that will enable them to become independent scientists who can conduct front-line research in pharmaceutical sciences in industrial, academic or governmental settings.

The overall goal of the graduate program is to provide the graduate student with a comprehensive, structured, yet flexible educational experience comprised of both coursework and independent, highly creative, research. This goal is supported by additional components, such as research rotations for first-year students and a program-wide seminar series. The intent is to provide both depth and breadth of expertise in the Pharmaceutical Sciences along with developing the creative and critical approach to research that characterizes a PhD-level scientist.

Training Options

Doctoral degrees in Pharmaceutical Sciences at the College of Pharmacy are obtained through one of five Tracks.

Medicinal, Bioorganic and Computational Chemistry Track

The Division of Medicinal, Bioorganic and Computational Chemistry (MBCC) is focused on small molecules as well as new protein and nucleic acid based therapies, and natural product drug discovery platforms and seeks to expand its expertise with interests in synthetic/biosynthetic approaches for drug discovery, development of novel computational tools for drug design, and evolution of biologics for specific therapies or drug delivery.

Pharmaceutical Chemistry and Engineering Track

The Division of Pharmaceutical Chemistry and Engineering (PCE) focuses on drug formulation, development and delivery. Areas of emphasis include the application of physical, physical organic, and analytical chemistry to solve pharmaceutical problems; the design, development, and optimization of dosage forms for small and large molecules; and fundamental research into materials science and nanotechnology to advance drug delivery systems design. Collaborations with faculty in the UK College of Engineering provide additional opportunities for a combined pharmaceutical and engineering research program. In addition, faculty participate in preclinical and/or clinical projects through collaborative relationships within the College of Pharmacy and with investigators across the UK Medical Center Complex.

Pharmacology and Experimental Therapeutics Track

The Division of Pharmacology and Experimental Therapeutics (PET) draws upon campus-wide strengths in neurobiology, cardiovascular disease, oncology and infectious diseases. Strong collaborations exist with the Sanders-Brown Center on Aging, addiction/abuse consortia, and the Markey Cancer Center, which recently received NCI Cancer Center designation. Division faculty are skilled in pharmacokinetic and pharmacodynamics, systems biology, neurochemistry and neurophysiology. Translational research programs bridging preclinical and/or clinical projects through collaborative relationships within the College of Pharmacy and with investigators across the UK Medical Center Complex also exist.

Clinical and Experimental Therapeutics Track

The focus of the Clinical and Experimental Therapeutics (CET) Track is translational research, and involves training in how to conduct studies that occur at the interface of basic and clinical research. Since all students admitted to the program will already have a clinical/health profession degree, the emphasis of the program

will be training in the basic sciences. This breadth and balance of skills will improve the graduate's ability to successfully compete for extramural funding and job opportunities. There are required clinical components to assure competency in the foundations, principle and processes of clinical research. The keystone of the training is the conduct of an integrated, combined laboratory-based and clinical dissertation.

Pharmaceutical Outcomes and Policy Track

The goal of the Pharmaceutical Outcomes and Policy (POP) Track is to train scientists to conduct research on the safe, efficient, and effective use of pharmaceuticals to improve the health of individuals and populations. The emphasis of the program will be on building a core set of analytical skills and tools to evaluate the impact of clinical interventions and clinical outcomes. Students complete core classes in five areas: pharmacoepidemiology, pharmacoeconomics, statistics, biomedical informatics, and pharmaceutical policy. This breadth and balance of skills will improve the graduate's ability to successfully compete for extramural funding and contribute to the scholarly literature on pharmaceutical outcomes.

<https://pharmacy.uky.edu/admission-aid/phd-program>

Admission Requirements

Admission to the graduate program is competitive and is based upon academic background, professional recommendations, experience and interviews. To be considered for the CET Track, completion of a clinical degree (MD, PharmD, DDS, DVM, etc.) is required.

Degree Requirements

Students must complete a minimum of 36 credit hours in order to sit for the qualifying exam. After successfully completing the qualifying exam, students are required to complete a minimum of two semesters of 767 before they can graduate. Students must remain continuously enrolled in 767 every fall and spring semester until they have completed and defended the dissertation.

Doctoral Program Core Coursework

Each Track has a distinct set of courses. These courses may be offered in the Graduate Program of Pharmaceutical Sciences, or available outside of the Program. The mentor and the Dissertation Advisory Committee are empowered to select those courses that fit best into the educational and career goals of the student and the scientific goals of the dissertation. The Track Coordinator (for first-year students) or mentor and the Dissertation Advisory Committee are empowered to petition the DGS, in writing, to waive courses of the Graduate Program Core if the student has demonstrated sufficient academic mastery of material in courses taken in other programs. The DGS will monitor the coursework of students and keep the Advisory Committee members apprised as to the student's grades and completion of courses. Coursework and grades are reviewed by the Advisory Committee at each yearly meeting.

The student's Dissertation Advisory Committee is responsible for coursework recommendations that are in addition to the common coursework of the program and courses recommended by the Track faculty. Full descriptions of available graduate courses are described in the course section of this bulletin.

Pharmacology, PhD

Graduate study in Pharmacology is designed to prepare candidates for research careers in academics, industry or government laboratories and agencies. The Ph.D. program in Pharmacology trains students in the fundamental principles of basic molecular and biochemical science, while also providing training in the principles of drug-receptor interactions, of experimental therapeutics and of drug discovery. Modern pharmacology also emphasizes new directions in gene therapy and pharmacogenetics. Students learn the conceptual and technical basis of research while performing mentored and, subsequently, independent research projects in laboratories equipped with state of the art technology and instrumentation.

Students will have the opportunity to join nationally recognized faculty research programs in investigating topics such as: Cardiovascular Disease and Obesity; Molecular Biology of Carcinogenesis and Metastasis; and Neurobiology of Aging and Neurodegenerative Disease, with emphases on memory, hormones, stress, and Type II Diabetes.

Admission Requirements

Admission to the graduate program is competitive and is based upon academic background, professional recommendations, performance on the Graduate Record Examination (GRE), experience, and when possible, personal interviews. It is recommended that students have completed undergraduate courses in organic chemistry, calculus, physics, and biological sciences. The program of study is tailored to the individual background and career goals of the student and can often include interdepartmental study and research. Students are expected to participate in journal clubs and research seminars; to interact with visiting scholars; and to present the results of their research at local and national meetings. Financial aid is available for qualified students.

Admission to the Ph.D. program in Pharmacology is through the Integrated Biomedical Sciences (IBS) program. Information about the admissions process is available at <https://www.uky.edu/academics/doctoral/integrated-biomedical-sciences-graduate>

For information about the Ph.D. program in Pharmacology, please contact the Director of Graduate Studies, Department of Molecular and Biomedical Pharmacology, University of Kentucky College of Medicine, Lexington, KY 40536-0298. Information may also be obtained from <https://www.uky.edu/academics/doctoral/collegeofmedicine/pharmacology-graduate>

Degree Requirements

FIRST YEAR: Integrated Biomedical Sciences Courses

- IBS 601 BIOMOLECULES AND METABOLISM (3 credits)
- IBS 602 MOLECULAR BIOLOGY AND GENETICS (3 credits)
- IBS 603 CELL BIOLOGY AND SIGNALING (3 credits)
- IBS 606 PHYSIOLOGICAL COMMUNICATION (3 credits)

- IBS 608 SPECIAL TOPICS IN INTEGRATED BIOMEDICAL SCIENCES (2 credits)
- IBS 610 CRITICAL SCIENTIFIC READINGS (1 credit)
- IBS 611 PRACTICAL STATISTICS (1 credit)
- TOX 600 ETHICS IN SCIENTIFIC RESEARCH (1 credit)

Required Courses in the Pharmacology Curriculum:

- PHA 621 PRINCIPLES OF DRUG ACTION (3 credits)
- PHA 622 MOLECULAR DRUG TARGETS & THERAPEUTICS (4 credits)

Advanced Pharmacology Electives:

- PHA 616 BIOLOGY AND THERAPY OF CANCER (3 credits)
- PHA 617 PHYSIOLOGICAL GENOMICS (2 credits)

Minimum 36 credits must be earned prior to the Qualifying Examination.

Philosophy, PhD

The Department of Philosophy at the University of Kentucky offers programs of study leading to the Doctor of Philosophy degree. Applicants may, once admitted to the Ph.D. program, apply to leave the program with an M.A. only.

The purpose of the Ph.D. program is to develop the student's ability to complete a Doctoral degree successfully. Doing so will enable the student to do independent research in philosophy, to secure an academic job at the University or College level, or to pursue a career in which rigorous and critical thinking are desired.

The purpose of the M.A. degree is to provide the student with a fundamental understanding of the major historical and contemporary points of view in all of the basic areas of philosophical inquiry and to develop the student's capacity to formulate and analyze philosophical problems. Such a degree is suitable either as preparation for further study in Philosophy or as a complement to advanced training in a variety of other fields.

Admission Requirements

It is expected that candidates admitted to the graduate program in philosophy will: (1) provide proof of completion of a B.A., B.S., or M.A.; (2) have given evidence of superior skills on the GRE; (3) have achieved an overall grade-point average of at least 3.2 (4.0 scale) in all undergraduate course work; and (4) have achieved an overall grade-point average of at least 3.5 in all graduate course work.

Degree Requirements

Satisfactory progress through the Ph.D. program is typically made by fulfilling seven general requirements, each merely summarized here. (The requirements are more technical than this: please refer only to the official program regulations for the authoritative statement of the requirements).

1. At least 52 hours of course work (including 4 hours of PHI 767), with specific distributional requirements.
2. Satisfactory completion of PHI 741 and PHI 742 (1st year Prosem).
3. Satisfactory completion of PHI 740 (Teaching Practicum).
4. Satisfactory completion of PHI 520 : Logic, or its equivalent.
5. Satisfactory demonstration of reading competence in one foreign language relevant to the student's philosophical program of study (e.g., Greek, Latin, French, or German).
6. Satisfactory completion of three steps preparatory to writing the dissertation: the Area Proposal, the Qualifying Exam, the Dissertation Proposal (each of these steps has written and oral components).
7. Satisfactory completion and oral defense of a Dissertation.

The coursework requirements differ depending on previous graduate coursework, specifically whether one enters with no M.A. in Philosophy, a one-year M.A. in Philosophy, a two-year M.A. in Philosophy. See these checklists for summaries:

- Checklist of PhD requirements (no previous M.A.)
- Checklist of PhD requirements (previous one-year M.A.)
- Checklist of PhD requirements (previous two-year M.A.)

Physics, PhD

The Department of Physics and Astronomy offers courses and research opportunities leading to the M.S. and Ph.D. degrees in the areas of astronomy and astrophysics, atomic and molecular physics, low and intermediate energy nuclear physics, condensed matter physics, and particle physics. More detailed descriptions of each of these options is available at <https://pa.as.uky.edu/pa-faculty-research>.

Opportunities exist for experimental, theoretical, and computational, and observational research. Excellent laboratory facilities and library materials are available. Major facilities located within the Department are the six million volt Van de Graaff accelerator and the Center for Advanced Materials. Computational resources include the Lipscomb HPC cluster and access to XSEDE, NERSC, TACC, JLab and BNL. The Department is active in research at many national laboratories, including Jefferson Lab (Virginia), Oak Ridge National Lab (Tennessee), Los Alamos National Lab (New Mexico), Argonne National Lab. (Illinois), Brookhaven National Lab (New York), Triangle Universities Nuclear Lab (North Carolina), National High Magnetic Field Facility (Florida), and Lawrence Berkeley Lab (California) as well as international laboratories including Paul Scherrer Institute (Switzerland), TRIUMF (Vancouver), and MAX-lab (Sweden). In astronomy

our students conduct research at facilities including the National Radio Astronomy Observatory (West Virginia), Arecibo Observatory (Puerto Rico), Kitt Peak National Observatory (Arizona), McDonald Observatory (Texas), and the Hubble Space Telescope, and participate in collaborations including Sloan Digital Sky Survey-IV (SDSS-IV) and the Large Synoptic Survey Telescope (LSST). Such activities expose our graduate students to state-of-the-art instrumentation and world-class researchers.

Admission Requirements

In addition to the admissions requirements of the Graduate School, the Department of Physics & Astronomy requires graduate applicants to have a sound foundation in undergraduate physics. This foundation will normally include advanced courses in classical mechanics, electromagnetism and quantum mechanics. Applicants are encouraged to take the GRE physics subject exam. Applicants wishing to apply for financial aid in the form of a teaching assistantship, research assistantship or fellowship must supply letters of recommendation from three individuals familiar with their academic capabilities. Such applicants must also submit a written statement of their interests and background in physics.

Admissions requirements are the same for the M.S. and the Ph.D. programs except that applicants for the Ph.D. must possess an interest in carrying out original research at the advanced level.

Degree Requirements

Requirements to be Added

The Ph.D. degree is a research degree granted on the basis of broad knowledge of physics and in-depth research in a specific area leading to a dissertation (and generally publications in appropriate refereed journals). Students may perform this research at the University of Kentucky or appropriate collaborating institutions. Before taking the Ph.D. qualifying exam, the student must pass the Physics GRE at the 50th percentile or higher and satisfactorily pass core courses in graduate classical mechanics, electromagnetism, quantum mechanics, and statistical mechanics, as well as electives in topical areas of modern physics.

Physiology, PhD

Graduate study in physiology is designed to prepare candidates for careers as independent scientists in academics, industry, and government positions. Admission to the graduate program is competitive and is based upon academic background, professional recommendations, performance on the Graduate Record Examination (GRE), experience, and when possible, personal interviews. Applicants should complete an undergraduate degree in a relevant area such as biological sciences, chemical sciences, physical sciences, mathematics, psychology, or engineering. It is recommended that applicants complete courses in organic chemistry, physical chemistry, calculus, physics, and the biological sciences, as well as have some research experience.

Students will have the opportunity to join faculty research programs that cover topics including neural, endocrine, cardiovascular, renal, respiratory, sensory, and muscle physiology. Research activities employ systems, cellular, and molecular approaches. The program of study is tailored to the individual background and career goals of the student and stresses an interdepartmental approach both in the selection of courses and in the pursuit of research. Students are expected to participate in graduate seminars, journal clubs,

research seminars; to interact with visiting scholars; and to present the results of their research at local and national meetings.

Teaching opportunities leading to a graduate certificate in teaching is also available. Financial aid is available to the students accepted to the program.

Admission Requirements

Most students enter the Physiology PhD program after completing the one year Integrated Biomedical Sciences program. Further information about that program (including its admission requirements) are available at <https://graduate.med.uky.edu/integrated-biomedical-sciences>.

Some students, including those pursuing an MD/PhD or DO/PhD, may be considered for direct admittance to the Physiology program. These students typically have an ongoing professional relationship with an identified faculty mentor.

Specific questions can be addressed to the Director of Graduate Studies at pgy.dgs@uky.edu

Degree Requirements

Students must earn 36 hours of graduate credit to take their Qualifying Exam. Individuals transferring from the Integrated Biomedical Sciences program must gain a B or better in both PGY 502 SYSTEMS, CELLULAR AND MOLECULAR PHYSIOLOGY (5 credits) and PGY 602 READINGS IN SYSTEMS, CELLULAR AND MOLECULAR PHYSIOLOGY (3 credits). Most students take their Qualifying Exam after ~15 months in the Physiology department.

After passing their Qualifying Exam, students must maintain continuous enrollment in PGY 767 DISSERTATION RESIDENCY CREDIT until they have written and defended their research thesis. The mean time to graduation is ~5years.

More information is available at <https://physiology.med.uky.edu/>.

Plant Pathology, PhD

Applicants seeking admission to the Ph.D. program in the Department of Plant Pathology as regular students must have an awarded baccalaureate degree. Each Ph.D. student's program is guided by a Major Professor (Dissertation Director) and an Advisory Committee throughout the student's graduate career. The purpose of the Advisory Committee is to give the student continuity of direction and counsel and provide intellectual stimulation throughout residency to completion of the doctorate.

The DGS, or a designee (usually the Major Professor), serves as advisor to beginning graduate students until the Advisory Committee is appointed. Most students enter the program having already committed to a Major Professor; however there is an option for an incoming Ph.D. student who is supported on departmental assistantship or fellowship money to do two or three short lab rotations before choosing a Major Professor. This option is not available to students who are supported on individual grant funds. The Advisory Committee should be appointed before the end of the student's second semester. It MUST be appointed no less than one year prior to the Qualifying Examination. The Major Professor and Advisory

Committee must be recommended to the Graduate School by the DGS. The DGS will approve the committee only if it meets all Graduate School requirements (below), provides a reasonable breadth and balance of expertise in the major and related disciplines, and presents no obvious conflicts of interest. Once the DGS has approved and recommended the committee, it will be officially appointed by the Graduate Dean. The Dissertation Director and the Advisory Committee specifically set requirements (within the rules and regulations of the Plant Pathology program, Graduate School, and University), which the student must meet in pursuit of the doctorate.

The Ph.D. Advisory Committee has a core of four members. This core consists of the Major Professor (Dissertation Director) as chair, two other faculty members from Plant Pathology, and at least one representative from outside the Plant Pathology Department. At least one representative must be from a minor area(s), different from the student's major research focus. All members of the core must be members of the Graduate Faculty of the University of Kentucky, and at least three (including the chair or a co-chair) must possess Full Graduate Faculty status. Additional faculty members can serve as members of the Advisory Committee. The core of the Advisory Committee must be kept at its full complement throughout the graduate career of the individual student. Thus, in the event of an unforeseen vacancy on the committee, an appropriate replacement must be made prior to any subsequent committee decisions. The DGS must recommend any replacements or changes to an Advisory Committee to the Graduate School. All decisions of the Advisory Committee are by majority vote of its Graduate Faculty members. Advisory Committee decisions are reported promptly to the DGS, who then transmits them to the Dean of the Graduate School.

In addition to advising and program planning, the Advisory Committee also administers the Qualifying Examination, supervises the preparation of the dissertation and, along with the Outside Examiner (selected by the Graduate School), administers the Final Examination. Regular committee meetings are essential both before and after the Qualifying Exam. Each student must meet with her or his Advisory Committee at least once a year to present a written and oral progress report. At a meeting prior to the submission of the thesis or dissertation to the Advisory Committee, agreement should be reached on the extent of additional research to be conducted for the completion of the thesis or dissertation. It is the responsibility of the student to schedule all necessary meetings with his or her Advisory Committee. A record of each meeting that includes the written progress report, signed by the student and the Major Professor, will be provided to the DGS by the Major Professor within two weeks of the meeting, and a copy will be placed in the student's file.

Admission Requirements

The Graduate School's requirements for admission are likewise the minimum requirements for acceptance into the Ph.D. program of the Department of Plant Pathology. However, additional materials are required for application to the Plant Pathology Ph.D. program. Each applicant must arrange for three letters of recommendation to be sent, and must also provide a curriculum vitae and a written statement identifying the applicant's reasons for desiring to undertake studies in this department, to the Plant Pathology DGS. These materials, and those submitted to the Graduate School, are considered on a case-by-case basis by the department's Academic Program Committee, which then makes a recommendation on admission. Admission to a graduate program in Plant Pathology does not guarantee financial assistance to the student. Applicants who are admitted will also be informed of any financial offer in a contract that they must sign in order to be admitted to the Graduate School.

Degree Requirements

Departmental Requirements

All graduate students pursuing a Ph.D. degree in the Plant Pathology program ideally should have, or should obtain, a background in the following areas: mathematics through differential and integral calculus; physics; chemistry, including analytical, organic, and biochemistry; and the equivalent of introductory courses in botany, plant physiology, genetics, molecular biology, statistics and microbiology. The Academic Program Committee will inform the Major Professor and the student, in writing, of any relevant course deficiencies at the time of admission to the program. Deficiencies should be corrected early in the graduate program either by formal coursework or, with the approval of the Advisory Committee, by independent study. In some cases, the Advisory Committee may decide to waive certain of these requirements, depending on the student's background, goals, and interests. Agreements regarding remedial coursework, independent study, or waivers should be recorded in the notes of the meeting in which they were discussed, and included in the student's file.

Basic Course Requirements

All students are strongly encouraged to take PPA 400G PRINCIPLES OF PLANT PATHOLOGY, even if they have had a similar course previously. This course provides a common basis for subsequent required courses in the department, and will allow international students to become conversant with domestic terminology and perspective in the discipline. Required courses for the Ph.D. are PPA 500 PHYSIOLOGY OF PLANT HEALTH AND DISEASE, PPA 600 CRITICAL METHODS IN PLANT-MICROBE INTERACTIONS, PPA 640 IDENTIFICATION OF PLANT DISEASES, PPA 641 PLANT DISEASE, POPULATION BIOLOGY, AND BIOTECHNOLOGY, and PPA 770 PLANT PATHOLOGY SEMINAR. Ph.D. students are required to complete all of the above courses, and also to take at least two of the following courses: PPA 670 PLANT BACTERIOLOGY, PPA 671 ADVANCED PLANT VIROLOGY, PPA 650 FUNGAL BIOLOGY, and PPA 673 ADVANCED PLANT DISEASE RESISTANCE. The Advisory Committee may decide to waive one or more of these course requirements if the student has already taken equivalent coursework at another institution. A record of this decision should be placed in the student's file.

Individual Course Requirements

Elective courses will be determined by the student together with the Major Professor and Advisory Committee, taking into account the student's background, research topic, and area of specialization.

Political Science, PhD

The Ph.D. program is divided into a general phase and a specialized phase. Entering students spend their first year in the general phase, which includes proseminars in methodology and in the major fields of political science. Students who have previously taken graduate work may be exempt from some of these proseminars. At the end of the first year of graduate work, the student is evaluated by a departmental committee which determines whether the general phase has been satisfactorily completed. During the specialized phase of the graduate program, the student's work is based on a program of study prepared with their Advisory Committee. The student takes advanced work in at least two substantive fields in political science, a major and a minor field. Possible major fields include: American politics, Comparative politics, and International Relations. The possible minor fields are: American, Comparative, International Relations, Institutions, Behavior, Policy, Methods (the major and minor field cannot be the same).

The student completes qualifying exams evaluated by faculty field committees that consist of written and oral examinations in each of the two substantive fields specified in the student's program prior to defending

the prospectus for the dissertation. The qualifying examination in political science consists of the prospectus defense given by the Advisory Committee. The student then writes a dissertation and defends it in a final oral examination. Candidates for the Ph.D. in political science must demonstrate proficiency in a research skill. The required research skill will consist of additional quantitative skills or proficiency in a foreign language that is directly pertinent to the student's research interests. Additional details about requirements may be secured from the Department of Political Science.

Admission Requirements

Candidates for admission to the graduate program in political science must apply using the Graduate College online application system. Required information includes (1) a copy of transcripts and GRE scores; (2) a one- to three-page Statement of Purpose explaining why the student wishes to pursue a Ph.D. degree; (3) three letters of recommendation from persons familiar with the applicant's academic performance; (4) a sample of writing on a topic relevant to political science; (5) a resume or curriculum vitae, and (6) TOEFL scores if the applicant's first language is not English. Applications will only be considered for the fall semester.

Applicants will be evaluated on the basis of the Department's judgment of the likelihood of their success in the program as compared with other applicants and considering the limited number of applicants accepted to the program. In evaluating candidates, the Department will consider the totality of their records, including grades, test scores, letters of recommendation, writing samples, and other relevant information. The department usually only accepts applicants to the Ph.D. program. Students who do not have political science undergraduate majors are welcome in this program.

Degree Requirements

Core course requirements

- PS 572 INTRODUCTION TO QUANTITATIVE POLITICAL METHODOLOGY
- PS 671 STRATEGIES OF INQUIRY IN POLITICAL SCIENCE
- PS 672 INTRODUCTION TO TECHNIQUES OF POLITICAL RESEARCH
- 3 of the following field seminars
 - PS 620 COMPARATIVE POLITICS: THEORY AND METHOD
 - PS 674 PROSEMINAR IN THEORIES OF INTERNATIONAL POLITICS
 - PS 680 PROSEMINAR IN POLITICAL INSTITUTIONS AND PROCESS
 - PS 681 AMERICAN POLITICAL BEHAVIOR
- 3 additional courses in the major field
- 2 additional courses in the minor field

Required Courses related to the dissertation

- PS 796 DIRECTED RESEARCH IN POLITICAL SCIENCE
- PS 767 DISSERTATION RESIDENCY CREDIT

Ph.D. students must demonstrate proficiency in a research skill. The required research skill will consist of additional quantitative skills (usually an additional class) or proficiency in a foreign language that is directly pertinent to the student's research interests.

Psychology - Clinical Psychology, PhD

The department offers the Ph.D. degree in psychology in two programs: clinical psychology and experimental psychology, the latter subdivided into cognitive neuroscience, and developmental, social, and health psychology. The major goal of the doctoral programs in psychology is to prepare the student for a career in research in both academic and non-academic settings and in teaching.

The area of specialization in clinical psychology provides academic courses, practica, and internships which permit students to combine their teaching and research activities with a clinical career in the mental health field. Special areas of expertise among clinical faculty include psychological assessment, child clinical psychology, health psychology, neuropsychology, personality, psychopathology and diagnosis, psychotherapy, research methodologies, and substance abuse. Clinical training is facilitated by early placement of students at a variety of sites including medical centers, a federal corrections facility, community mental health centers, state and private psychiatric hospitals, and the department's own psychological clinic. Our doctoral program is accredited by the American Psychological Association and by the Psychological Clinical Science Accreditation System.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Health Psychology Concentration
- Neuropsychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 36 hours of pre-qualifying residency required

Core requirements

The required courses for clinical students are:

- Introduction to Clinical Psychology (PSY 629)
- Psychological Assessment and Practicum (PSY 630 PSY 631 PSY 632 PSY 633)
- Systems of Psychotherapy (PSY 636)
- Psychopathology (PSY 603)
- Psychological Statistics (PSY 610 & PSY 611)
- Research Design (PSY 616)
- History and Systems (PSY 620)
- Professional Issues in Clinical Psychology (PSY 708)
- Broad Training in Social Psychology (PSY 780) or Social Proseminar
- Broad Training in Cognitive Psychology (PSY 780) or Cognitive Proseminar
- Broad Training in Physiological Psychology (PSY 780) or Physio Proseminar
- Broad Training in Developmental Psychology (PSY 780) or Developmental Proseminar
- Ethics (PSY 710)
- Multicultural Psychology (PSY 710 or, with permission, EDP 616)
- One additional advanced clinical seminar (PSY 710) emphasizing clinical science and integrative topical training (e.g. Dialectical Behavior Therapy; Child Psychopathology; PTSD, Personality)
- Practicum in Psychological Assessment & Intervention (PSY 637 and PSY 639). 2nd through 4th years - you must have a minimum of 3 semesters of advanced group supervision (3 credits per semester). Most students have at least 2 full years of PSY 637 training. The beginning supervision group and the summer groups do not contribute to this requirement. In addition, you must continue to register for one credit of PSY 637 for each semester in which you will have clinical contacts as part of the training program. PSY 639 is required in the summers for students involved in any type of clinical training.
- Practicum in Psychological Assessment & Intervention (SUMMER PSY 639) - 0 credit. You MUST be registered for this during the summer if you have any type of clinical contact (client, assessment, clinical research, or practicum).
- Master's Thesis Research/Research Pre-quals (PSY 790)
- Residency/Dissertation Credits (PSY 767)
- Internship (PSY 708)

General information on electives

- Most students will complete elective courses in addition to those listed above. Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Psychology - Experimental Psychology, PhD

The department offers the Ph.D. degree in psychology in two programs: clinical psychology and experimental psychology, the latter subdivided into cognitive neuroscience, and developmental, social, and health psychology. The major goal of the doctoral programs in psychology is to prepare the student for a career in research in both academic and non-academic settings and in teaching.

The Cognitive Neuroscience program is intended for students who wish to study the underlying neural systems of cognitive processes. It provides a strong background in both systems-level neuroscience and cognitive psychology and allows students to develop integrative research interests that cross domains. Research includes a range of topics and methodologies aimed at understanding mechanisms of behavior in laboratory animals and human subjects. Drug use and addictive behaviors are a key focus. Levels of analysis include cellular function, animal behavior, and human substance users. Methodologies include electrochemical measurements, chemogenetics, neuronal cell culture, psychopharmacology, analytical chemistry, quantitative modeling of cognitive functions and decision-making, and fMRI.

In the Developmental, Social, Health program, students typically receive primary conceptual and methodological training in Developmental Psychology, Social Psychology, OR Health Psychology (each are "tracks" within our program). This training will reflect the expertise of your advisor (and lab) in their respective subfield (e.g., Social Psychology) and will prepare you for the academic job market in this subfield. As some faculty in the Developmental, Social, and Health program are truly "hybrid" psychologists (equivalent expertise in Social and Developmental Psychology, for example), students may also gear training across subfields by pursuing relevant coursework, research collaborations, teaching experiences, etc.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the 2 advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Cognitive Neuroscience Area
- Developmental, Social, & Health Area
- Health Psychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 36 hours of pre-qualifying residency required

Core requirements

- **Cognitive Neuroscience:**
 - Statistics sequence: PSY 610 - Experimental design PSY 611 - Correlational design
 - PSY 780 - Problems in Psychology: Directed Readings in Cognitive Neuroscience (section to be determined each semester)
 - Any three proseminars selected from the following areas: * note that another course (typically a 700-level course) may be substituted for one or more of these proseminars, pending approval of the student's supervisory committee:
 - Learning
 - Cognitive processes
 - Developmental Psychology
 - Sensation & Perception
 - Physiological Psychology
 - Four electives (a minimum of one of these must be outside of the Psychology Department)
 - Additional course work as recommended by the advisory committee
 - Residency/Dissertation Credits (PSY 767)

- **Developmental, Social, & Health:**
 - Statistics sequence: PSY 610 - Experimental design PSY 611 - Correlational design
 - Any three proseminars offered by the Department of Psychology, with the general expectation that Developmental (PSY 625), Social (PSY 624), and/or Health Psychology proseminars will be completed.
 - Additional coursework or experience - typically advanced topical or methods seminars - as recommended by advisory committees, primary advisor, and/or program coordinator.
 - Residency/Dissertation Credits (PSY 767)

General information on electives

- Most students will complete elective courses in addition to those listed above. Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

- <https://psychology.as.uky.edu/psych-application-info>

Public Policy and Administration, PhD

The curriculum of the Ph.D. program provides knowledge of the principles of organizational behavior, an understanding of the public policy process and policy issues, and an ability to analyze policy and administrative problems through research and analytical methods.

Admission Requirements

Many incoming students will hold a master's degree in public administration or public policy. Other students with master's degrees in such areas as political science, economics, agricultural economics or business administration will be evaluated with respect to their background in public administration. All students are expected to have taken four University of Kentucky courses: PA 652 PUBLIC POLICY ECONOMICS, PA 631 PUBLIC FINANCIAL MANAGEMENT, PA 642 PUBLIC AND NONPROFIT ORGANIZATION THEORY AND BEHAVIOR, and PA 651 THE POLICY PROCESS, or their equivalents from a NASPAA accredited program or their equivalents. Students who have not fulfilled these class requirements will do so before taking the relevant Ph.D. core classes. All students are also expected to have a strong background in research methodology and will need to take calculus before beginning the Ph.D. classes. Applicants must be prepared to submit:

- A one-to-three-page statement explaining why you wish to pursue a Ph.D. degree.
- A resume or CV.
- Transcripts from each post-secondary institution that you have attended. They can be unofficial for admission purposes, but official transcripts must be submitted upon enrollment.
 - Minimum of 2.75 GPA on all undergraduate coursework, preferably over 3.0 GPA.
 - Minimum of 3.0 GPA on all previous graduate level coursework, preferably over 3.5 GPA.
- The email address of at least three individuals who have agreed to write a recommendation letter on your behalf. Ideally, at least two letters are from academic references.
- A writing sample.
- You will enter your GRE or GMAT scores in the Graduate School application but will also need to submit official scores from ETS.

The Martin School does not have "cut-off" scores when it comes to the GRE (or other accepted admissions exam) and considers all aspects of students' records, including evidence of improving performance during students' academic careers. The final selection of students for admission will be subject to the discretion of the director of Graduate Studies based on the advice of the admissions committee of the Ph.D. program. Competitive admission is based on a consideration of the documents listed above.

Degree Requirements

Students are required to take 42 hours of graduate course work beyond the master's degree or its equivalent.

- The program of study includes 15 credit hours of core courses,

- PA 731 FISCAL AND BUDGETARY POLICY (3)
- PA 742 THEORY OF PUBLIC ORGANIZATIONS (3)
- PA 750 INTRODUCTION TO ECONOMICS FOR PUBLIC POLICY (3)
- PA 751 PUBLIC POLICY FORMULATION AND IMPLEMENTATION (3)
- PA 752 THE ECONOMICS OF POLICY ANALYSIS (3)
- 15 credit hours in the area of concentration,
- 3 credit hours of theory related to and supporting the student's area of concentration, and
- 9 credit hours of research methodology courses.
- In addition to course work, students complete two exams and a dissertation.
 - The dissertation involves research on a public management or public policy issue.
 - PA 767 DISSERTATION RESIDENCY CREDIT (2) (minimum of 2 semesters)

<https://martin.uky.edu/phd>

Radiation and Radiological Sciences, PhD

Medical Physics is a profession that includes clinical, industrial and academic practices. The Radiation and Radiological Sciences PhD program is designed primarily for students who desire to enter a clinical career, but who want to acquire the additional skills and credentials that accompany a PhD. This educational program is provided by the Departments of Radiation Medicine and Radiology, both of which are clinical departments within the UK Healthcare enterprise, thus providing a unique culture and context to the training. Research areas involve collaborative efforts between students, clinical physicists and physicians, and often possess direct clinical applicability. The collaborative nature of the program structure allows for didactic, clinical and research training in therapeutic and diagnostic medical physics. Additional information is available on our website at <https://radiationmedicine.med.uky.edu/radiation-sciences-graduate-program>.

Admission Requirements

A BS or MS in Physics is desirable, but students possessing related physical science backgrounds are eligible and qualified. At a minimum, candidates must show the equivalence of a minor in physics in all undergraduate work, as defined by the American Board of Radiology and CAMPEP. To meet the Minor in Physics requirement, candidates must have completed the following: 1) Calculus through Ordinary Differential Equations; 2) The Calculus based introductory General Physics sequence with labs (2 semesters); and 3) Three upper division Physics electives (junior level or above). Courses in Human Anatomy, Human Physiology, Computer Science, and Scientific Statistics are preferred but, if missing, may be incorporated into the graduate program at the discretion of the Director of Graduate Studies. An undergraduate GPA of 3.50 is highly desirable. The General GRE exam is required. While there are no absolute minimum scores required, a score on the Verbal section at or above the 60th percentile and a score on the Quantitative section at or above the 80th percentile are desirable.

An interview is required of all applicants being considered for admission. Fluent spoken English skills are required and are assessed during the interview. In addition, observation or job shadowing of a certified clinical Medical Physicist is very important when considering applicants for admission. Three Letters of Recommendation and a personal statement are also required. The deadline for applications is April 30th, however, offers for admission are usually made early in the preceding Spring semester with completion of the class roster by May. Therefore, it is recommended that applications be completed by January 31 to assure full consideration.

Degree Requirements

A minimum of 52 credit hours are required for the PhD degree consisting of 34 core credit hours and 18 elective credit hours. The elective credit hours (18) must include at least 6 hours of graduate level (i.e., 4xxG, 5xx, 6xx or 7xx) didactic coursework covering related topics in science, engineering, or medicine. The intent of this requirement is to encourage interdisciplinary collaboration and to develop rigorous scientific skills. The selection of the specific courses is variable. The remaining 12 elective credit hours may be fulfilled by any combination obtained from the list of "Available PhD Electives" below. These credits must be approved by the student's dissertation advisor. In addition, completion of 48 hours is required for pre-qualifying residency. Post-qualifying residency must be a minimum of 4 credit hours of RAS 767. Students must maintain at least a 3.0 GPA for retention in the program. A student's progress will be reviewed annually by their graduate committee and any deficiencies or concerns identified will be followed up with the student. The qualifying exam will consist of two major components, one written and one oral. Students must pass both to be allowed to progress in the PhD program. The written component will be a problem-based exam consisting of 4 subject areas. These are:

1. General Radiological Physics and Dosimetry
2. General Physics of Medical Imaging
3. General Physics of Radiation Therapy
4. Elective Subject (select one from the following list)
 1. Advanced Radiation Therapy Physics
 2. Advanced Medical Imaging Physics
 3. Other topic approved by the Advisory Committee

The written exam is given over a two non-sequential day period. Day one will cover subject areas 1, 2, and 3 while day two will cover section 4. The written exam will typically be taken in the second year of the program and a score of 50% or greater will be required in order to pass. Students who do not pass on the first attempt will be allowed a second attempt. If the second attempt is unsuccessful then the student will not be allowed to proceed in the PhD program. Such students will, however, be allowed to attempt to complete the degree requirements for an En passant MS degree in Radiation Sciences and be awarded that degree upon successful completion. The qualifying oral exam will be taken after successful completion of the written exam, but typically not to exceed 3 years from the initial date of enrollment. The student must orally defend a proposal for the selected dissertation topic. The proposal defense will be delivered to the student's dissertation advisory committee.

Required Core Courses (34 credit hours)

RAS 472G/RM 472G INTERACTION OF RADIATION WITH MATTER (3)

RAS 545/RM 545/PHY 545 RADIATION HAZARDS AND PROTECTION (3)

RAS 546/RM 546/PHY 546 GENERAL MEDICAL RADIOLOGICAL PHYSICS (3)

RAS 601/RM 601 ADVANCED RADIATION DOSIMETRY (2)

RAS 647/RM 647 PHYSICS OF DIAGNOSTIC IMAGING I (3)

RAS 648/RM 648 PHYSICS OF DIAGNOSTIC IMAGING II (3)

RAS 649/RM 649 PHYSICS OF RADIATION THERAPY (3)

RAS 651 ADVANCED LABORATORY IN DIAGNOSTIC IMAGING PHYSICS (2)
RAS 695/RM 695 RESEARCH IN HEALTH-RELATED RADIATION SCIENCES (4)
RAS 710 RADIATION SCIENCE SEMINAR (SUBTITLE REQUIRED) (1)
RAS 711 RESEARCH METHODS IN MEDICAL PHYSICS (1)
RM 740/BIO 740 MAMMALIAN RADIATION BIOLOGY (2)
RAS 767 DISSERTATION RESIDENCY CREDIT (4)

Elective Courses (18 credit hours) Partial Listing

RM 660 GRADUATE PRACTICUM IN RADIATION MEDICINE (1-6)
RAS 650 PHYSICS OF RADIATION THERAPY II: BRACHYTHERAPY PHYSICS (2)
RM 842 RADIATION ONCOLOGY (1)
RM 848 PRACTICUM IN BRACHYTHERAPY PHYSICS (1-3)
RM 849 PRACTICUM IN EXTERNAL BEAM THERAPY PHYSICS (1-6)
EE 630 DIGITAL SIGNAL PROCESSING (3)
EE 635 IMAGE PROCESSING (3)
BME 540 BIOMEDICAL INSTRUMENTATION (3)
BMI 730 PRINCIPLES OF CLINICAL INFORMATICS (3)

Other Electives may be used with approval of the Dissertation Advisor

Rehabilitation Sciences, PhD

The mission of the Rehabilitation and Health Sciences PhD Program is to fulfill a leadership role in addressing the rehabilitation and health needs of individuals in the Commonwealth of Kentucky and beyond through research, education and service.

The Rehabilitation and Health Sciences PhD program is an interdisciplinary and interinstitutional program led by the University of Kentucky in close cooperation with Eastern Kentucky University, and Western Kentucky University. The educational and research expertise of these universities and faculties creates a program that enables its graduates to provide academic, research, and clinical leadership. The Rehabilitation and Health Sciences PhD Program graduates will receive their Ph.D. from the University of Kentucky.

Students in the program have the unique opportunity to study with faculty from the different health professions offered in the participating institutions, such as athletic training, communication science and disorders, occupational therapy, physical therapy, physician assistants and health services research, and take courses from faculty specialized in these disciplines. Students in other disciplines can also apply and are accepted on an individual basis.

Admission Requirements

Individuals applying for admission must hold at least a professional or post-professional master's degree. Eligibility for licensure or clinical certification in Communication Sciences & Disorders, Athletic Training, Occupational Therapy, Physician Assistant or Physical Therapy is encouraged, but not required for admission into the program. Those with basic science graduate degrees and interests are also welcomed to apply and will be considered equally for admission. Acceptance into the Program is dependent upon identifying and matching your area of research interest with an RHB faculty member willing to serve as your doctoral studies program mentor.

Degree Requirements

44 Total Credit Hours

Required Core Courses:

- RHB 701 REHABILITATION AND HEALTH SCIENCES THEORIES & APPLICATIONS THROUGH THE LIFE SPAN (3 credits)
- RHB 714 CRITICAL APPRAISAL OF RESEARCH IN REHABILITATION AND HEALTH SCIENCES (3 credits)
- RHB 720 RESEARCH IN REHABILITATION AND HEALTH SCIENCES (3 credits)
- RHB 771 RESEARCH SEMINAR IN REHABILITATION AND HEALTH SCIENCES (2 credits spread out over 2 semesters)
- RHB 775 PROFESSIONAL SEMINAR IN REHABILITATION AND HEALTH SCIENCES: RESPONSIBLE CONDUCT IN RESEARCH AND ETHICS (1 credit)
- Two out of the following 3 courses are required:
 - RHB 772 PROFESSIONAL SEMINAR IN REHABILITATION AND HEALTH SCIENCES: ACADEMIA & BEYOND (1 credit)
 - RHB 773 PROFESSIONAL SEMINAR IN REHABILITATION AND HEALTH SCIENCES: GRANT WRITING (1 credit)
 - RHB 774 PROFESSIONAL SEMINAR IN REHABILITATION AND HEALTH SCIENCES: ISSUES IN TEACHING AND LEARNING IN HIGHER EDUCATION (1 credit)

Required:

- 6 credits in Research Methodologies
- 12 credits in area of specialization
- 6 credits in Research apprenticeship (RHB 789)
- 2 credits in Teaching apprenticeship (RHB 787)
- 4 credits in Dissertation hours (RHB 787)

Students must obtain a grade of "B" or better in RHB core courses.

Students are allowed a grade of a "C" in only two credited activities (class, seminar, independent study, research experience, or apprenticeship) during their doctoral education.

A grade of E in any coursework is grounds for dismissal from the program.

<https://www.uky.edu/chs/rehabilitation-sciences-phd-program>

Social Work, PhD

The purpose of the PhD in social work is to prepare students to be "stewards of the discipline" (Walker et al., 2008 as cited in GADE, 2013). Students' areas of scholarship should stem from the mission and purpose of the profession: "to enhance human well-being and help meet the needs of all people, with particular attention to the needs and empowerment of people who are vulnerable, oppressed, and living in poverty" (NASW Code of Ethics, 2017). Through course work, as well as the Preliminary and Qualifying Examinations, and dissertation development, students develop the capacity for scholarly inquiry and action that are the foundations for creative, independent, and meaningful scholarship. The PhD in social work also offers coursework and mentored teaching experience to develop and strengthen students' skills as social work educators.

The UK CoSW PhD program is designed so that students will attain knowledge and skills associated with:

- A social problem that is addressed in the dissertation
- Theories that underlie interventions and approaches to the social problem
- Empirical research methodology, statistics, and other analytic techniques
- Effective approaches to teaching and mentoring future social workers.
- Expertise in a particular interest area
- Creating publishable research and making scholarly contributions to the profession

Admission Requirements

- a master's degree in social work from a program accredited by or judged to be equivalent by CSWE (applicants with other master's degrees can also be considered)
- at least two years' post-master's full-time, paid experience in social work is preferred
- an undergraduate grade point average (GPA) of 3.0 on a 4.0 scale and a graduate GPA of 3.5
- official transcripts from each college/university attended
- Graduate Record Examination (GRE) test scores
- three letters of reference that address their potential for success in a research-oriented doctoral program and aptitude for research and teaching. Recommendations from individuals who have supervised your research and scholarly work (e.g., research project supervisors, thesis advisors, professors) tend to be the most useful to the admissions committee and should comprise the majority of the letters.
- a writing sample or publication
- a personal statement that describes career and research interests, motivation for pursuing a PhD, what attracts the applicant to the PhD program at UK, and any other factors that should be considered in the evaluation of the application.

Degree Requirements

The minimum requirements for the PhD include:

- Core Curriculum - 29 credit hours
- The pedagogical mission of the PhD core curriculum is to help students understand, apply, and implement the most up-to-date and effective analytic tools available from the human, behavioral, and social sciences to meet the challenges facing the doctoral level researcher, teacher, and practitioner. The sequencing of the course work moves the student from foundational principles and analytic skills necessary for scientific research, to the application of specific research design and statistical methods necessary for design and implementation of specific projects. Three courses focus on theory development, five on the mastery of research and statistical approaches, one on the theory and methodology of teaching; and two professional seminars introduce the students to the professional development, research, and service related activities of social work scholars and faculty.
- Individualized Plan of Study - 15 credit hours
- 9 credit hours - Individualized Study (elective courses selected in consult with advisor; these can be taken outside the CoSW)
- 6 credit hours - Research/Teaching Practica (SW 786 / SW 787 ; students typically do one of each)
- Preliminary exam - Systematic Literature Review
- Dissertation Research Residency - (at least) 4 credit hours of SW 767

Sociology, PhD

The Sociology graduate program offers Master of Arts and Doctor of Philosophy degrees. Graduate students choose an area of specialization related to the following faculty areas of expertise: Crime, Law, and Deviance; Environment and Society; Health and Medical Sociology, and Social Inequalities. Additionally, students must demonstrate competence in sociological theory and social science research methods.

To aid in financing graduate education, a number of teaching or research assistantships are available to qualified students. Outstanding students may compete for fellowships.

Opportunities for multidisciplinary work exist in conjunction with centers and programs at the University of Kentucky including the Appalachian Center and Appalachian Studies, Center for Health Equity Transformation, Center for Research on Violence Against Women, Prevention Research Center, Center on Drug and Alcohol Abuse, Center for Poverty Research, Committee on Social Theory, Commonwealth Institute for Black Studies, Cooperative for Humanities and Social Sciences, Gender and Women's Studies, Quantitative Initiative for Policy and Social Research, and the Sanders-Brown Center on Aging. Assistantships and traineeships are also available to qualified sociology graduate students through these centers and programs.

Admission Requirements

The following materials are required to apply for admission to the graduate program in Sociology and should be sent directly to the Graduate School's application system website. Any inquiry on the program requirements and the admission process should be directed to the Director of Graduate Studies of the Department of Sociology.

- The percentile rankings of the three components of the Graduate Record Examination (GRE) must average (mean) at least 50 percent.
- A statement of goals and reasons for pursuing an advanced degree in sociology. It is helpful if applicants also address the field(s) of interest within sociology they may wish to pursue in their graduate studies.
- A sample of writing, preferably in the form of a term paper, an extensive essay, or a draft of a senior thesis. If the applicant has completed a master's degree, she or he may submit one or two chapters from the master's thesis. Please do not submit a copy of the entire master's thesis.
- Three letters of recommendation.
- Undergraduate and graduate transcripts, if applicable.
- TOEFL/IELTS scores, if applicable.

Degree Requirements

36 total credit hours pre-residency

Core requirements

- SOC 681 QUANTITATIVE ANALYSIS I
- SOC 781 QUANTITATIVE DATA ANALYSIS II
- SOC 651 CLASSICAL SOCIOLOGICAL THEORY
- SOC 751 CONTEMPORARY SOCIOLOGICAL THEORY
- SOC 680 SOCIAL INVESTIGATION

Students are also required to take an addition 6 credit hours of social science research methods from a wide selection of approved courses.

Of the 15 hours of electives, 12 must be sociology courses and 12 must be in the student's area of specialization.

Ph.D. students must also pass a comprehensive exam, qualifying exam, dissertation prospectus defense, and dissertation defense.

<https://soc.as.uky.edu/sociology-graduate-program>

Special Education, PhD

The goal of the Special Education Leadership Personnel Preparation Program is to prepare students to assume positions as educators, researchers, and scholars in higher education settings. The program leads to the Doctor of Philosophy in Education degree (Ph.D.).

Students in the Ph.D. in the Department of Early Childhood, Special Education, and Counselor Education may select program focus areas in applied behavior analysis, assistive technology, learning and behavior disorders, moderate and severe disabilities, and interdisciplinary early childhood education. There is a formal option in Counselor Education. See the Counselor Education Doctoral Program that offers a Departmental Ph.D. degree with a formal option in Counselor Education, Research, and Policy.

Admission Requirements

Admission requirements for the Ph.D. program include:

- A minimum undergraduate cumulative grade point average of 2.75.
- Combined scores on the verbal and quantitative portions of the Graduate Record Examination (GRE) of 300 (current scale) or 1000 (prior scale).
- A fifth-year certification OR a master's degree in special education, interdisciplinary early childhood education, or counselor education with a minimum grade point average of 3.5.
- A minimum of three (3) years of successful experience in special education or related field.
- At least four (4) positive recommendations attesting to the candidate's ability as a professional with potential for success in doctoral study.
- A statement of the applicant's objectives for completing a doctoral program.
- A personal statement or brief autobiographical statement of the applicant.
- A sample of the applicant's academic or professional writing.

If an applicant meets these criteria and appears to have the background, academic record, experience, and professional objectives that are consistent with Departmental expectations, the person is invited to campus to interview with faculty and to meet current doctoral students. If the candidate is unable to visit the campus, arrangements can be made for telephone or web-conference interviews with members of the Department's Graduate Admissions and Standards Committee (GASC). However, it is highly recommended that applicants visit campus.

The GASC then makes a decision about admission. If all criteria are met, a recommendation is forwarded to the Graduate School via the Department's Director of Graduate Study (DGS). Typically, admission decisions are made no later than 30 days after the interviews have been completed.

Deadlines: Application deadlines are March 1 for Fall applications and October 1 for Spring applications.

Degree Requirements

The first phase of study (up to 18 semester hours) is considered the preliminary year. During this period, students are expected to demonstrate basic competencies in applied behavior analysis, assessment, general special education content, instructional strategies, and technology. They may do this by fulfilling the requirements of the required graduate core courses.

Each student is required to develop and maintain a portfolio with entries included from each course. Collectively, these entries should reflect the post-doctoral role within institutions of higher education and/or other services for which the student is preparing. Thus, entries will include but are not limited to: (a) developing training curricula, (b) teaching content and methods courses, (c) supervising practicum experiences, including student teaching, (d) advising students, (e) providing consultation and other services, (f) giving professional conference presentations, (g) conducting research, including writing scholarly publications, and (h) writing research and training grant proposals for extramural funding in special education. The student work is guided, during the first year, by a temporary advisor, who may be selected by the student with the approval of the Department's DGS. In the event that the student's choice of an advisor is not available, or if the student does not have a choice, the DGS will appoint a temporary advisor after consulting with the Department's GASC.

Students then select a faculty member to serve as a mentor. After obtaining the consent of a faculty member to serve as mentor, the student and mentor also select an Advisory Committee of three additional faculty members who will assist in the development and supervision of the student's program of study.

Coursework, independent study products, and practicum experiences are selected by the student's doctoral advisory committee to ensure that this level of specialization is appropriate for a person at the doctoral degree level. Following the guidelines adopted by the College of Education, the doctoral program must consist of a minimum of 42 credit hours past the master's degree. Most doctoral students take between 60 and 100 semester hours of coursework (including the master's degree).

Core requirements

Specific course requirements for individual students will vary according to each student's background and stated objectives. Competency lists that have been developed by faculty in the Department guide the selection of courses and related training experiences. However, each student must complete a graduate core (23 credits), coursework in a departmental area of emphasis consisting of at least 15 credits, coursework in a support area (a minimum of 15 credits), and a research block of courses (minimum of 21 credits). The coursework is divided among four areas:

1. Special education personnel preparation
2. An area of emphasis selected from the following:
 - Applied behavior analysis
 - Assistive technology
 - Interdisciplinary early childhood education
 - Learning and behavior disorders
 - Moderate and severe disabilities
3. A thematic support area from outside the department area of emphasis.
4. A research block of courses.

Students complete required doctoral core requirements include the following courses:

- EDS 601 CONCEPTS AND PRINCIPLES OF APPLIED BEHAVIOR ANALYSIS (3) **or**
- CED 740 ADMINISTRATION, SUPERVISION AND PROGRAM EVALUATION IN REHABILITATION COUNSELING (3)

- EDS 633 SINGLE CASE RESEARCH METHODOLOGY (3) **or**
- CED 735 ADVANCED METHODS FOR TEACHING AND CONDUCTING RESEARCH IN COUNSELOR EDUCATION: FROM THEORY TO PRACTICE (3)
- EDS 701 SEMINAR FOR EDSCE LEADERSHIP PERSONNEL (1 credit each, 4 semesters)
- EDS 710 SEMINAR IN MILD DISABILITIES (3) **or**
- EDS 711 SEMINAR IN MODERATE AND SEVERE DISABILITIES (3) **or**
- IEC 709 SEMINAR IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION (3) **or**
- CED 711 SEMINAR IN ADVANCED REHABILITATION PRACTICES AND PROCEDURES (3)
- EDS 712 SEMINAR IN EDSCE PROFESSIONAL SERVICES (3)
- EDS 720 SEMINAR IN EDSCE TEACHER PREPARATION (3)
- EDS 721 PRACTICUM IN EDSCE PERSONNEL PREPARATION (3)
- EDS 767 DISSERTATION RESIDENCY CREDIT (3-9) EDS 767 is taken for a minimum of two credits per semester for two semesters (excluding summer terms) after successful completion of the qualifying exam

Electives

The student's electives are individually determined by the doctoral advisory committee.

<https://education.uky.edu/edsrc/eds/degrees-programs/doctorate/>

Statistics, PhD

The Department of Statistics offers programs of study leading to the degrees of Master of Science (Plan A or B available), Doctor of Philosophy, and Master of Applied Statistics (Online). The M.S. degree is professionally oriented for the student who plans a career in government, business or industry and is preparatory for the Ph.D. The Ph.D. program offers a broad training in both statistical theory and methods while affording options to suit the student's interests. The statistics Ph.D. is well-suited for academic, business, government and industrial positions. In addition to formal course work and research training, the advanced student has opportunities to gain valuable practical experience by participating in consulting activities under faculty supervision. Master of Applied Statistics is an innovative online professional graduate degree which is designed to train professional, practice-oriented statisticians who have both data analytic and computing skills.

Both, the M.S. and the Ph.D. program offer a Mathematical Statistics track, as well as a Biostatistics track. The latter tracks are designed for students who envision a future at the interface of Statistics and the Life Sciences.

Course work is available in areas associated with statistics such as biological modeling, probability, inference, experimental design and analysis, computational statistics, nonparametric methods, Bayesian analysis, mixed modeling, multivariate analysis, survival analysis, clinical trials, and many other selected topics of the student's choice.

The University of Kentucky is represented on the Committee on Statistics of the Southern Regional Education Board.

Admission Requirements

Students with an undergraduate major in any of the mathematical, physical, biological, social or applied sciences are encouraged to apply. The minimum GRE and GPA admissions requirements for the M.S. and Ph.D. programs in Statistics are the same as for the Graduate School. However, the number of admissions is limited and admissions decisions are made on a competitive basis. All M.S. applicants must have successfully completed a three or four semester sequence in calculus and a course in linear algebra and have good communication skills. In addition, all Ph.D. applicants must have mastered the equivalent of MA 471G. All Master of Applied Statistics applicants must have completed two semesters of calculus and a course in statistical methodology. Students wishing to apply for teaching assistantships and/or fellowships must submit three letters of recommendation. Applicants wishing to be admitted directly to the Ph.D. program must have an M.S. in Statistics and the permission of the Director of Graduate Studies.

Please see the departmental website for up-to-date information and answers to frequently asked questions about the admissions process.

Degree Requirements

The core curriculum in statistics is designed to provide doctoral candidates with a firm foundation in probability theory, inference, and classical methodology. In addition, the theory and application of computational statistics, biostatistics, and state-of-the-art inferential procedures are an integral part of the core curriculum.

Students in the doctoral program in statistics will choose one of two areas of specialization, 1) mathematical statistics/probability or 2) biostatistics. The requirements for these areas of specialization are:

Mathematical Statistics/Probability

- STA 701 ADVANCED STATISTICAL INFERENCE I
- STA 703 ADVANCED PROBABILITY
- STA 705 ADVANCED COMPUTATIONAL INFERENCE
- STA 707 ADVANCED DATA ANALYSIS
- STA 702 ADVANCED STATISTICAL INFERENCE II

Biostatistics

- STA 701 ADVANCED STATISTICAL INFERENCE I
- STA 703 ADVANCED PROBABILITY
- STA 705 ADVANCED COMPUTATIONAL INFERENCE
- STA 707 ADVANCED DATA ANALYSIS
- STA 709 ADVANCED SURVIVAL ANALYSIS

All students must take an additional six elective courses chosen by the student and approved by the DGS. These courses must be chosen from among STA 612 , STA 616, STA 621 , STA 624 , STA 626 , STA 630 ,

STA 635 , STA 643 , STA 644 , STA 653 , STA 661 , STA 662 , STA 665 , CPH 631, CPH 636, and CPH 664. STA 695 will also be considered on a case-by-case basis. If a student completes both STA 702 and STA 709 , the student may choose their official track and count the non-required course as an elective. Note that STA 715 (reading course) may not be used to satisfy elective requirements. Students must successfully complete a common written exam over STA 701 and STA 703 plus respective prerequisites. A student who takes both STA 653 and CPH 664, may only receive credit towards the degree for one of these two courses.

Students must pass a uniform written exam over STA 701 and STA 703 plus respective prerequisites. This exam will normally be offered in January and students will usually sit for the written examination at the beginning of the Spring semester in the third year of the program. The uniform exam can be repeated once. After completion of tract course requirements and successful completion of the written exam, students must also successfully complete an oral qualifying exam which is scheduled through the Graduate School and administered by the student's advisory committee. A significant part of this exam is to be a dissertation proposal.

Areas of current research interest can be found by going to the Department of Statistics faculty web page <https://stat.as.uky.edu/>.

All students, master's and doctoral, will be required to take part in an internship program. This will usually consist of teaching (three or six semester hours) or an equivalent amount of work in a research assistantship working with researchers across campus.

Studies in Higher Education, PhD

The PhD Program Studies in Higher Education requires research on some aspect of higher education, broadly defined. Students may select an area of concentration from the history and philosophy of higher education, the socio-cultural study of higher education, legal and organizational study of higher education, or research, measurement, and evaluation in higher education. Ph.D. dissertations are expected to advance knowledge in the field and/or further develop existing theory.

In addition to the above areas of concentration, the Studies in Higher Education PhD also has two optional Specializations:

- A PhD Studies in Higher Education specialization in Institutional Research (SHED-IR) prepares students to identify information needs; collect, analyze, interpret, and report data and information for planning and evaluation; and assist organizations in utilizing these data and information to make informed decisions.
- A PhD Studies in Higher Education specialization in Diversity, Equity, & Inclusion (SHED-DEI) prepares students for high-level administrative positions in diversity, equity, and inclusiveness leadership in higher education settings. This specialization includes completion of a nine-credit Graduate Certificate in Senior Diversity Officer Leadership.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,

- A master's degree or equivalent level of coursework
- A statement of purpose describing the student's intellectual and professional goals for completing the program. Applicants are advised to clearly indicate the areas of coursework and research they wish to pursue.
- For those wishing to specialize in Institutional Research or Diversity, Equity, & Inclusion, an additional application essay is required.
- Four letters of reference with at least two from referees familiar with the students' academic work
- Resume or Curriculum Vitae
- Writing sample demonstrating academic writing (e.g. chapter of master's thesis, course paper, scholarly essay)
- Application Deadlines October 1st and February 1st

Degree Requirements

- 43 Credit hours
- All EPE students are required to take EPE 601 PROSEMINAR (1 credit hour) during their first semester of study in the department.
- All PhD Students are required to complete 12 hours of research coursework chosen in consultation with their advisor
- All SHED doctoral students build a program of study consisting of the above 12 hours of research coursework, 18 hours of coursework in their concentration, and 12 hours of contextual study. All courses are chosen in consultation with their advisory committee. This individualized program provides both content and conceptual strength to identify compelling research questions in the field of higher education writ large. A specialization is not required.
- The SHED-Institutional Research Specialization includes EPE 560 ASSESSMENT AND SCHOOL DATA ANALYSIS, EPE 619 SURVEY RESEARCH METHODS IN EDUCATION (SUBTITLE REQUIRED), EPE 620 TOPICS AND METHODS OF EVALUATION, EPE 663 FIELD STUDIES IN EDUCATIONAL INSTITUTIONS or EPE 797 HISTORICAL RESEARCH ON EDUCATION, and an internship (EPE 790). These courses can be taken as part of the research requirement or concentration and will be complemented by the student's choice of electives.
- The SHED-Diversity Equity & Inclusion Specialization includes EPE 751 STRATEGY, STRUCTURE, & CHANGE MANAGEMENT FOR SENIOR DIVERSITY LEADERSHIP, EPE 752 POLICY & PROFESSIONAL PRACTICE FOR SENIOR DIVERSITY LEADERSHIP, and a choice of EDL 701, EDL 702, or EDL 703 courses on organizational change and leadership. These courses make up nine of the 18 hours of concentration.
- A student's program of study may vary from this structure with approval from their program committee.

Toxicology and Cancer Biology, PhD

The Department of Toxicology and Cancer Biology is a multidisciplinary unit for research, graduate education, and professional training in the broad areas of Toxicology and Cancer Biology. The program was founded in 1969 in the Graduate School, as one of nation's first Ph.D. programs in Toxicology and moved to College of Medicine (COM) in 2004. Our education mission is to provide students with an education in Toxicology and Cancer Biology that is based on an understanding of biochemistry, physiology, molecular/cell biology, genetics and metabolism, coupled with in-depth research experience on the mechanisms by which specific agents induce toxicity, and/or the basic cellular processes upon which environmental agents impact to cause disease. In addition, the department provides the only Master of Forensic Toxicology and Analytical Genetics (or degree of comparable nature) in the state and it is only the fifth such professional master's degree in the field of forensics in the nation.

The department is housed in the Health Sciences Research Building in the Medical Center within easy walking distance of all major research units and colleges. Excellent research support facilities are available, including transgenic mouse, macromolecular structure, mass spectrometry, nuclear magnetic resonance, proteomics, genomics, and metabolomics.

Our department consists of tenured/tenure track Core Faculty with a primary appointment in Toxicology and Cancer Biology, and is enhanced by faculty who have Joint Appointments in the department, but whose primary appointments are in Departments and Colleges across the University. The Department of Toxicology and Cancer Biology has graduated more than 150 PhDs in Toxicology who have gone on to careers in academia, government, such as the Environmental Protection Agency (EPA) and the Food and Drug Administration (FDA), and in the pharmaceutical and chemical industry. The department maintains a robust extramurally supported training environment, including an NIEHS T32 training grant for doctoral students in toxicology, which has been continuously funded since 1990 and has been renewed for funding until 2021.

The Ph.D. program in Toxicology is ranked in the top quartile in the National Research Council survey of doctoral programs in Toxicology. For more information on the Ph.D. program, please visit <https://toxicology.med.uky.edu/graduate-program>

Admission Requirements

Applicants must meet the following requirements for admission to the University of Kentucky Graduate School and the Toxicology and Cancer Biology program.

- An appropriate degree (e.g., Chemistry, Biological Sciences) from an accredited college or university.
- A minimum grade point average of 3.0 on a 4.0 scale.
- A Graduate Record Examination (GRE) score is not required.
- For international applicants, the minimum acceptable TOFEL score is 550 (paper-based), 213 (computer-based), or 79 (internet-based). The minimum IELTS score is 6.5.

More information on how to apply can be found here <https://toxicology.med.uky.edu/graduate-program>

Degree Requirements

The Ph.D. degree has no formal course requirements.

A proposed curriculum, prepared by the Chair of Advisory Committee (i.e., the student's mentor) in consultation with the student, should be approved by the student's Advisory Committee by December 15 in the students' second year of study.

Veterinary Science, PhD

The overall mission of the Veterinary Science graduate program is to train students to become creative and critical thinking scientists with the contemporary skills and knowledge to perform independent research and to effectively communicate their results. The primary goal of research in the Veterinary Science program is to improve our understanding of the biology of Equidae, with emphasis placed on investigating the causes and mechanisms that affect the production and performance of horses, regardless of breed.

Veterinary Science offers both the Master of Science (MS) and the Doctor of Philosophy (PhD) degrees, with specialization in infectious disease, parasitology, immunology, genetics, reproductive physiology, pharmacology, and musculoskeletal sciences. Each of these subspecialties has a general emphasis on the horse.

Admission Requirements

Applicants need a strong academic background with undergraduate course preparation in biology, chemistry and mathematics. Students accepted into the program should have an appropriate degree (i.e., in a STEM discipline) from an accredited institution, a minimum grade point average (GPA) of 3.0 on a 4.0 scale and a combined score (verbal plus quantitative) on the Graduate Record Examination (GRE) of not less than 300. Applicants with lesser qualifications will be accepted only on the recommendation of a graduate faculty member who is willing to support financially and serve as the research advisor for the student and with the approval of our full graduate faculty.

Degree Requirements

Students enrolled in the PhD program need to satisfy 36 credit hours of pre-qualifying residency, followed by at least two semesters of VS 767 (Dissertation Residency Credit; 2 credit hours/semester). For students with an earned Master's or DVM (or equivalent), up to 18 of the 36-hour pre-qualifying requirement may be waived at the discretion of the student's advisory committee, the DGS, and the Dean of the Graduate School.

Students pursuing both the MS and PhD in Veterinary Science must take two semesters of graduate-level biochemistry/molecular/cell biology (selected from CHE 550 & CHE 552 OR IBS 601, IBS 602, IBS 603, IBS

606) and one semester of graduate-level statistics (STA 570 or STA 580) or demonstrate equivalent coursework completed elsewhere. Students in the MS program must enroll in VS 770, Departmental Seminar, and give a presentation in at least one semester. Students in the PhD program must enroll in VS 770 and give presentations in at least 2 semesters. As well, VS 600, Ethics in Scientific Research, is strongly recommended.

Any additional coursework is determined by each student in concert with the major advisor and the PhD advisory committee.

<http://vetsci.ca.uky.edu/content/graduate-education>

Graduate Certificate

Advanced Materials Characterization Certificate

In the four course Advanced Materials Characterization Certificate (AMCC) students will explore techniques for characterizing and analyzing the atomic-through-mesoscale structure of materials and their surfaces. Students will learn the fundamental principles and limitations of a range of techniques, to prepare samples, and to operate state-of-the-art equipment. The program provides direct, hands-on experiences to both on-campus and distance learning participants by leveraging internet-based remote operation of characterization equipment in the UK Electron Microscopy Center.

Anatomical Sciences Certificate

The graduate certificate in Anatomical Sciences will provide a coherent integrated approach to helping graduate students, postdoctoral scholars, residents and others develop and document the skills needed in order to effectively teach the anatomical sciences. This 12 credit-hour certificate, including a required 3 credit-hour supervised practicum experience, provides basic competency in graduate-level anatomical sciences instruction and provides participants with documentation of their abilities. The certificate is accessible to participants from a wide range of disciplines and backgrounds and will provide practical, hands-on anatomy course work and instructional mentoring. The certificate will produce graduates who are highly competitive in the job market, as the numbers of individuals able to provide graduate-level instruction in the anatomical sciences is well above crisis level.

Applied Behavior Analysis Certificate

This 21-credit hour graduate certificate is designed to meet the coursework requirements for students that wish to pursue the Board Certification in Behavior Analysis (BCBA). To obtain a BCBA, there are 4 criteria that must be met including a master's degree, coursework covering the necessary 315 content hours, 2000 field experience hours, and passing the national board exam. This certificate will meet the coursework requirement of the certification.

Applied Environmental and Sustainability Studies Certificate

The online Graduate Certificate in Applied Environmental and Sustainability Studies prepares graduates for positions in the corporate, government, and non-governmental worlds as a sustainability manager, corporate

sustainability specialist, or one of many other fast growing environmental and sustainability professions. Students take a total of 12 credit-hours of graduate coursework. This consists of 9 credit-hours in Environmental and Sustainability Studies and a methods/skills elective. The curriculum is available [here](#).

Applied Nutrition and Culinary Medicine Certificate

The Graduate Certificate in Applied Nutrition and Culinary Medicine is an online, 12-credit program. This unique graduate certificate is a collaborative effort across the Colleges of Medicine, Health Sciences, and Agriculture, Food and Environment, leveraging faculty expertise from biomedical, clinical and applied sciences. Core coursework explores nutritional approaches to various disease states and practical culinary strategies to bridge dietary recommendations with application. Elective courses allow students to tailor their graduate certificate to the needs of their practice or discipline, while also presenting the latest research concerning drug and nutrient interactions, approaches to community program development, and the physiologic basis for (or against) various dietary supplements. This graduate certificate aims to provide a better understanding and appreciation for the importance of nutrition education for health professionals (physicians, nurses, physician assistants, physical therapists and medical professionals in postgraduate training, etc.) in multiple disciplines, and to recognize the importance of engaging registered dietitians to enhance health outcomes in patients. Post baccalaureate students interested in graduate nutrition education that meet the prerequisite requirements will also be considered for admission.

Applied Statistics Certificate

Statistical data analysis is ubiquitous in all areas of science, engineering, medicine, agriculture and education. Research and professional success in these disciplines often depends on using the latest advances in applied statistics. Multidisciplinary research projects involving a substantial component of applied statistics are becoming a frequent venue of expanding the borders of knowledge. This certificate will train graduate and professional degree students in the use of applied statistics in their own field. The students will be able to use this enrichment to become more productive professionals, to further research in their own areas and to engage in multidisciplinary research relying on applied statistical techniques.

Assistive and Rehabilitation Technology Certificate

The graduate certificate in assistive and rehabilitation technology is a collaborative effort between the Department of Early Childhood, Special Education, and Rehabilitation Counseling and the Department of Rehabilitation Sciences in the College of Allied Health and the Human Development Institute. Students may choose an emphasis from either special education or rehabilitation counseling. Both emphases will require three foundation courses, one related elective and one practicum course for a total of 15 graduate hours. The content of the certificate is broad. Major areas include Assistive Technology Devices, Assistive Technology Assessment and Coordination of Assistive Technology Services.

Autism Spectrum Disorders Certificate

The College of Education offers a graduate certificate in Autism Spectrum Disorders (ASD). The certificate is a collaborative effort between the department of special education and rehabilitation counseling, and the department of educational, school, and counseling psychology in the College of Education and the Department of Communication Sciences and Disorders in the College of Health Sciences. The primary purpose of this 15-credit hour certificate is to provide special education teachers and related personnel from across the state with advanced credentials that will allow them to implement evidence-based and research-based strategies. The certificate will accomplish the following:

- efficiently and effectively equip professionals to meet federal and state demands for quality
- provide professionals with the knowledge and skills to identify, use, and recommend researchbased practices for students who have ASD, including students from culturally and linguistically diverse backgrounds
- provide personnel with knowledge and skills to work collaboratively with district and schoollevel teams.

The specialized five course ASD graduate certificate program will include competencies in the following areas:

- implementing evidence-based and research-based instruction
- using data from formal and informal assessments to guide instruction, and
- serving as specialists in district and school-wide programs to support students with autism in improving areas of communication, socialization, behavior, and access to the general education curriculum

Baroque Trumpet Certificate

The certificate in Baroque Trumpet will complement existing programs in music education, music performance, and musicology. This new certificate program is needed because, currently, there is no Baroque trumpet component of any of these programs. Students in these programs study modern instruments. Their applied study (MUP 512, 612, 712, etc.) is on modern instruments, they are assessed (in the form of a jury) on their modern instruments, and all instruction is on modern instruments. The Baroque trumpet is an entirely different (and arguably much more difficult) instrument. The Baroque trumpet is an 8-foot long instrument with no valves.

Biostatistics Certificate

The graduate certificate in Biostatistics (GCB) is a 15-credit hour graduate certificate that allows students studying in programs outside the department of biostatistics to learn a basic background in the design and analysis of biomedical studies. The courses included in this certificate will provide students with an introduction to methodological applications in public health and medical research; skills that will be necessary for completing quantitative components of research projects and attractive to future employers.

Child Welfare Practice Certificate

The Child Welfare Practice graduate certificate is a specialization that prepares students for advanced practice with children and families who experience abuse and neglect. Both public and private child welfare settings will be examined with special emphasis on improving outcomes for these children and families. The certificate course work focuses on the complex factors that contribute to maltreatment and neglect, and emphasizes intervention strategies including evidence-based practices and process models. This is a post-baccalaureate certificate, so students do not need to be enrolled in a graduate program to apply.

Clinical and Translational Science Certificate

The graduate certificate in Clinical and Translation Science will serve as the entry point for graduatelevel training in clinical and translation science. The curriculum is designed to establish knowledgebased and skill-based competencies in communication, professionalism, critical thinking and synthesis of knowledge,

planning, management and assessment and leadership in five areas; CTS methods and technologies, scientific knowledge, measurement and statistics, research integrity and collaboration and team building. The certificate will be available to:

- faculty members at the University of Kentucky who are planning to participate in clinical and translational research but lack previous training and the skills necessary for clinical and translational research
- professionals in postgraduate training at UK, including residents and fellows in the college of medicine, college of pharmacy and college of dentistry
- graduate students in health-related PhD and MS programs
- project managers and other staff members interested in contributing to clinical and translation science
- professionals practicing in the community

Clinical Social Work Certificate

The Clinical Social Work graduate certificate prepares students for advanced practice in clinical social work. The certificate is designed to move students from the broader foundation of generalist social work practice to an advanced level of clinical knowledge and skills including application of social work practice in a variety of clinical settings. This certificate in Clinical Social Work examines psychopathology, assessment and evidence-informed treatment strategies and will provide an educational foundation to help prepare practitioners who seek clinical social work positions.

College Teaching and Learning Certificate

The graduate certificate in College Teaching and Learning provides a coherent, integrated approach to helping graduate students, postdoctoral scholars, current faculty, and others develop and document the skills needed as part of conscientious preparation for the full range of faculty responsibilities at a range of institutions of higher education.

College, Career, and Civic Life Teaching and Learning Certificate

The graduate certificate in College, Career, and Civic Life Teaching and Learning provides a coherent, integrated approach to helping graduate students, postdoctoral scholars, current faculty, and others develop and document the skills needed as part of conscientious preparation for the full range of faculty responsibilities at a range of institutions of higher education.

Computational Fluid Dynamics Certificate

The graduate certificate in Computational Fluid Dynamics (CFD) is available, in principle, to all graduate students in engineering and the mathematical, physical and biological sciences. CFD is a generally recognized sub-discipline of fluid dynamics, complementing use of theory and experimentation in the analysis of fluid behavior from sub-micro scales to intergalactic cosmological distances. CFD is highly interdisciplinary and areas of current interest include biological flows (e.g. Air in respiratory systems and blood in circulatory systems of animals), flows in porous materials (e.g. Remediation of contaminated ground water, extraction of oil from marginal deposits) and combusting flows (e.g. For higher energy conversion efficiencies and less pollutant production). Thus, competency in the use of CFD is becoming critical to the

advance of science and technology in the 21st century and it has become an essential engineering tool in industrial environments ranging from aerospace to food preparation and pharmaceuticals.

Developmental Disabilities Certificate

The graduate certificate in Developmental Disabilities prepares professionals from a broad range of disciplines to play a leadership role in providing services and supports for people with developmental disabilities and their families. An emphasis is placed on developing skills in the field of disability research. The course work emphasizes a life span and interdisciplinary perspective with an emphasis on promoting self-determination, community integration and inclusion. In addition to a broad, interdisciplinary perspective, students acquire a basic foundation in a number of specific, topical areas such as specialized health care services and financing, inclusive education, behavioral supports, employment and community living options, advocacy, legislation, assistive technology, organizational development and theory, group facilitation, and research proposal development. All courses are taught by an interdisciplinary faculty. Students have the opportunity to participate in a practicum and work directly with individuals with developmental disabilities and their families. Students also complete a research project under faculty supervision. Three didactic courses (HDI 600, 602 and 604) and one practicum course (HDI 603) are required for the certificate. In addition to the required courses, two or three hours of elective course work is also required; either HDI 601, HDI 605 or one elective from outside HDI courses and those courses required in the student's degree program.

Digital Mapping Certificate

The New Maps Plus graduate certificate in digital mapping is designed to serve the expanding landscape of mapping. This includes new professional sites and applications where maps are made by various people (from small business owners to non-profit managers to marketers) using all kinds of (often freely available) software and websites. Admissions requires a bachelor's degree but no prior GIS or mapping experience is necessary. Holders of the graduate certificate will be able to:

- Identify the appropriate applications of different forms of geospatial data, analytical techniques and mapping software platforms.
- Gather, integrate, transform and analyze geospatial data from multiple sources.
- Create static and interactive maps and visualizations in accordance with prevailing and rigorous cartographic standards.
- Develop basic web-based programs and scripts utilizing web standards to enhance user interaction with maps.
- Identify and implement appropriate applications of design components to maximize the usability of maps.
- Construct a publicly-available online portfolio of data, code, maps and accompanying explanations on an online sharing platform such as Github.

Distance Education Certificate

In response to increasing student demand, a large number of postsecondary institutions and agencies in public health, government and private business are developing distance learning programs. However, distance education requires a unique set of skills for course program development, management, support, and delivery. To prepare current and future faculty and administrators, the University of Kentucky offers a graduate certificate in distance education through the collaborative efforts of the Department of Early Childhood, Special Education and Rehabilitation Counseling and the Department of Curriculum and Instruction within the Instructional Systems Design (EISD) program and Distance Learning Programs.

Diversity and Inclusion Certificate

The graduate certificate in Diversity and Inclusion is an online, 12 credit hour certificate designed for a wide range of professional backgrounds in recognition of our increasingly diverse world and workplaces. The certificate provides both the knowledge and tools to develop, promote, and support inclusive environments through 8-week, online courses designed by faculty. Skills and knowledge gained through the certificate are highly sought after by today's employers and would be beneficial to business administrators, health care professionals, government employees, educators, and non-profit organizations.

Engineering in Healthcare Certificate

The Engineering in Healthcare graduate certificate offers didactic education and optional hands-on research experience in the application of engineering principles to healthcare problems. This 5 course/15 credit-hour (minimum) certificate is designed for students with a Bachelor's degree in engineering, chemistry, math or physics. Completion of the program will help students to:

1. distinguish themselves academically from their competition to professional school programs
2. engage in relevant educational experiences (including research) in the "gap year" between undergraduate studies and professional school
3. provide the foundation for enduring academic success by helping improve academic preparedness for professional school curricula
4. explore Biomedical Engineering as an adjunct (or primary) healthcare career option without formally committing to the master's degree program.

Students who complete this certificate have the option to apply most of the credits earned towards the Master's degree in Biomedical Engineering.

Eurhythmics Certificate

The University of Kentucky Eurhythmics certificate, typically earned with three years of satisfactory engagement in the summer institute workshops, features courses that apply to the music teacher's work with students of all ages using an approach to music education created by Emile Jaques-Dalcroze. Additionally, successful completion of the University of Kentucky eurhythmics certificate can serve as an entry into study for the internationally-recognized Dalcroze certificate. The Dalcroze approach has three branches: eurhythmics trains the body to respond kinesthetically to rhythmic and dynamic concepts. Solfège trains the ear, eye, and voice in pitch, melody, and harmony. Improvisation enables students to respond to concepts according to their own invention, through movement, voice, and at an instrument.

Executive Educational Leadership Certificate

The Graduate Certificate in Executive Educational Leadership is designed for school system leaders. The courses (EDL 676, EDL 677, EDL 678, EDL 682) correspond to the Kentucky Superintendent Licensure program and thus are a good fit for district-level leaders. In particular, this program is useful for private school and international school system leaders such as the role of Headmaster.

Explosives and Blasting Certificate

The graduate certificate in Explosives and Blasting offers a formal education in the use of explosives for commercial applications such as mining and civil engineering. Those disciplines require the use of explosives to fracture and remove the rock, to extract valuable minerals or to emplace infrastructure. The

curriculum is designed for mining and civil engineers or other engineering or related professionals that need to increase their knowledge in explosives and blasting. Significant areas include a review of basic concepts of explosives and blasting, advanced blast design, instrumentation for blasting, and the environmental aspects of blasting. The Explosives and Blasting Graduate Certificate is authorized to be delivered via online or hybrid format to students who are physically located in SARA member states and territories. Students who are residents of Kentucky have a waiver of 12 months towards the state blasting license.

Family and Consumer Sciences Certificate

The Family and Consumer Sciences graduate certificate program provides students with the knowledge and skills to positively impact the quality of individual and family life. The coursework provides students with the ability to amplify critical-thinking skills to address problems in diverse family, community, and work environments. Program graduates will enhance capacity-building skills that empower individuals and families to thrive in an ever-changing society. The 12-hour certificate is available to graduate students, as well as to practicing professionals and may be taken as a stand-alone program or as a part of a graduate degree program. The Family and Consumer Sciences graduate certificate is designed to partially meet the elective concentration component of the MS in Science Translation and Outreach.

Fundraising and Development Certificate

The graduate certificate in Fundraising and Development is designed to provide critical fundraising education to those who are currently working or seeking employment in nonprofit organizations. Nonprofit organizations across the United States are dependent on educated and skilled fundraisers. According to the National Center for Charitable Statistics there are more than 1.5 million registered nonprofit organizations - nearly all dependent on raising contributed income through fundraising efforts. Educational institutions, health, human services, relief agencies, arts and religious organizations are all reliant on donated funds to serve their beneficiaries. Therefore, knowledgeable fundraisers are needed to direct these efforts. Competition for fundraising has resulted in a strong job market and created a greater need for skilled and educated fundraisers.

Gender and Women's Studies Certificate

The graduate certificate in Women's Studies is intended to provide students with a coherent, interdisciplinary grounding in current gender and women's studies scholarship and to create an intellectual community among faculty and graduate students who share scholarly interests in gender and women's studies. The graduate certificate in women's studies may be taken to complement a student's disciplinary program, or it may be taken independent of the pursuit of any disciplinary graduate degree. For full information on this curriculum, please see our web page: <https://gws.as.uky.edu/gws-graduate-certificate>

General Radiological Medical Physics Certificate

The field of Radiological Medical Physics is the study of the use of radiation to diagnose and treat human diseases and is a relative newcomer in medically-related scientific disciplines. The first "radiological physics" practitioners were trained in the basic sciences, typically physics. Dedicated radiological medical physics education programs are a recent phenomenon. These programs strive to combine the scientific and medical aspects of the field but they remain small and few in number. To help meet the demand for workers in radiological medical physics, it has been common over the past 40 years to accept persons with closely related scientific backgrounds into the field and provide them with on-the-job training. Even today, a large fraction of practicing radiological medical physics have degrees in fields other than radiological medical physics. Many of these are leaders in the field and their contributions have been and will remain very

important. Their work experience has traditionally provided the pathway into certification for these radiological medical physicists. However, given the recent changes adopted by the medical physics education community, these potential outside candidates must document completion of a basic core curriculum in radiological medical physics in addition to a Ph.D. Degree received in a closely related discipline in order to qualify for certification by the American board of radiology (ABR) in radiological physics. The curriculum credit hours required for the graduate certificate in radiological medical physics totals 16.

Gerontology Certificate

The graduate certificate in Gerontology is an interdisciplinary curriculum offered by the Sanders-Brown Center on Aging. The certificate is a part of Sanders-Brown's complete range of research and educational activities that prepare both graduate students and practicing professionals from many disciplines to assume key roles in improving the quality of life for older adults and furthering our understanding of the aging process. Its interdisciplinary focus makes it possible for students to tailor their course work to support their own fields of interest.

Global Health Certificate

The goal of the graduate certificate program in Global Health is to provide a general foundation in the understanding of global health issues and the complex multiplicity of factors that affect them, and to provide some basic tools in health assessment methods to measure their impact. Given the widespread globalized nature of our world today, there is an increasing need for understanding the impact of globalization on health, both in terms of health patterns common across regions, and in terms of how what were once considered focal, limited local issues can transcend national and continental borders. The program is designed to prepare students for the increasing demand for international, interdisciplinary skills in the areas of public health prevention, health care and other health-related disciplines. The global health certificate will include a minimum of 15 credit hours - 12 of classroom coursework and 3 based on a required international internship course. The program is housed in the college of public health, but it is intended to be multidisciplinary and open to a variety of graduate students in any of the health sciences or other disciplines across campus. It is also available to professionals or other college graduates interested in obtaining this additional training.

Health Coaching Certificate

Health Coaching has been defined as, "...the practice of health education and health promotion within a coaching context, to enhance the wellbeing of individuals and to facilitate the achievement of their health-related goals" (Palmer et al., 2003). Health coaches help clients identify their goals, develop an action plan, and help put the plan into action while giving support and helping to motivate clients toward success. The Department of Kinesiology & Health Promotion at the University of Kentucky proposes a new 15-credit graduate certificate in health coaching designed to meet the supplemental education needs of current health promotion professionals and those training to become health promotion professionals. The graduate certificate would be open to any students who are already are or will be enrolled in a degree program, or those who simply apply for postbaccalaureate (non-degree) status in order to complete the certificate, are eligible to apply for admission.

Health Communication Certificate

The graduate program in Communication offers a certificate in Health Communication that is available to (a) students in the Ph.D. And M.A. programs in communication, (b) students in other doctoral programs at the university and (c) post baccalaureate students. The certificate program is aimed primarily at individuals

interested in developing specialized knowledge and research expertise in health communication that could be applied within both academic and nonacademic settings. Students are expected to have a background in social or behavioral science prior to entering the program. To earn the certificate, students must complete CJT 671 and 771 and either CJT 780 (section focusing on a health communication topic) or a graduate course in medical informatics, for a total of 12 credit hours.

High Performance Coaching Certificate

The University of Kentucky Department of Kinesiology and Health Promotion offers a Graduate Certificate in Health Coaching. Health Coaching has been defined as, "...the practice of health education and health promotion within a coaching context, to enhance the wellbeing of individuals and to facilitate the achievement of their health-related goals." The aim of the Graduate Certificate curriculum is to provide a foundation in current behavior change theories/models, motivational interviewing, as well as understanding of current health issues. Students may complete the certificate as a complement to a graduate disciplinary degree program or as a stand-alone curriculum. Students who are currently enrolled as a graduate student in a department at the University of Kentucky are encouraged to apply for the Health Coaching Graduate Certificate program early in their graduate studies. Students who are enrolled in the M.S. in Health Promotion program are eligible to count up to 9 credit hours from their program, requiring them to take six additional credit hours (on top of their M.S. curriculum) to complete the graduate certificate.

Historic Preservation Certificate

The graduate certificate in Historic Preservation is now available to both graduate students and practicing professionals. Certificate students have a choice of three areas of concentration: preservation and design; preservation and economic development; and preservation and planning. The certificate requires 12 credit hours, and is a great way to gain an advantage in an increasingly competitive job market. The certificate consists of two core courses, and two courses from the area of concentration. The graduate certificate may be earned concurrently with a master's degree in any other field, such as architecture, interiors, history, anthropology, engineering, or business. It may also be earned by professionals who already possess a bachelor's degree in another field. Previous design experience or education is not a requirement for acceptance into the certificate program. Knowledge of the values and legal framework that drives preservation decisions is useful to numerous professions in today's world. Certificate students will learn preservation principles, tools, and techniques that will allow them to apply their base knowledge within a historic context.

Human Resource Management Certificate

The Graduate Certificate in Human Resource Management (GC-HRM) provides an opportunity to obtain a set of competencies to effectively manage an organization's employees and contribute to its talent strategy. The courses within the certificate focus on talent acquisition, talent management, employment law, and the effective use of analytics to manage human capital. The program also features an experiential capstone course giving students the ability to apply principles and techniques learned in their coursework to solve real organizational problems. This 15-credit certificate is appropriate for recent graduates hoping to learn more and better prepare themselves for a career in human resources and for working professionals who recognize the need to deepen their understanding and update their skills in this increasingly complex field.

Human Technology Interaction Certificate

The certificate in Human-Technology Interaction brings together students in the social, behavioral, and health sciences with students in the design professions. It is intended specifically for:

1. those in the social, behavioral, and health sciences who would like to learn how their disciplinary knowledge can be used to enhance the safety, productivity, and satisfaction of people interacting with both "high-tech" and "low-tech" systems
2. those in the design professions who would like to apply principles derived from the study of human abilities, limitations, and preferences to the design of new or modified technology. Students from engineering, instructional systems design, architecture, graphic design, computer science, and other design fields are welcome to apply
3. those interested in exploring career options in ergonomics, human factors psychology, or usability engineering.

The certificate requires 15 hours of graduate work, including two foundation courses, two elective courses, and one practicum or research experience.

Improving Healthcare Value Certificate

The Graduate Certificate in Improving Healthcare Value is an inter-disciplinary program and will be led by a small team composed of senior faculty members from the College of Public Health, the College of Business and Economics, and the College of Engineering. This certificate is intended to create educational opportunities for UK graduate students in a range of disciplines, for UK HealthCare staff, and for other healthcare workers to enhance their knowledge and skills related to improving the value (quality and cost) of health care services provided by hospitals, health systems, and academic medical centers.

Instructional Coaching Certificate

The graduate certificate in Instructional Coaching prepares veteran educators to lead job-embedded professional development efforts in P-12 schools. The two required courses (ELS Leadership in Communities of Practice, EDL 638 Instructional Coaching and Mentoring) and an elective course (ELS 600 Leadership in Learning-Centered Schools, EDL 669 Leadership for Creative Problem Solving, or ELS 624 Leadership Practicum) provide leadership development focused on facilitating teacher teams, coaching novice and veteran teachers, solving problems creatively, and supporting adoption of innovation and renewal initiatives. This certificate is one of four offered by the Department of Educational Leadership Studies.

Instructional Communication Certificate

The 12-credit hour graduate certificate in Instructional Communication is designed to help students achieve instructional communication competency that can be applied in a wide range of contexts. Specifically, this program will:

1. provide students with a multi-faceted view of instructional communication theory and research methods
2. prepare to students to effectively plan, lead and assess communication effectiveness in diverse instructional contexts
3. provide students with the knowledge and skills to be competitive in a knowledge and technology-driven society.

International Education Certificate

The graduate certificate in International Education will prepare graduate students for careers in international education, including but not limited to education abroad, international student services, and placement in other international organizations which support the exchange of students. The field of international education

is a critical component of the internationalization of higher education in the United States and abroad. This certificate is designed for any graduate student (or admitted postbaccalaureate student) wishing to enhance their graduate degree. The proposed curriculum includes a combination of nine hours of core courses and six hours of elective coursework. In preparing to complete their certificate, students must identify a regional concentration, and are encouraged to participate in some form of professional or experiential learning opportunity to acquire skills in management, program development, and/or assessment. Although the certificate does not require language coursework as part of the curriculum, participants are also required to describe their language proficiency relative to their professional and regional concentration so that they are aware of and prepared to be competitive in the field.

Latin American, Caribbean, and Latino Studies Certificate

This certificate is directed primarily at graduate students whose intended academic and/or professional careers in research, teaching, and public or private sectors incorporate a focus on the geographical and cultural region of Latin America, the Caribbean, and the populations of Latin American and Caribbean descent living in the United States, Europe, and other parts of the world. It provides graduate students with the skills and knowledge to connect Latin American, Caribbean, and Latino topics to their research agendas. It is pursued concurrently with the regular MA and PhD degree programs of participating departments. To be awarded the graduate certificate in Latin American, Caribbean, and Latino/a studies, the student must successfully complete four courses amounting to 12 graduate credit hours with an overall GPA of 3.0 or higher.

Latin Studies Certificate

The Latin Studies certificate curriculum, consisting of a sequence of four courses in Latin language and literature, aims at two groups of students in particular. First, it is aimed at graduate students who need strong Latin skills for any academic discipline in which Latin is important, including not only classics, but also history, philosophy, theology, etc., and who are already engaged in, or hope to undertake advanced study in one or more of these fields. The certificate curriculum will offer to such students an interdisciplinary opportunity to gain a superior command of Latin in a highly concentrated format, but in a relatively brief period of time. Second, it is aimed at the training of new Latin teachers for the high school level and even pre-high school instruction. The Latin studies certificate curriculum will be highly useful for those interested in teaching Latin, because it will provide a much deeper immersion in Latin language and literature than what has so far been usual for students seeking careers as Latin teachers, and will ensure that all who complete it acquire not merely reading skills, but also considerable active command of the language.

Leadership for Deeper Learning Certificate

The graduate certificate in Leadership for Deeper Learning examines the systemic changes to teaching and learning within schools. The courses within the certificate (EDL 662 Leading for Next Generation Learning, EDL 664 Assessment Leadership, ELS 620 Leading Action Research and Inquiry 1) focus on inquiry learning, project-based learning, performance assessments, competency learning models, and a variety of other components of systems of teaching and learning that provide deeper, more equitable learning opportunities for students in educational organizations. This certificate is one of four offered by the Department of Educational Leadership Studies.

Lean Systems Certificate

Lean Systems is a proven technique for reducing waste, improving productivity, and increasing the bottom line found to be effective across many industries, businesses, and organizations. Companies spend a lot of money educating their current employees and place a high premium on new graduates who have already acquired knowledge in the field. The graduate certificate in lean systems is based on the Toyota production system (TPS) and requires 12 credit hours of coursework.

Liberal Studies Certificate

There is a persistent and growing demand among employers for workplace professionals who possess strong communication, research, and critical thinking skills beyond those attained as undergraduates. These skills can be difficult for people to continue developing after completion of the initial Bachelor's degree.

Drawing on the Liberal Arts disciplines, the Online Graduate Certificate in Liberal Studies offers students the possibility to develop proficiencies from among a cluster of significant employment-related skills, such as critical and complex thinking, clear writing and communication, effective collaboration, research, cultural literacy, and awareness and sensitivity to the context and historical attributes of key issues in today's society.

The certificate's flexible curriculum allows students to easily tailor highly individualized programs of study to their own pace. The certificate will augment students' career and professional opportunities by helping them to become better decision makers; more effective strategists and thinkers; better leaders and team members; more socially and historically aware citizens; and more adept writers and communicators.

The Graduate Certificate requires 12 credit hours of coursework including one core course (PHI 522 Advanced Critical Thinking) and three additional courses from the list of approved courses (students must take courses from at least two of the five fields of inquiry).

Manufacturing Systems Certificate

Competitive markets require manufacturing organizations to be increasingly efficient, innovative and sustainable. Highly skilled manufacturing engineers with advanced technical knowledge and capabilities are essential to the success of these organizations. The Manufacturing Systems certificate program is designed to develop manufacturing engineers with the knowledge, skills and attitude required for value creation by designing, manufacturing and managing more sustainable products, processes and systems. The certificate is structured as a four course program with all courses available entirely online. It provides graduate level qualifications for engineers and manufacturing professionals in industry who are interested in expanding their qualifications with less of a time investment than is required for a full master's degree.

Military Behavioral Health Certificate

The graduate certificate in Military Behavioral Health curriculum will benefit students by enhancing their understanding and appreciation of cultural and environmental factors that affect individual and family functioning for military and veteran populations. They will gain skills in assessment, intervention, and prevention of psychosocial problems typically encountered by this population. In order to earn the graduate certificate students must complete a total of 12 credit hours. Students will complete three designated 3 credit hour courses, SW 530 responding to military and veteran populations {appendix I}, and SW 738 independent work with military populations (appendix II), FAM 759 special topics: working with military families. Eligibility is limited to students who hold, or are pursuing, a graduate degree in the counseling professions. These include social work, family sciences, clinical psychology, and educational, school and counseling psychology. Graduate and post-graduates from other human services disciplines may petition the advisory board for acceptance to the certificate. Exceptions will be evaluated by the advisory board on a

case-by-case basis. The board will consider exceptions based on assessment of the applicant's academic and vocational history. All applicants must apply to the certificate director for admission.

Musculoskeletal Injury Management Certificate

The Graduate Certificate in Musculoskeletal Injury Management is designed to provide advanced education and clinical experience for credentialed clinicians (i.e. Athletic Trainers, Physical Therapists, Occupational Therapists, Physicians, Physician Assistants, etc.) that manage injuries in physically active populations. Graduates from our program will emerge as advanced clinicians with post-professional knowledge and clinical experience that will be highly competitive for positions providing healthcare services in a variety of employment settings (i.e. traditional athletics, physician's clinic, out-patient rehabilitation setting, occupational setting). Students will receive focused coursework that provides advanced didactic education related to mechanisms of musculoskeletal injury and current evidence for clinical management of these conditions. We will couple this with hands-on laboratory learning that will advance the learners knowledge, skills and abilities related to evaluation and treatment of musculoskeletal injuries. Students enrolled in this certificate program who hold the athletic training credential may be eligible for an Athletic Training Fellowship. These Fellowships will provide students the opportunity to work as an Athletic Trainer with one of our clinical partners to provide athletic training services in a variety of settings, including collegiate, high school and middle school athletics.

Music Theory Pedagogy Certificate

The graduate certificate in Music Theory pedagogy is intended primarily for DMA. (Doctor of Musical Arts students who wish to gain experience and expertise in theory pedagogy in order to strengthen their background for increased marketability in higher education. Students desiring admission into this certificate curriculum will be interviewed by a committee consisting of members of the theory faculty and a music faculty member outside of theory. The interview will include an appraisal of the student's keyboard proficiency, sight-singing and aural skills, and understanding of theoretical concepts. The student's scores on graduate entrance exams in music theory will also be assessed. It is assumed that any student granted admission into the certificate curriculum would have been accepted as a student in the Graduate School.

Next Generation Teaching and Learning Certificate

Next Generation Teaching and Learning incorporates 21st century skills (collaboration, communication, technology, critical thinking, problem solving and performances of learning), is a current direction in educational endeavors in a variety of learning environments from k-12 classrooms and teacher professional development to museums and after-school programs. This certificate combines required next generation foundations and assessment components with specialty electives, representative of cutting-edge innovative pedagogy. The certificate comprises 12 hours of graduate coursework as follows: nine (9) credit hours of required course work comprised of three (3) hours of the next generation learning foundations course, three (3) hours of an internship choice, three (3) hours of a course on data-driven decision making and a final three (3) chosen from specialty course options. A key purpose of the certificate work is a demonstration of research to practice knowledge and skills, through implementation and assessment of next generation pedagogy in a field setting.

Non-Profit Management Certificate

The Graduate Certificate in Nonprofit Management is designed to provide skills to support graduate students and professionals in leading, directing, and managing organizations in the nonprofit sector. The certificate benefits students seeking careers in the nonprofit sector, professionals currently working in the nonprofit

sector, and government employees transitioning to the nonprofit sector. The certificate includes 12 credit hours comprised of three mandatory classes and one elective focused on unique aspects of the nonprofit sector including management, finance, and organizational operations. The graduate certificate can be obtained as a stand-alone program but can also be integrated with other degrees offered by the Martin School of Public Policy and Administration. The certificate also offers flexibility as students may complete the program partially or fully online. Two of the required courses are offered in the traditional, face-to-face modality each fall, so students can choose to take those sections or the online sections. The spring courses are only offered online. For more information visit <https://martin.uky.edu/>

Orff-Schulwerk Certificate

Orff Schulwerk is the music approach created by composers Carl Orff and Gunild Keetman. The Schulwerk is a way to teach and learn music using poems, rhymes, games, songs, and dances as basic materials. The University of Kentucky offers Schulwerk teacher training courses, mostly in the summers, taught by Orff experts. Training is given at levels 1, 2, 3 and advanced master's courses in different topics such as curriculum design, and composition. The graduate certificate in Orff Schulwerk is a twelve-hour curriculum in four components:

1. Orff teacher training level one (MUS 560/561, 2-4 credits).
2. Orff teacher training level two (MUS 560/561, 2-4 credits).
3. Orff teacher training level three (MUS 560/561 2-4 credits)
 - Or Orff master courses (prerequisite: Orff teacher training level 2)
4. Certificate project (MUS 767 1-3 credits) (prerequisite: Orff teacher training level 2)

Each student must take all four of the components, each at two credits minimum, for a total of 12 credit hours. Each component is offered at variable credits. All credits earned in this certificate may be applicable towards the Master of Music in Music Education degree (M.M.M.E.) or the rank i in music education program. Admission requirements are the same as those in effect for post-baccalaureate status, and approval of the certificate director. The certificate is awarded upon completion of the certificate curriculum within five years, and with a minimum of 3.0 GPA.

Orofacial Pain Certificate

The program is a 42-credit hour Graduate Certificate in Orofacial Pain designed to meet the needs of the dental practitioner interested in practicing the management of orofacial pain. The dental profession has recently recognized the field of orofacial pain as a dental specialty that requires clinicians to gain specialty status in orofacial pain. The two-year certificate program will meet the criteria for board eligibility for orofacial pain specialty. This certificate is designed as a complement to the MS in Orofacial Pain, where the difference the proposed certificate program and the already established MS Dentistry's concentration in Orofacial Pain is a research component.

Physiology Teaching Certificate

The graduate certificate in Physiology Teaching provides a mechanism for students to document their competency in the basic skills necessary to teach a comprehensive physiology course. The certificate will be accessible to participants enrolled in a wide range of biomedical disciplines, but it will be especially valuable to medical science graduate students that anticipate a career in academic physiology. This 15-hour certificate is significant in that many doctoral programs in the medical sciences emphasize preparation for a research-oriented career but do very little formal instruction related to education and teaching. Our department has historically placed a high emphasis on the training of graduate students for both research and teaching careers. This certificate will recognize and document that emphasis for the students that choose to complete the certificate requirements. As research in physiology becomes more specialized,

utilizing molecular and cellular approaches, there is a very real and distinct demand for physiology instructors that have experience in all levels of physiology teaching, especially systems physiology.

Population Health Certificate

The Graduate Certificate in Population Health packages the core courses of the Master of Public Health (MPH) degree into a concentrated learning experience with four (4) classes for a total of 12 credit hours. Now available 100% online, this certificate program provides a valuable credential for those seeking to join the public health workforce or expand current knowledge and skills. It's also the perfect introduction to further study in Public Health, as all credits can be applied to the 42-hour MPH program. Currently enrolled graduate students or those applying to a graduate program and post-baccalaureate graduate students may apply to the Graduate Certificate in Population Health.

Positive Youth Development Certificate

The graduate certificate in Positive Youth Development (PYD) is designed to provide students with a background in PYD frameworks and how these can be used to create intentional learning experiences in non-formal educational situations. This 12 credit-hour certificate includes 9 hours of required courses and 3 hours in an elective selected by the student. Completion of this program provides basic competency in the science of PYD at the graduate level along with documentation of their abilities. The certificate is accessible to participants from a wide range of disciplines and backgrounds and is available fully online. The certificate will provide students with the knowledge base they need to demonstrate an understanding and commitment to PYD principles and their intentional inclusion in non-formal learning experiences.

Power and Energy Certificate

The purpose of the proposed graduate certificate in Power and Energy is to provide students with state of the art knowledge in power and energy areas and produce well trained graduates in Power and Energy areas. It is anticipated that there will be a substantial shortage of power and energy professionals in the national labor force in the near future. To help train more power and energy engineers, the department of energy (DOE) issued a call for proposals on power and energy workforce training in December 2009. The college of engineering submitted a proposal and was awarded a grant to create a Power and Energy Institute of Kentucky (PEIK) to train the next generation of power and energy professionals. As part of the proposal, we have proposed to offer a graduate certificate in power and energy. In close collaboration with industry, the institute will combine existing UK College of Engineering power engineering courses with newly created courses to provide students with an attractive, clearly-marked pathway into the power engineering workforce.

Power Systems Certificate

The online Graduate Certificate in Power Systems is designed to provide students with the core knowledge and latest advancements in power systems analysis, modeling, operation, control, optimization, and integration of renewable energies, and produce well trained graduates in this specialty. Students will learn the theory in various aspects of power systems and master the tools and techniques for planning and operating power systems and solving real-world problems.

The credits earned through this certificate will count towards the MS or PhD degree in electrical engineering if the students decide to continue their graduate studies at UK.

Professional and Technical Writing Certificate

The Graduate Certificate in Professional and Technical Writing provides immediate workplace skills and knowledge in organizational writing, manual writing, policy writing, technical writing, grant writing, and technical legal writing. It is designed for working professionals who are interested in continuing their education in professional and technical writing. All courses are online, and the certificate can be completed in a flexible and timely manner.

Public Financial Management Certificate

The Martin School of Public Policy and Administration offers a fully online Graduate Certificate program in Public Financial Management. This program is attractive to students desiring an introduction of class offerings in public financial management. The online 12 credit hour Graduate Certificate program in Public Financial Management fills an additional niche as an alternative for those who are not interested in seeking a full master's program in that area. Students may apply the coursework towards the corresponding Master's in Public Financial Management upon completing the graduate certificate. The graduate certificate includes 4 mandatory courses (PA 631, PA 632, PA 625, PA 627) focused on public financial management, public funds management, and governmental accounting and auditing. The courses are offered annually, allowing students to complete the certificate in two semesters. The Graduate Certificate in Public Financial Management is designed to meet the current and expanding national demand for well-trained financial managers for public and non-profit organizations. The curriculum can also be a desirable means of professional development training for employees in the public sector. The Graduate Certificate in Public Financial Management is approved by the Kentucky Department of Education to qualify for mandatory continuing education credits for school finance/budget officers. For more information about this program visit <https://martin.uky.edu/>.

Research Methods in Education Certificate

The RMinE Graduate Certificate provides students with the ability to specialize in education research methods that can be applied to a host of disciplines, e.g., social sciences, physical sciences, K-12 instruction/administration, and business. The certificate combines 12 hours of core courses and 3 hours of elective coursework for a total of 15 hours. Students will receive a foundation in a range of approaches to research, including quantitative methods, assessment, evaluation, and measurement, which can be applied at the introductory level to their specific fields. The program is open to all University of Kentucky students admitted to the Graduate School who want to demonstrate they have completed rigorous coursework in research methods.

Risk Sciences Certificate

The graduate certificate in Risk Sciences provides the foundational understanding of risk and crisis communication and the opportunity to develop practical application of this knowledge. Organizations and entities of various sizes are becoming keenly aware of the need for effective communication in risk and crisis contexts. This certificate will prepare students to meet this need. The certificate will require twelve credit hours, including risk communication, crisis communication, training and consulting, and knowledge management. Research implications (both theoretical and practical), lessons learned, and new theories of community risk communication will be included in the curriculum.

School Social Work Certificate

The graduate certificate in School Social Work is designed to prepare social workers to practice school social work, a specialized field of practice. The program also meets the Kentucky education professional standards board mandated requirements for school social work certification. The certificate program is available to: (1) UK degree seeking graduate students in the master of social work program, and (2) post-baccalaureate (non-degree) students who already hold the MSW degree from a CWSE accredited social work program. The minimum credits required are 17 for the MSW program students and 9 for post-baccalaureate students who hold the MSW. Applications for admission are evaluated, and students' progress is monitored and approved by a committee made up of professors from the Colleges of Social Work and Education.

School Technology Leadership Certificate

The graduate certificate in School Technology Leadership is conceptually framed around the international society for technology in Education's National Educational Technology Standards for Administrators (NETS-A). Students who engage in this graduate certificate will typically be educational administrators at all levels who want to learn how to support technology-suffused education and lead digital-age schools. This certification is focused on creating skills and dispositions for individuals committed to making systemic and lasting changes in schools, districts, states, and nations.

Senior Diversity Officer Leadership Certificate

This is a nine-hour, fully online Graduate Certificate in Senior Diversity Officer Leadership prepares students for high-level administrative positions in diversity, equity, and inclusiveness leadership in higher education settings. Colleges and universities across the nation are seeking leaders to serve as change agents, bringing innovation, creativity, and high-level strategic thinking to diversity, equity, and inclusiveness roles on their campuses.

This graduate certificate is designed to inspire and equip students for innovative, high-level strategic thinking in diversity, equity, and inclusion roles in higher education and related settings.

Social Theory Certificate

This certificate offers students systematic multidisciplinary training in social theory. It augments, and is pursued concurrently with, the regular MA and PhD Degree programs of participating departments. In total, the certificate requires ten hours of course work, can be pursued in tandem with regular degree programs, and is open to all graduate students at the University of Kentucky.

Sport, Fitness, and Recreation Management Certificate

This 12-credit graduate certificate in Sport, Fitness, and Recreation Management is designed for current professionals to increase their understanding of leadership skills and principles. The graduate certificate will offer students the opportunity to be a part of the University of Kentucky tradition, while also advancing a knowledge base in leadership principles including but not limited to: legal issues, policy & governance, and historical foundations of athletics.

Stream and Watershed Science Certificate

The Stream and Watershed Science graduate certificate provides students with an understanding of the complex physical, biological and social systems involved in stream and watershed related issues. The

certificate has an interdisciplinary focus and is administered by faculty in Biosystems and Agricultural Engineering with an advisory committee consisting of faculty representatives from the College of Agriculture, Food and Environment, College of Arts and Sciences, and College of Engineering; the Center for Applied Energy Research; the Gatton College of Business and Economics; and the Graduate School. Students may earn the certificate while making normal progress towards attainment of an MS, MA or PhD degree or while enrolled in post-baccalaureate status.

Structural Engineering Certificate

Expand and deepen your expertise in structural engineering analysis and design. The online Graduate Certificate in Structural Engineering is designed to provide all engineering students with core knowledge in prestressed concrete, steel structures and matrix structural analysis. The courses will be beneficial to current engineering students and practicing engineers. The Certificate offers three (3) courses, 3-credit hours each, to provide technical skills required to develop more sustainable and resilient infrastructure. The courses can be applied toward graduate degrees in civil or other engineering fields. Additionally, each course can provide significant professional development hours that potentially satisfy a state's Engineering professional licensing requirements.

Substance Use Disorders Certificate

The Substance Use Disorders Certificate is a 9 credit hour and 100% online graduate certificate which is taught by experts with years of diverse social work experience. The Substance Use Disorders certificate will deepen your understanding and ability to provide evidence-informed assessment and effective intervention related to substance misuse.

Students will also gain valuable hands-on experience through an advanced practicum designed to improve your assessment and intervention skills related to substance misuse.

Teaching English as a Second Language Certificate

The objectives of the 12-credit hour graduate certificate are three-fold:

1. Prepare teachers skilled in supporting the development of English language learners
2. Provide candidates with a rigorous introduction to the core disciplines in English language teaching: linguistics, language acquisition and pedagogy
3. Provide candidates with field-based experiences and in-class teaching opportunities in order to develop practical knowledge and skills of second language classroom teaching practices.

Teaching in Culturally and Linguistically Diverse Classrooms Certificate

The graduate certificate in Teaching in Culturally and Linguistically Diverse Classrooms addresses increasing demand to prepare teachers to better address the learning needs of K-12 classrooms with increasing cultural and linguistic diversity among students. Certificate coursework takes a comprehensive approach to supporting English Learners and other historically under-served populations by addressing aspects of cultural and linguistic diversity across the curriculum within a regular classroom context. Coursework supports students in developing a knowledge base, planning, and application of strategies related to language and literacy development, second-language acquisition, classroom relationships, family collaboration, assessment, instruction, discourse, and socio-political consciousness.

Telehealth Certificate

This one-year 9-credit online interprofessional certificate methodically prepares you to be a leader in the development, implementation, and evaluation of telehealth models. Course content will cover information relevant to telehealth use across generations and associated contexts of care (e.g., medical, schools, home). Upon completion of the certificate, you will be able to:

1. Implement telehealth in a variety of settings with diverse patient populations across the lifespan in accordance with professional ethics and state and federal rules and regulations.
2. Train support personnel to assist the healthcare provider and patient during a telehealth encounter.
3. Develop, market, and evaluate a telehealth program considering multiple levels, including consumer, provider, organization, community, and policy.
4. Use interprofessional practices within a telehealth model.

Tobacco Treatment Specialist Certificate

The Tobacco Treatment Specialist Graduate Certificate provides extensive knowledge and counseling skills training for treating tobacco dependence, the number one cause of preventable death and disease. The certificate content is divided into three 3-credit hour courses (NUR 621, 622 and 623) and is valuable to persons working in healthcare, including behavioral health, health promotion and prevention, and public health. Participants will critically review the literature on tobacco products and use, health effects, treatment, prevention, and policy. The certificate is an extension of the accredited BREATHE Tobacco Treatment Specialist Training. Successful completion of this program will provide participants with a certificate that can be used as eligibility to apply for a national certificate in tobacco treatment practice.

Vocal Pedagogy Certificate

In order to increase marketability in higher education and be prepared to meet the challenges of teaching voice in the 21st century, the graduate certificate in Vocal Pedagogy is intended primarily for students pursuing a Master of Music (MM) and Doctor of Musical Arts (DMA) degrees in voice and choral conducting who wish to gain more experience and expertise in the science and art of teaching. The proposed certificate could also be pursued by: 1) college and high school choral conductors interested in vocal health and production; and 2) graduate students in communication disorders in the College of Health Science looking to increase their knowledge and understanding of the singing voice. Many new openings in higher education look favorably toward those candidates with secondary areas of expertise and especially pedagogical training. This certificate could be pursued concurrently with the regular MM and DMS degree program of the school of music. The certificate requires the completion of 15 credit hours.

Master of Applied Statistics

Applied Statistics, MAS

The Department of Statistics offers programs of study leading to the degrees of Master of Science (Plan A or B available), Doctor of Philosophy, and Master of Applied Statistics (Online). The M.S. degree is professionally oriented for the student who plans a career in government, business or industry and is preparatory for the Ph.D. The Ph.D. program offers a broad training in both statistical theory and methods while affording options to suit the student's interests. The statistics Ph.D. is well-suited for academic, business, government and industrial positions. In addition to formal course work and research training, the advanced student has opportunities to gain valuable practical experience by participating in consulting

activities under faculty supervision. Master of Applied Statistics is an innovative online professional graduate degree which is designed to train professional, practice-oriented statisticians who have both data analytic and computing skills.

Both, the M.S. and the Ph.D. program offer a Mathematical Statistics track, as well as a Biostatistics track. The latter tracks are designed for students who envision a future at the interface of Statistics and the Life Sciences.

Course work is available in areas associated with statistics such as biological modeling, probability, inference, experimental design and analysis, computational statistics, nonparametric methods, Bayesian analysis, mixed modeling, multivariate analysis, survival analysis, clinical trials, and many other selected topics of the student's choice.

The University of Kentucky is represented on the Committee on Statistics of the Southern Regional Education Board.

Admission Requirements

Students with an undergraduate major in any of the mathematical, physical, biological, social or applied sciences are encouraged to apply.

The minimum GRE and GPA admissions requirements for the M.S. and Ph.D. programs in Statistics are the same as for the Graduate School. However, the number of admissions is limited and admissions decisions are made on a competitive basis. All M.S. applicants must have successfully completed a three or four semester sequence in calculus and a course in linear algebra and have good communication skills. In addition, all Ph.D. applicants must have mastered the equivalent of MA 471G. All Master of Applied Statistics applicants must have completed two semesters of calculus and a course in statistical methodology. Students wishing to apply for teaching assistantships and/or fellowships must submit three letters of recommendation. Applicants wishing to be admitted directly to the Ph.D. program must have an M.S. in Statistics and the permission of the Director of Graduate Studies.

Please see the departmental website for up-to-date information and answers to frequently asked questions about the admissions process.

Degree Requirments

The Master of Applied Statistics is a thirty hour, online, Plan B, professional graduate degree that can be completed in a summer and two consecutive semesters or on a part-time basis. The program is unique in that it uses data visualization and statistical computing to teach fundamental concepts in statistical inference to students with a career-oriented focus on data analysis.

Core Courses (Required for all students)

- STA 645 COMPUTATIONAL THEORY AND DATA VISUALIZATION (3)
- STA 646 FOUNDATIONS OF PROBABILITY AND INFERENCE (4)
- STA 647 STATISTICAL COMPUTING WITH SAS (2)
- STA 648 REGRESSION METHODS (4)
- STA 649 DESIGN OF EXPERIMENTS (4)

The electives can be selected from the menu of courses listed below.

- STA 650 APPLIED MULTIVARIATE STATISTICS (3)

- STA 651 ADVANCED PROGRAMMING WITH R (1)
- STA 652 ADVANCED STATISTICAL MODELING (3)
- STA 654 APPLIED BAYESIAN INFERENCE (3)
- STA 656 STATISTICAL QUALITY CONTROL (3)
- STA 659 ADVANCED STATISTICAL METHODS (3) (subtitle required)

Master of Architecture

Architecture, MAR

The Master of Architecture is a professional graduate degree, accredited by the National Architecture Accrediting Board (NAAB). This two-year degree comprises the second part of a sequential "4+2" curriculum, in which a student obtains a four-year (pre-professional) Bachelor of Arts in Architecture and concludes with the two-year, professional Master of Architecture degree. Students who receive this degree are eligible to seek professional registration as an architect.

The "3+ year track" is available to students without the pre-professional bachelor's degree or background in design. In addition to Master of Architecture core requirements, students in the 3+ year track take accelerated courses and courses determined by the DGS on a case-by-case basis that achieve design proficiency.

Admission Requirements

Applicants for admission to the Master of Architecture degree program must hold a Bachelor of Arts in Architecture or a Bachelor of Architecture degree from a NAAB-accredited institution. Admission to the program is contingent on acceptance by the Graduate School at the University of Kentucky. Applicants are required to submit a portfolio, a personal essay on graduate expectations, transcripts, and GRE scores.

Students who do not hold a Bachelor of Arts in Architecture or Bachelor of Architecture may apply to the 3+ year track. Applicants are required to submit a portfolio, a personal essay on graduate expectations, transcripts, and GRE scores, and must submit three letters of recommendation.

Admission to the program is based on a review of the submitted materials.

Degree Requirements

To obtain the Master of Architecture degree, students must complete 48 credit hours of graduate work as described in the curriculum below. Every student must complete a Master's Project. Requirements for this degree are governed by and satisfy the accreditation requirements of the National Architecture Accrediting Board.

Credit hours for students in the 3+ year track will vary by student.

MASTER OF ARCHITECTURE - 2 Year Track

Total Hours Architecture Core requirements	33
Master's Project Research	3
Master's Project	6
Electives	6
Total Graduate	48

Please find more information and a curriculum plan on the College of Design website at: <http://design.uky.edu/architecture-degrees/>

MASTER OF ARCHITECTURE - 3+ Year Track

Total Hours Architecture Core requirements	33
3+ Year Track requirements (typical/varies by student background)	30
Master's Project Research	3
Master's Project	6
Electives	6
Total Graduate (will vary based on 3+ courses taken)	75

Please find more information and a curriculum plan on the College of Design website at: <http://design.uky.edu/architecture-degrees/>

Master of Arts

Applied Anthropology, MA

Since its inception in the 1960s, the graduate program has been nationally recognized as a leader in applied anthropology. We define applied anthropology as research with practical application and impact, but anchored in a rigorous foundation in anthropological theory and method, whether from cultural, biocultural, or medical anthropological, or bioarchaeological, historical archaeological, or archaeological perspectives, for example. With grounding in core anthropological and archaeological theory and method, we train our students to be skilled researchers who can traverse both academic and non-academic settings, bringing to their research a sound intellectual base, and skills for application and practice.

The M.A. degree in Applied Anthropology at UK is designed to train students to apply the theories, methods, and practices of anthropology to solve real world problems with community and organizational partners, and to prepare students for careers in different domains of application or for further graduate study. The program draws on the department's considerable research strengths in a variety of areas (see website for more information), and puts strong emphasis on training in theory, application, and proficiency in a broad range of current research methods and technical skills. The M.A. in Applied Anthropology program has three Areas of Concentration - Archaeology, Cultural Anthropology and Medical Anthropology. Students must declare their area of concentration in their program application.

Admissions Requirements

If you are entering the Anthropology M.A. program without previous training in anthropology, you might want to read Perspectives: An Open Invitation to Cultural Anthropology (a free online textbook available at <http://perspectives.americananthro.org/>) and/or a text recommended by your advisor (e.g., Charles Orser's 2016 text Historical Archaeology) prior to your first semester.

Degree Requirements

The degree completion requires 30 credits of coursework. The M.A. degree requires a written report based on the practicum. The report is written with the guidance of a committee of three faculty members. The final examination for the Master's degree is an oral presentation of the practicum project to the department. There is no foreign language requirement for the Master's degree in applied anthropology.

Archaeology Concentration:

The Archaeology concentration is aimed at preparing students for careers in applied archaeological anthropology, including cultural resource management, museum and heritage studies, and public archaeology.

Students are expected to have archaeological field school training before starting graduate school. UKY offers or recommends an archaeological field school each summer, and students who have not participated in a field school will be encouraged to seek mentored field experience through or beyond the program.

Students interested in careers in Cultural Resource Management will be encouraged to enroll in ANT 545 and electives in Historic Preservation, and program revisions are underway to further accommodate CRM career preparation.

Plan of Study:

Course	When taken	Cr Hrs
ANT 525 APPLIED ANTHROPOLOGY	1st semester	3

Course	When taken	Cr Hrs
ANT 650 THEORY IN ARCHAEOLOGY	1st/2nd semester	3
ANT 651 ARCHAEOLOGICAL DATA ANALYSIS	2nd semester	3
3 courses in Archaeology (1 can be allied profession)	1st - 3rd semester	9
2 courses as approved by advisor/committee (may include ANT 790)	1st - 3rd semester	6
ANT 760 - 6 credit hours practicum in applied anthropology	1st - 3rd semester	6
Total		30

Cultural Anthropology Concentration:

The Cultural Anthropology concentration is designed to prepare students for careers in various domains of application, including economic development, rural and urban development, business anthropology, public anthropology, human services, education, consulting and research, program monitoring and evaluation, and work with corporations, governmental and non-governmental organizations.

Plan of Study:

Course	When taken	Cr Hrs
ANT 525 APPLIED ANTHROPOLOGY	1st semester	3
ANT 610 HISTORY OF THEORY IN ANTHROPOLOGY	1st/2nd semester	3
ANT 660 ETHNOGRAPHIC RESEARCH	2nd semester	3
3 courses in Cultural Anthropology (1 can be allied profession)	1st - 3rd semester	9
2 courses as approved by advisor/committee (may include ANT 790)	1st - 3rd semester	6

Course	When taken	Cr Hrs
ANT 760 - 6 credit hours practicum in applied anthropology	1st - 3rd semester	6
Total		30

Medical Anthropology Concentration:

The Medical Anthropology concentration is based on fundamental concerns with the study of social forces and health inequalities, and various programmatic endeavors and community-based responses to them. Participants in the program will receive training in ethnographic methods, community-based participatory research and/or program evaluation along with instruction in anthropological perspectives on health and the intersection of anthropology with public health.

Plan of Study:

Course	When taken	Cr Hrs
ANT 525 APPLIED ANTHROPOLOGY	1st semester	3
ANT 610 HISTORY OF THEORY IN ANTHROPOLOGY	1st/2nd semester	3
ANT 660 ETHNOGRAPHIC RESEARCH	2nd semester	3
3 courses in Medical Anthropology (1 can be allied profession)	1st - 3rd semester	9
2 courses as approved by advisor/committee (may include ANT 790)	1st - 3rd semester	6
ANT 760 - 6 credit hours practicum in applied anthropology	1st - 3rd semester	6
Total		30

Requirements for all M.A. Students:

Practicum:

All M.A. students must enroll in 6 credit hours of ANT 760 (Practicum in Applied Anthropology). The practicum is expected to be the equivalent of a full-time effort for at least one academic semester.

Departmental Presentation:

All M.A. students are required to write a report and to deliver a presentation to the department as a condition of graduation.

Applied Environmental and Sustainability Studies, MA

The online Master of Arts in Applied Environmental and Sustainability Studies prepares graduates for positions in the corporate, government, and non-governmental worlds as a sustainability manager, corporate sustainability specialist, or one of many other fast growing environmental and sustainability professions.

Students take a total of 30 credit-hours of graduate coursework (24 credits of coursework and 6 credits of either capstone research or internship). Coursework consists of three core courses (total of 9 credit hours), two skills courses (total of 6 credit hours), and three elective courses (total of 9 credit hours) to expand their skills, insights and engagement with Environmental and Sustainability Studies. This MA degree only offers non-thesis, plan B options: Upon completing these 24 credit-hours, students take two courses for three credits each to prepare and implement their final Master's research project under the supervision of faculty members. The MA also offers the alternate plan B option of completing six credit hours of internship work under supervision of faculty members. All MA students will have a final oral examination.

Admission Requirements

- CV or resume
- Statement of Purpose (2-3 pages)
- Writing Sample (optional)
- Undergraduate transcript
- A non-refundable \$65 application fee (\$75 for international applicants)
- TOEFL or IELTS score (international applicants only). Minimum scores are listed on the graduate school's admission page.
- GRE or GMAT scores are NOT required for admission to this program.

Degree Requirements

Core Courses (9 Credit Hours)

- ENS 601 ENVIRONMENT AND SUSTAINABILITY: ISSUES AND IDEAS (3 credit hours)
- ENS 602 ENVIRONMENT AND SUSTAINABILITY POLICY AND GOVERNANCE (3 credit hours)
- ENS 603 COMMUNICATING ENVIRONMENTAL AND SUSTAINABILITY STUDIES (3 credit hours)

Skills Courses (6 Credit Hours)

Students choose a total of 6 credit hours from two of the skills courses listed below.

- LA 556 CONTEMPORARY GEOSPATIAL APPLICATIONS FOR LAND ANALYSIS / NRE 556 CONTEMPORARY GEOSPATIAL APPLICATIONS FOR LAND ANALYSIS (3 credit hours)
- MAP 671 INTRODUCTION TO NEW MAPPING (3 credit hours)
- STA 570 BASIC STATISTICAL ANALYSIS (3 credit hours)
- STA 674 REGRESSION ANALYSIS AND DESIGN OF EXPERIMENTS (3 credit hours)
- STA 677 APPLIED MULTIVARIATE METHODS (3 credit hours)

Capstone/Internship (6 Credit Hours)

Students must complete one of two options to satisfy the non-thesis requirement for the Master's in Applied Environmental and Sustainability Studies. All students will be required to complete a one-hour oral exam.

Plan B Option #1 Internship

Complete 6 credit hours of internship coursework:

- ENS 697 INTERNSHIP IN APPLIED ENVIRONMENTAL AND SUSTAINABILITY STUDIES I (3 credit hours)
- ENS 698 INTERNSHIP IN APPLIED ENVIRONMENTAL AND SUSTAINABILITY STUDIES II (3 credit hours)

Plan B Option #2 Capstone

Complete 6 credit hours through a capstone research project and report

- ENS 695 RESEARCH IN APPLIED ENVIRONMENTAL AND SUSTAINABILITY STUDIES (3 credit hours)
- ENS 696 REPORTING RESEARCH IN APPLIED ENVIRONMENTAL AND SUSTAINABILITY STUDIES (3 credit hours)

Elective Courses (9 Credit Hours)

Students must take an additional 9 credit hours from the approved list of courses. Other courses at the 600-level and above that relate to environmental and sustainability studies may be used to satisfy this requirement with the permission of the program director. Students may only count 6 credit hours of ENS 605 (under different subtitles) or ENS 699 (up to 3 credit hours) towards this requirement.

Art Education, MA

The Teacher Leadership Program in Visual Arts Education is a planned two-year experience, including two summers, designed to prepare currently certified art educators to exert independent leadership for improving the performance of P12 schools in the areas of enhanced achievement and increased college and career readiness.

In addition to teacher leadership coursework, each candidate will pursue a selected area of specialization of at least twelve credit hours designed not only to increase his/her content expertise, but also to build the candidate's portfolio of graduate content courses which can lead, under SACS rules, to approval for teaching dual credit courses in the public schools (in collaboration with a local college or university).

Along with theory and practice, art education provides students with a strong foundation in art studio and art history. The Master of Arts (M.A.) in Art Education provides in-service training, professional development, and consultation services to the schools of Fayette County and the Commonwealth of Kentucky.

Admission Requirements

Candidates admitted to the graduate program in Art Education are expected to have completed course work equivalent to an undergraduate major in Art Education (in no case less than 18 hours in Art Education and Education, 12 hours in Art History, and 18 hours in Art Studio). Prospective candidates who do not meet these requirements should seek the counsel of the Program Faculty Committee to make up deficits prior to acceptance into the program. In addition, candidates must submit for review by the Program Faculty Committee, a portfolio of recent artworks and professional writing and other evidence of professional attainment (or a 300-500-word statement of interest in advance studies in Art Education).

Degree Requirements

Requirement To Be Added

Art History, MA

The Master of Arts in Art History prepares students with the course work, language skills, and research experience needed for further graduate study or work in arts organizations or educational settings. The curriculum is structured to provide both breadth and depth of inquiry through a variety of approaches to art history and, more broadly, visual studies. We recommend that courses be selected in consultation with the graduate advisor to take full advantage of the multiple approaches, expertise, and insights of the faculty.

Admission Requirements

Applicants from a wide variety of educational backgrounds may earn a M.A. degree in Art History. However, those without an undergraduate art history major should consult with the art history & visual studies graduate advisor before applying. Depending on one's prior preparation, some students may be advised to enroll as a post-baccalaureate to take selected preparatory courses that may count toward the graduate degree requirements if the student is later admitted to the M.A. program (as outlined in The Graduate School's general regulations). Requirements otherwise conform to UK general requirements for Graduate School admission.

Application Procedures

The Graduate School, which is the administrative unit for all graduate students, and the Art History & Visual Studies graduate program, which is responsible for the academic curriculum, require different application materials. Application materials for admission to the Graduate School include:

- Application form
- Copies of transcripts from all higher education institutions previously attended, which should be uploaded on the appropriate location of the online application. Domestic students are to self-report GPAs for each institution attended. (Tip: Convert transcripts on colored paper to white with black ink so as not to exceed the megabyte limitation on the online form.)
- GRE scores that you self-report in the appropriate location on the online application. (At the point of acceptance into the program, official GRE scores must be requested and sent directly from the Educational Testing Service (ETS) to the University of Kentucky; the Institution Code for the GRE for UK Graduate School is R1837).
- TOEFL scores and/or IELTS scores if an international student.
- Application fee.

Application materials for the Art History graduate program are also to be submitted online on the graduate admissions application and include:

- Brief résumé
- Personal statement that explains your interest in art history graduate study, experience, and plans.
- Sample of research writing, such as an undergraduate research paper
- Contact information in the form of email addresses for two recommenders who will be notified to submit their recommendations electronically to the online system.

Application Deadlines January 1 - for all applicants, including those requesting a teaching assistantship. Students who want an assistantship should send a separate letter that indicates their interest in being considered either by e-mail attachment or in hard-copy form to the Graduate Advisor in Art History & Visual Studies, School of Art & Visual Studies, 236 Bolivar Street, University of Kentucky, Lexington, KY 40506-0090

Degree Requirements

In addition to the provisions below, either option also conforms to general degree requirements for all Master of Arts Programs.

Plan A - Thesis Option

Candidates who plan to continue study at the doctoral level should select Plan A. This option emphasizes art historical research, problem solving, and communication skills. Specific requirements include:

1. Minimum of 30 credit hours of graduate course work.*
2. Foreign language reading competency in one foreign language (German usually recommended).**
3. Satisfactory completion and oral defense of a thesis.

Plan B - Non-Thesis

Option Plan B emphasizes course work to broaden the candidate's foundation in art historical knowledge, theory, and methods. Candidates who plan careers in visual arts fields that do not require a Ph.D. - professional placements in galleries, museums, art organizations, arts administration, etc. - may want to select this option. Specific requirements include:

1. Minimum of 36 credit hours of graduate course work.*
2. Foreign language reading competency in one foreign language (German often recommended).**
3. Satisfactory completion of final comprehensive exam.

*Six of the minimum 30 or 36 required credit hours may be taken in related areas such as anthropology, film studies, historic preservation, history, literature, philosophy, studio art, or women's studies, as determined by consultation with the graduate advisor.

**The foreign language competency requirement may be satisfied by any of the means established by the Graduate School.

Arts Administration, MA

The University of Kentucky prepares the next generation of arts leaders through its innovative online MA in Arts Administration. This degree is designed to serve a vibrant nonprofit arts and cultural industry that attracts more than 78 million Americans each year and generates \$135 billion in economic activity annually that support 4.1 million jobs.

Ideal candidates for the M.A. include individuals who have experience in the arts or arts management and have the desire to supplement this experience with more in-depth training in the form of an advanced business and nonprofit arts-focused degree. These include persons who have graduated with a bachelor's

degree in Arts Administration, the arts, or a related field and professionals with experience in the arts or arts management.

UK offers its M.A. in Arts Administration as a completely online program. This provides several benefits to UK graduate students:

1. **Flexibility** - For working professionals, an online program is ideal to provide the flexibility needed to balance work, school and personal obligations.
2. **Time and location** - There is no residency requirement. The program is designed for students to have equal access no matter where they are located
3. **Affordability** - All students accepted into the Arts Administration M.A. program pay the in-state tuition rate regardless of residential location. Additionally, there are a number of financial aid options available to students who meet the requirements.
4. **Quality instruction** - Students who attend online classes will receive the same quality instruction as those who would attend class on-campus.

Admission Requirements

The MA in Arts Administration is open to qualified applicants who have earned a bachelor's degree from an accredited college or university in the United States or abroad. All candidates for admission are selected on the basis of undergraduate transcripts, academic and personal references, and related work experience. Applicants are expected to have a demonstrable commitment to the arts in at least one art form. This requirement can be satisfied in several ways including an undergraduate degree in an art form or arts-related field; professional experience in the arts; or extra-curricular activity in the arts.

All applicants whose native language is not English will be required to submit TOEFL or IELTS scores. The minimum acceptable TOEFL score is 550 (paper-based) 213 (computer-based), or 79 (internet-based). The minimum IELTS score is 6.5. Submitted scores must be no more than two years old.

Applications for admission to the M.A. in Arts Administration program are reviewed by the department's Graduate Admissions Committee. The criteria for admission and the materials evaluated in making admission decisions are listed below. Please keep in mind that applicants are evaluated individually and also in terms of the overall quality of the pool of applications.

To apply for admission to the program, your application should include the following items:

- **Official transcripts**
- A **resume** (no more than two pages in length) indicating your education, professional and volunteer experience, accomplishments and qualifications for graduate study.
- A **statement of purpose** (one page, single-spaced) indicating the reasons for your interest in graduate study in Arts Administration at UK and what they hope to accomplish with their degree. Please also discuss your personal or professional skills that will aid you in successfully completing classes online.
- **Writing samples** (10-15 pages) that preferably would include at least one sample of research writing (college-level or above) but may also include professional writing samples that demonstrate critical and analytical thinking. Professional writing samples may include researched essays,

marketing or fundraising materials, planning documents or journalistic work. If you do not have an academic or professional writing sample that you wish to submit, you may opt to write a new paper. The research paper should address one of the following topics and should include appropriate citation and references:

- Discuss an issue in the arts or arts administration that you believe is of particular concern locally, regionally, nationally or internationally.
- Select a person who has had a significant influence in an artistic field. Describe and analyze the person's contributions to the arts.
- Write an essay responding to and providing compelling examples of this quote: "Art is a nation's most precious heritage. For it is in our works of art that we reveal to ourselves and to others the inner vision which guides us as a nation. And where there is no vision, the people perish." -Lyndon Johnson, on signing into existence the National Endowment on the Arts
- Any arts-related topic of your choosing
- **Two letters of recommendation** addressing the applicant's qualifications for graduate work and proclivity for the field of arts administration. Preferably one letter should come from an academic reference and one from a professional reference. When completing your online application, you will be asked to enter in the contact information of your references including their email addresses. Your references will then receive a notification email asking them to complete a recommendation on your behalf. You can check on the status of your online recommendations by logging in to your online application.

To apply for admission to the MA in Arts Administration, applications must be submitted online to the UK Graduate School. New graduate students are accepted in the fall, spring, and summer semesters.

Degree Requirements

AAD 500 THE ARTS AND ARTISTS IN SOCIETY (3 credit hours)

AAD 600 ARTS ADMINISTRATION TECHNOLOGIES (3 credit hours)

AAD 620 MANAGEMENT AND LEADERSHIP IN THE ARTS (3 credit hours)

AAD 625 FINANCIAL MGMT FOR ARTS ORGANIZATIONS (3 credit hours)

AAD 630 MARKETING RESEARCH AND PLANNING FOR ARTS ORGANIZATIONS (3 credit hours)

AAD 640 PRINCIPLES OF FUNDRAISING (3 credit hours)

AAD 650 THE ARTS AND THE LAW (3 credit hours)

AAD 690 CREATING & EVALUATING NEW ARTS PROGRAMS (3 credit hours)

AAD 730 MARKETING STRATEGIES & APP FOR ARTS ORGS (3 credit hours)

AAD 740 FUNDRAISING TECHNIQUES (3 credit hours)

Graduate Exam - Required for completion of the MA in Arts Administration

Degree Options

AAD 699 INTERNSHIP IN ARTS ADMINISTRATION ** (3 credit hours)

AAD Electives* (3 credit hours)

**Students must complete 3 credits of electives.*

***Students are required to take AAD 699 (unless they are exempt) in which case they will take a 3-credit elective course to be determined in consultation with a faculty advisor.*

Please visit the program website for more information (<https://finearts.uky.edu/arts-administration/online-ma-degree>).

Classics, MA

The M.A. program in Classics in the Department of Modern and Classical Languages, Literatures, and Cultures offers a degree with courses in Greek and Latin languages, literatures and cultures, as well as allied offerings in ancient and medieval history, ancient and medieval philosophy, archaeology, and Greek and Roman art. The mission of the M.A. Program is to train classicists who would become Latin teachers, or who, having obtained a solid knowledge of the classical languages, would pursue a Ph.D. degree in Classics, History, Philosophy, Divinity, or other related fields.

Greek studies in the M.A. Program have benefitted from in-depth exposure to Homeric Epic, and now offer close contact with faculty who specialize in Hellenistic Greek. A distinctive feature of the program is the study the Latin patrimony from antiquity until modern times. The Neo-Latin patrimony, in particular, immensely vast, multicultural and interdisciplinary in its very nature, provides infinite opportunities for study and research of the classical tradition in many fields and pertaining to many regions and populations. Also, students approach Latin as a living language of teaching, scholarly work, and communication (with the classical authors and among themselves). This fosters a personal connection to the language and is invaluable preparation for the classroom.

Options

- Option A-thesis requires completion of 30 semester credit hours of graduate work, six of which in CLA 768 (Residence Credit for Master's Degree), the defense of a Master's thesis, and an exit exam.
- Option B-non-thesis requires completion of 30 semester credit hours of graduate work and an exit exam.

Admission Requirements

The requirements for admission to the program in Classics are (a) an undergraduate grade point average of 3.0 or above on a 4.0 scale, (b) competence in one of the classical languages (Latin or Greek) and at least basic competence in the other, and (c) a combined score of 297 (new scoring) / 1000 (old scoring) on any two of the three parts of the Graduate Record Examination (GRE). The Director of Graduate Studies may admit students with lower GRE scores or an undergraduate grade point average below 3.0 if, on the basis of

a student's last two years of work, Classics grades, or general academic competence. An undergraduate major in Classics, Latin, or Greek is not required for admission, but the Program suggests that entering students should have completed at least six semesters of either Latin or Greek and four semesters of the other language. Students lacking sufficient preparation in one of the classical languages may be required to remedy such deficiencies by taking undergraduate courses.

The following documents should be submitted to the Graduate School's online application system by February 1, if the applicant is seeking financial aid, or before April 30 otherwise:

1. A one-page statement describing the applicant's reasons for seeking a Master's degree. If an applicant wants to be considered for financial aid, this is to be indicated in the opening sentence of the personal statement.
2. A list of Latin and Greek works read with approximate number of lines.
3. Transcripts.
4. GRE scores.
5. Three letters of reference (normally from former teachers).

Degree Requirements

1. The student must have a GPA of 3.0 or higher on a 4.0 scale for all graduate work.
2. The student must earn at least half of the semester credit hours in graduate courses numbered 600 or above.
3. The student must take at least two-thirds of her/his semester credit hours in regularly scheduled courses and seminars.
4. The student must take at least two-thirds of her/his semester credit hours in Classics.
5. A student's schedule of courses for each registration period, including any changes, must be approved by the DGS to be acceptable toward the fulfillment of degree requirements.
6. Latin prose composition, CLA 501, is required of all M.A. students.
7. A student must earn a minimum of nine credit hours in graduate courses in each of the classical languages and an additional six credit hours in graduate courses in either Greek or Latin or a combination of the two. When special circumstances arise, the DGS has the authority to revise this requirement.
8. All students must pass an exit exam before receiving the MA degree.
9. The student may transfer up to nine hours from a graduate program at another university or from post-baccalaureate graduate work at UK.
10. The student must have taken all course work within eight years of the semester in which the degree is awarded.

M.A. in Classics (track Latin) as a concurrent degree with M.A. in Teaching World Languages (MATWL)

Degree requirements: same as described as above, except for 7. Instead, students pursuing this track are required to take at least 8 graduate courses in Latin (24 credit hours). There is an exit requirement of a minimum of 4 semesters of Greek or equivalent (beginners and intermediate level).

<https://mcl.as.uky.edu/ma-classics>

Communication, MA

The College of Communications and Information offers programs leading to the Master of Arts (either Plan A or Plan B) and Doctor of Philosophy degrees in Communication. The program offers special opportunities for students to apply communication theory and research across many contexts. Students may develop a program of study emphasizing (or combining) research areas such as health communication, information studies, instructional communication, media and mass communication, risk and crisis communication as well as strategic and organizational communication. The program is designed to serve the needs of students whose goals may include teaching and academic research, professional research, or communication careers in the media or other organizations.

Students pursuing work in health communication are encouraged to develop interdisciplinary programs involving the Department of Behavioral Science, the College of Medicine, as well as the Colleges of Dentistry, Health Sciences, Pharmacy, and Nursing. Communication also participates in interdisciplinary research programs with the Center for Prevention Research, the Sanders-Brown Center for Aging, and a variety of other health-related departments and institutes.

Admission Requirements

Students with an undergraduate degree from a fully accredited institution of higher learning and a grade point average of 3.0 on a 4.0 scale are admissible to the graduate program. Only students who have previously completed a master's degree may apply for admission into the doctoral program. Master's degree applicants are expected to have had at least twelve hours of appropriate undergraduate work in communication. Students with degrees in areas not directly related to communication are encouraged to apply, but they may be required to take course work without graduate credit. Should the Admissions Committee feel there is a deficiency in the applicant's studies, it may require enrollment in specific undergraduate courses. Courses taken to remove a deficiency cannot be counted towards the master's degree. In some cases, successful professional experience in a communication field will be considered in admitting students to the program.

Applicants must complete the University of Kentucky's Graduate School online-application and pay the application fee. Per the Graduate School's instruction, all applicants are required to submit official scores on the Graduate Record Examination and official transcripts of all work taken at and beyond the college level. Students whose native language is not English must also submit an official score of at least 550 (or 213 on the computer version or 79 on the internet-based version) of the Test of English as a Foreign Language (TOEFL) or a minimum of 6.5 of the International English Language Testing Service (IELTS). Additionally, all applicants must submit to the College of Communications and Information Studies Graduate Admissions office: (1) transcripts of all work taken at the college level (unofficial or photocopies are acceptable), (2) at least three letters of recommendation focusing on their academic abilities accompanied by the supplied Reference Form and (3) the completed Application Essay indicating why they want to pursue a graduate degree with their reasons for applying to the program. No additional forms are required for financial assistance consideration-all applicants will be considered for funding at the time of review.

The Admissions and Financial Aid Committee will review only completed admission files after January 5 of each year. Applications must have their completed file on record with the Associate Dean for the Graduate Programs in Communication by the deadline in order to be considered for fall admission. New graduate students are permitted to enroll only during the fall semester. Exceptions will be made only because of circumstances beyond the control of the applicant. This deadline does not apply to: (1) UK undergraduate students in the College of Communications and Information Studies applying as University Scholars, who may be admitted for summer, fall or spring semesters, and (2) current students in the M.A. Program in Communication or the M.L.S., M.S.L.S or M.S. in ICT.

Degree Requirements

The M.A. program requires that every student become familiar with the important theories and concepts and the principal investigation methods used to expand knowledge of communication. All students are required to complete 30 credit hours to complete the Master of Arts degree. Students will be required to take 12 core credit hours consisting of Communication Theory (CI 651), and Communication Research Methods (CI 665), plus Statistics 570 (or its equivalent as determined by the Associate Dean for Graduate Studies). In addition, all students will be required to take either Interpersonal Communication (CI 631) or Mass Communication (CI 608 or CI 645). Students may choose from either the Plan A (Thesis option) or Plan B (non-thesis) options to complete their Masters degree requirements.

Plan A: Students choosing Plan A will take a minimum of 24 credit hours of actual course work, and write a thesis (Note: the six thesis credits must be taken under CI 768 - Residence Credit for the Master's degree). All students will also complete an oral examination in defense of the thesis. Students choosing Plan B, will take a minimum of 30 hours of course work, followed by a written and oral examination over the student's program.

At least 21 credit hours of the minimum requirements for the master's degree must be from offerings within the College of Communications and Information studies (both Plan A and Plan B). Plan A students may include six hours of CI 768 in the 21 hours, since the thesis involves work in an area of communication. Also, at least 15 credit hours of the minimum requirements must be in courses at the 600 and 700 levels (both Plan A and Plan B). Plan A students may include six hours of CI 768 in the 21 hours. No more than three credit hours in Plan A and 6 credit hours in Plan B (of the minimum requirements) may be earned in directed study, directed reading, or internship courses (e.g., CI 696 , CI 700 , CI 781 , and CI 790).

Students without previous course work in communication may be required to take undergraduate work that does not count toward graduate credit, as determined by the Admissions Committee. Individuals without significant practical experience are strongly encouraged to take CI 696 - Internship in Communication, which could include opportunities to work with external agencies and funded projects, both within and outside the university.

Diplomacy and International Commerce, MA

The Patterson School of Diplomacy and International Commerce offers a Master of Arts program designed to prepare students academically, professionally, and personally for careers in international affairs. Formal academic coursework is combined with experiential learning via a rich variety of co-curricular activities. The Patterson School M.A. is excellent preparation for service with government agencies such as the U.S. Departments of State, Treasury, or Commerce, and in the intelligence community, careers in international organizations or non-governmental organizations or in the private sector. The Patterson School faculty is a mix of academics and former foreign-affairs practitioners who spent decades in government service prior to starting their teaching careers. Students come to the Patterson School with diverse undergraduate degrees, but most are well-prepared in political science, economics and foreign languages.

Our flexible programs total 30 credit hours and can be completed in just three semesters. Each student enrolls in core curriculum courses and seminars taught by regular Patterson School faculty in one of four concentrations: diplomacy, development/international organizations, security/intelligence, and international commerce. Beyond this core, students can work with their academic advisors to craft interdisciplinary courses of study tailored to their unique desires that draw widely upon other University of Kentucky graduate departments. Patterson School students have developed individual degree plans that include classes in agricultural economics, anthropology, finance, marketing, management, foreign languages, history, political science, communications, sociology, law, geography, public health, and more. Additionally, students can

pursue certificate programs in Global Health or International Education. This flexibility in curriculum is pivotal to the Patterson School concept.

Admission Requirements

Admission to the Patterson School is highly selective. The deadline for applications is February 1st. The online application process begins at the Patterson School website <http://www.uky.edu/PattersonSchool/>. Each applicant is required to submit GRE scores, college transcripts, a resume, a brief statement explaining his/her interest in the Patterson School program in terms of career goals, and two to four letters of reference. International students are also required to take the Test of English as a Foreign Language or the International English Language Testing System.

Degree Requirements

All students begin the program as a group in the fall semester. Even though three semesters are required to complete the required coursework, some students elect to remain a fourth semester in order to obtain more breadth and/or depth in their desired fields of professional preparation, or additional language training. Entering students are expected to have a strong background in at least one foreign language but many students undertake further language study during the program (although this study does not earn credit for the M.A. degree). Students are strongly encouraged to complete a career-related internship in the United States or abroad, typically during the summer between their second and third semesters.

Foreign Language

Cornerstone & Methodology

All students must complete the following two courses in the Fall semester of their first year of the program:

- DIP 700 DYNAMICS OF DIPLOMACY (3)
- DIP 777 RESEARCH PROBLEMS IN INTERNATIONAL RELATIONS (3)

One of the following Concentrations:

Diplomacy

Complete the following course:

- DIP 600 SPECIAL TOPICS

International Security & Intelligence

Complete two of the following courses:

- DIP 726 INTRODUCTION TO INTELLIGENCE (3)
- DIP 742 NATIONAL SECURITY POLICY (3)
- DIP 750 DEFENSE STATECRAFT (3)

International Commerce

Complete the Following Course:

- DIP 720 ECONOMIC STATECRAFT (3)

International Organizations & Development

Complete two of the following courses:

- DIP 600 SPECIAL TOPICS: Transnational Orgs & Processes (3)
- DIP 600 SPECIAL TOPICS: Economics of Development (3)

Total Credit Hours: 30

All students must successfully pass written and oral comprehensive examinations before being awarded their master's degree. These exams require students to draw upon the full measure of academic and professional activities they have experienced in the program, testing their universal foreign affairs knowledge as well as their unique specialized skills. During their last semester, most students join informal study groups to prepare for this critical final step. Each student has only two chances to pass the comprehensive examinations. Students are also required to maintain a 3.0 grade point average to graduate.

Patterson School students are able to take advantage of a variety of joint degree opportunities to combine the study of international affairs with other disciplines, such as law or business. Students must meet the admission requirements of the separate programs independently and commit upfront to pursue both degrees. The Patterson School currently maintains concurrent degree programs in Law, Business, Economics, and Modern Languages. While many Patterson School graduates have later obtained doctoral degrees, this M.A. program is specifically designed to prepare students for non-academic careers in international affairs. Students who contemplate working immediately on a Ph.D. are generally advised to pursue that goal elsewhere.

J.D./M.A. in Diplomacy -- The University of Kentucky Law School joins the Patterson School in offering a dual degree program in law and diplomacy that permits students to acquire both degrees in four years' time. Professionals trained in both law and international affairs are well positioned to seek positions in the private, public and non-profit spheres. Interested students must apply separately to each program, noting their desire to pursue the dual degree. For further information, contact the Director of Graduate Studies in the Patterson School of Diplomacy and International Commerce and the College of Law.

M.B.A./M.A. in Diplomacy -- The Patterson School of Diplomacy and International Commerce and the College of Business and Economics offer the opportunity to obtain the Master of Business Administration (M.B.A.) and the MA in Diplomacy degrees in a dual degree program that requires less time than would be required to achieve both degrees separately. The dual program of studies is designed to train students for international business careers or careers in government service that emphasize international business relations. Interested students must apply separately to each program, noting their desire to pursue the dual degree.

M.S. in Economics/M.A. in Diplomacy --The Department of Economics of the Gatton College of Business and Economics combines with the Patterson School of Diplomacy to offer a dual degree program in economics and diplomacy that allows students to obtain both degrees in less time than would be required to achieve both degrees separately. The dual program of studies is designed to train students to become

international economic analysts serving in government or international research institutions, or economic specialists headed for government departments (Treasury, State, U.S. Trade Representative) or intergovernmental organizations. Interested students must apply separately to each program, noting their desire to pursue the dual degree.

M.A. in a Modern Language/M.A. in Diplomacy --The Department of Modern and Classical Languages, Literatures, and Cultures in cooperation with the Patterson School of Diplomacy and International Commerce offers a dual degree program that allows students to obtain both degrees in less time than would be required to achieve both degrees separately. Interested students must apply separately to each program, noting their desire to pursue the dual degree.

English, MA

The two-year MA program in English at the University of Kentucky provides broad training in literature, language, and theory. The flexible program is designed to meet the academic and professional needs of a range of students, including scholars who plan to move on to the PhD degree and teachers and professionals in the region who wish to pursue the terminal MA. Students can select either literature or film as their area of concentration. With rare exceptions, all MA students are funded through TAships.

The department offers a wide variety of specializations not only in traditional literary history but also in film studies, cultural studies, African-American Studies, and Postcolonial Theory. The Department of English consists of 41 full-time faculty members who offer a range of courses in British, American, African-American, and Women's Literature, Creative Writing, Film, and Literary Theory. The graduate program relies on a nationally recognized faculty, a strongly supportive University of Kentucky Research Foundation, an active university press, and a research library of 1.2 million volumes.

Admission Requirements

Students eligible for the MA program must have:

- A UGPA of at least 3.25 on a 4.0 scale. Unofficial transcripts from all attended institutions are required. If the student is admitted and accepts, the graduate school will require all official transcripts. University of Kentucky graduates should note their degrees on the application but are not required to submit transcripts.
- An undergraduate degree in English or its equivalent. Applicants who do not complete an undergraduate English major but have a substantial background in literature should contact the Director of Graduate Studies.
- Three letters of recommendation, preferably from faculty familiar with the student's strengths and interests.
- A statement of purpose of no more than two pages that outlines what research interests the student expects to pursue for the PhD.
- A writing sample of approximately 20 pages that demonstrates the student's ability to carry out original research and make cogent arguments.

- A CV or resume.
- As of fall 2021, neither the general GRE nor the subject test in English is a required component of a student's application.

Degree Requirements

The MA timeline has two paths: a thesis (Plan A) and a non-thesis (Plan B) option.

Plan A students must

- Take 30 credit hours of coursework at the graduate level, which may include up to 6 hours of ENG 768. Students on assistantship are advised to take nine credit hours each semester (fall and spring) during the first year, six credit hours in the fall of the second year, and spend the spring semester of their second year writing their thesis and preparing for their oral examination. The oral examination will take place toward the end of the spring semester of the second year.
- Form a thesis committee consisting of a director and two other faculty members from within the English department.
- Write a Master's thesis (normally not to exceed 60 pages) on an original topic in a recognizable subfield of the discipline.
- Defend the thesis in a 90-minute oral examination.

Plan B students must

- Take 30 credit hours of coursework at the graduate level. Students on assistantship are advised to take nine credit hours each semester (fall and spring) during the first year and six credit hours each semester (fall and spring) during the second year. The oral examination will take place toward the end of the spring semester of the second year.
- Form a committee consisting of a director and two other faculty members from within the English department.
- Take a 90-minute oral examination based on a reading list of 30 to 50 texts to complete their degree.

MA students who choose either Plan A or Plan B may take up to six credit-hours of courses at the graduate level outside of the English Department. They can also apply for a wide variety of graduate certificates, which typically require 9 to 15 hours of coursework. These certificates range from Gender and Women's Studies to Social Theory to Preparing Future Faculty.

For a list of the available certificates, see here: <https://gradschool.uky.edu/graduate-certificates>

For a fuller sense of what the English department doctoral program's requirements and expectations are, including sample timelines to degree, see here: <https://english.as.uky.edu/doctoral-program>

French, MA

Graduate students in French and Francophone Studies are members of a dynamic intellectual environment. In addition to their coursework in French language, literature, and culture, M.A. candidates at UK pursue their intellectual interests in adjacent fields such as philosophy, history, women's studies, film studies, linguistics, English, and art history. Graduates of the M.A. in French and Francophone Studies program often pursue PhD degrees in French Studies at some of the best doctoral programs in the U.S, including, in recent years, Harvard, Michigan, UPenn, Duke, and Berkeley. Other graduates have gone on to teach in independent schools around the U.S. or have pursued a second Master's degree at the UK in Teaching World Languages (MATWL) or Teaching English as Second Language (MATESL), or through the UK Patterson School of Diplomacy and International Commerce. Others have gone on to law school or graduate programs in, for example, international affairs, education and study abroad administration, or work in the U.S. Department of State.

Admission Requirements

- Evidence of completion of the equivalent of the University of Kentucky's undergraduate major in French
- A minimum 3.25 undergraduate GPA in French on a four-point scale
- A statement of purpose for seeking the M.A. in French and Francophone Studies
- Completion of the GRE
- Three letters of recommendation addressing the applicant's qualifications for graduate work in French
- A writing sample in French by the applicant (analytical prose, typically a graded term paper; not a creative work)
- Non-native speakers of French must submit a digital recording (3-4 minutes) of themselves reading a contemporary prose passage in French (a newspaper or magazine article, not a literary work). Because there is no way to upload this recording directly into the Graduate School's application system, applicants should send the recording as an email attachment directly to the Director of Graduate Studies.
- Non-native speakers of English must submit a digital recording of themselves reading a contemporary prose passage in English (a newspaper or magazine article, not a literary work). Because there is no way to upload this recording directly into the Graduate School's application system, applicants should send the recording as an email attachment directly to the Director of Graduate Studies. In addition, they must fulfill the UK Graduate School's Test of English as a Foreign Language (TOEFL) requirement.

Degree Requirements

- 30 credit hours
- FR 553 TEACHING OF FRENCH
- 27 hours of graduate-level coursework in French and Francophone Studies
- Successful completion of the Master's Examination during the fourth semester of study
- Documented reading proficiency, as defined by the UK Graduate School, in a second world language

Geography, MA

The MA in Geography is designed to develop the theoretical, conceptual and methodological training necessary for students to make original contributions to geographic knowledge. The University of Kentucky's Department of Geography is known for high quality research and education in human geography, physical geography, and mapping. Program strengths include close faculty/student interaction, flexibility in designing an appropriate plan of study, and research training in seminar environments.

A variety of philosophical and methodological approaches are encouraged to prepare students for research-oriented careers in universities, government, and industry. Emphasis is placed on theoretical and methodological training and is closely integrated with both breadth and depth in substantive literatures. Student research also is empirically rich, with data regularly acquired through off-campus fieldwork. Members of the faculty are committed to assisting students in disseminating their research through publications in professional journals and presentations at conferences, and in obtaining external funding. Graduate students also gain valuable experience as instructors in undergraduate courses. Rounding out graduate students' experiences is their active participation in departmental governance and service on departmental committees.

Faculty and student research in the Department focuses on interrelated thematic clusters in accordance with the current interests of graduate students and faculty. The clusters facilitate collaborative scholarship though they typically do not function as formal research teams. The clusters tend to work as loose and overlapping intellectual communities that can incorporate working groups, reading groups, and collaborative projects, and they give a sense of the breadth of the research conducted in the department. The research clusters we presently feature are: Black Geographies, Critical Financial Geographies, Critical Mapping and GIS, Digital Geographies, Environmental Geographies, Political Ecology, Political Geographies, Queer and Feminist Geographies, Social Theory and Urban Geographies. Descriptions of each cluster and their associated faculty are available at <https://geography.as.uky.edu/geography-research-clusters>

The MA in Geography is available in two options:

- Plan A: 30 credit hours of coursework (including six credits of thesis) and an oral examination.
- Plan B: 30 hours of coursework, a research paper, a written exam and an oral examination.

Admission Requirements

We accept applicants holding Bachelor degrees in any field. In addition to UK Graduate school required materials, applicants should also provide:

- A statement of goals and objectives in which you discuss your areas of scholarly interest, research directions you wish to pursue, and how your goals fit in with the Department of Geography.
- A current resume or curriculum vitae.
- Three letters of references from persons who can evaluate your potential for success in our graduate program.

More details are available at <https://geography.as.uky.edu/admissions>

Degree Requirements

- Students are required to complete thirty hours of coursework.
- Students are required to take GEO 600 INTRODUCTION TO METHODS IN GEOGRAPHY

- Students are required to take GEO 702 CONCEPTS IN GEOGRAPHY
- Plan A students are required to take six credits of GEO 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE (Thesis)
- Plan B students are required to take an advanced methods course (such as GEO 705) appropriate to the student's interest and approved by the student's thesis advisor and the DGS
- For the remaining credits qualifying courses are as follows:
 - no more than 6 credit hours below the 600 level in the Department of Geography (GEO or MAP prefixes);
 - no more than 6 credit hours of independent study;
 - no more than 9 credit hours taken outside the Department of Geography; and
 - at least 16 credit hours must be regular courses (not independent study courses) numbered at the 600 or 700 level.

German, MA

The Department of Modern and Classical Languages, Literatures and Cultures offers a graduate program leading to the M.A. (Plan A or B) degree in German.

The general goal of graduate work in German is to provide students with a critical understanding of German culture, its language and literature and its relationship to western civilization as a whole. Specific courses are designed to acquaint students with the aims and methods of research in the fields of language pedagogy, literary and cultural history, literary theory, and historical linguistics. Students working as teaching assistants under faculty supervision have ample opportunity to develop effective teaching skills in a controlled setting.

Individual programs of study are planned with consideration of the student's competencies and interests. The Department endeavors to be flexible and to accommodate career goals in teaching, government service, or research. Areas of specialization of the graduate faculty of the department afford flexible coverage in breadth and depth, with particular strength in early modern studies, the Age of Goethe, Wilhelmine and Weimar culture, contemporary literature and culture, literary theory, intellectual history, gender studies, and foreign language pedagogy. The Department serves as the editorial center for the international journal *Colloquia Germanica*. The University Library has substantial holdings in all areas of German language, linguistics and literature and in supporting fields.

Admission Requirements

Admission requirements include an acceptable undergraduate major in German, a satisfactory score on the Graduate Record Examination (GRE), and three letters of recommendation. Applicants lacking more comprehensive knowledge of German language and literature may be admitted with the understanding that their program must include some advanced undergraduate work in addition to those courses normally required for the M.A.

Degree Requirements

Plan A (thesis):

- 30 total credit hours
- 24 credit hours in GER prefix courses not including GER 768 RESIDENCE CREDIT FOR MASTER'S DEGREE
- Graduate foreign language requirement, normally in French
- Completion of a thesis and oral examination

Plan B (non-thesis):

- 30 total credit hours, of which 24 must be in courses with the GER prefix
- Graduate foreign language requirement, normally in French
- An oral and written examination

<https://mcl.as.uky.edu/ma-german>

Hispanic Studies, MA

Admission Requirements

We require a B.A. in Hispanic Studies or a related area, demonstrated fluency in Spanish and English, strong letters of reference and a representative research essay from the candidate's prior academic work. Graduate Record Examination scores are required for admission. Foreign students must pass the TOEFL with the minimum required score of 550 on the paper version of the exam, 213 on the computer version, or 79 on the Internet/IBT version. Supervised teaching experience within the department is a requirement for both the M.A. and Doctoral degrees.

Degree Requirements

36 credit hours total. Reading knowledge of one foreign language in addition to Spanish and/or English; successful completion of SPA 553 TEACHING OF SPANISH, SPA 600 INTRODUCTION TO SPANISH LINGUISTICS, SPA 606 INTRODUCTION TO CRITICAL THEORY AND CULTURAL STUDIES and SPA 770 INTRODUCTION TO HISPANIC STUDIES. Successful completion of an additional 24 hours of credits of which 6 may be taken at the 500 level (24 credits must be taken at the 600 level or above). The M.A. is granted to a student who has successfully passed a written and oral examination after completing the required coursework. One half of the exam is designed to test the candidate's knowledge of the M.A. Reading List (located at <https://hs.as.uky.edu/sites/default/files/Post-May%202015%20MA%20Reading%20List.pdf>) and the other half is based on the candidate's graduate-level coursework. A student who plans to complete only the M.A. degree (or is not admitted into the Ph.D. program) has four semesters to complete the coursework towards the MA. M.A. exams are given in August and January.

NOTE: Students who are admitted into the Ph.D. program during the fourth semester of coursework are not required to take an M.A. exam after four semesters. The M.A. degree will be conferred to them upon

successful completion of the doctoral Qualifying Exam. Students who enter the program with an M.A. from another institution will be evaluated by the Graduate Studies Committee at the beginning of the third semester of coursework. If the committee deems the student's work acceptable, the student may then go on to complete the PhD requirement. If the work is deemed unacceptable, the student will be required to pass the MA exam before proceeding on to the Ph.D

History, MA

The M.A. degree is available to students seeking a stand-alone (or terminal) M.A. and to students who are seeking an M.A./Ph.D. Many M.A. graduates pursue careers in high school teaching, government service, libraries and archives, and private employment. Others continue on to the Ph.D. program or to doctoral study at other institutions.

Admission Requirements

Students applying for the MA degree program should submit evidence of extensive undergraduate preparation in History (preferably an undergraduate major). Applicants who wish to be considered for financial assistance and fellowships should review the department's web-site for specific deadlines. For additional information on application procedures and requirements, consult:
<https://history.as.uky.edu/history-graduate-program/applying-program>

Degree Requirements

MA Plan A (Thesis)

Credit requirements:

- 30 semester credit hours of coursework and a thesis with a standing of 3.0 (B) or better

Course requirements:

- HIS 606 HISTORICAL CRITICISM
- At least 15 credit hours at the 600 or 700 level (not including 768 hours)
- At least one 700-level research seminar
- At least 16 credit hours must be from Department of History courses (not including 768 hours)
- At least 16 credit hours of regularly scheduled courses (excludes the following course types: independent study, research, residency, practicum)
- A maximum of 6 hours of HIS 768 is allowed
- Students must write an MA thesis under the supervision of a MA advisor. The thesis must be an original work of scholarship and 60-100 pages in length.
- Students must defend the MA thesis in an oral examination before an advisory committee that consists of the student's advisor and two other faculty members. The exam will focus on the thesis, but the student may also be examined over the MA coursework.
- Meet the MA foreign language requirement as outlined in the Graduate School Bulletin and any additional requirements specified by the student's field.

MA Plan B (Non-Thesis) -- Plan B can be satisfied by one of the following two options:

Credit requirements:

- 30 semester credit hours of coursework and an essay with a standing of 3.0 (B) or better

Course requirements:

- HIS 606 HISTORICAL CRITICISM
- At least 21 credit hours at the 600 or 700 level
- Two 700-level research seminars
- At least 21 credit hours of regularly scheduled courses (excludes the following course types: independent study, research, residency, practicum)
- At least 20 credit hours must be from Department of History courses
- Students must write an MA essay under the supervision of a MA advisor. The thesis must be an original work of scholarship and 45-60 pages in length.
- Students must defend the MA essay in an oral examination before an advisory committee that consists of the student's advisor and two other faculty members. The exam will focus on the essay, but the student may also be examined over the MA coursework.
- Meet the MA foreign language requirement as outlined in the Graduate School Bulletin and any additional requirements specified by the student's field.

OR

Credit requirements:

- 36 semester credit hours of coursework and 3 papers with a standing of 3.0 (B) or better

Course requirements:

- HIS 606 HISTORICAL CRITICISM
- At least 24 credit hours at the 600 or 700 level
- Two 700-level research seminars
- At least 24 credit hours of regularly scheduled courses (excludes the following course types: independent study, research, residency, practicum)
- At least 24 credit hours must be from Department of History courses
- The student must submit three papers to an advisory committee. These papers must have been written for graduate credit in the Department of History's MA program. Two of the papers must be research papers that demonstrate competence in historical research and writing, and the third should be a historiographical review essay of at least twenty pages. The student will participate in an oral examination before the advisory committee that is based on these papers.
- Meet the MA foreign language requirement as outlined in the Graduate School Bulletin and any additional requirements specified by the student's field.

For more information about the History MA program and its requirements, see: <https://history.as.uky.edu/history-graduate-program/ma-program>

Linguistic Theory and Typology, MA

The MA in Linguistic Theory & Typology (MALTT) offers training by a world class faculty in theoretical frameworks for approaching descriptive, historical, and sociolinguistic data with a special focus on how grammatical features are distributed across the world's languages. Emphasis is given to language modeling

and analysis through computational and quantitative methods. In addition to providing invaluable intellectual preparation for doctoral studies in linguistics, the MALTT program prepares students for careers in high-tech industries, text-based consultancies in law and medicine, and jobs in government agencies.

Admission Requirements

We welcome students with a BA/BS major or minor in Linguistics. Students with degrees in cognate disciplines are also welcome to apply but will have to take an introductory course in linguistics prior to enrollment. We run such a course as a summer online course. Minimum GPA is 3.3. Funded positions are available (TA, RA) on a competitive basis.

Degree Requirements

Students take 30 hours of LIN course work and complete a thesis. The course work must include at least 15 hours taken at the 600 or 700 level. Mandatory courses are LIN 601 RESEARCH METHODS IN LINGUISTICS and LIN 701 RESEARCH SEM IN LIN THEORY AND TYPOLOGY. All students must take a syntax course (LIN 512, LIN 622 or LIN 712) and a phonology course (LIN 515, LIN 615 or LIN 715). Students must also take a course in either morphology (LIN 505, LIN 605, LIN 705) or a course in phonetics (LIN 500, LIN 600 or LIN 700). The thesis component consists of a written research project and oral examination. The thesis must be approved by a committee of three faculty.

Mathematics, MA

The Master of Arts degree, featuring a core program that emphasizes mathematical structures, is designed for prospective community college teachers and for students contemplating studies at the Ph.D. level.

Admission Requirements

The MA program in Mathematics does not have formal admission requirements other than those of the Graduate School. Admission, however, is competitive. The admissions committee reviews transcripts, letters of recommendation, and the candidate's personal statement, seeking evidence of mastery in proof-based mathematics (such as analysis, topology, and modern algebra), the ability to craft mathematical proofs, and general mathematical maturity.

Degree Requirements

- Students must complete 30 hours of graduate work in Mathematics and related areas.
- Of these 30 hours, students must have:

- At least 20 hours in Mathematics courses,
- At least 15 hours at the 600 level or above, with
- At least 12 hours in Mathematics courses at the 600 level or above.
- There is substantial flexibility in the courses a student may take for the MA degree.
- Students may select from Plan A (thesis option) or Plan B (non-thesis option).

Music Theory, MA

The School of Music offers the Master of Arts (M.A.) with specialty areas or emphases in musicology or theory. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The applicant for the master's degree is expected to have earned an appropriate undergraduate degree.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. For those applying for Music Theory entrance exams and an interview are required as part of the application process. Students should contact the Division Coordinator or Director of Graduate Studies to schedule exams and an interview. Admission for all degrees is conditional upon passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours.

Degree Requirements

Students who have not passed the entrance exams in music history and/or music theory will be required to take review classes in those areas during the first 12 hours of study.

- Theory (including a minimum of one course from MUS 670, MUS 671, MUS 672 or MUS 676) (9-12)
- Music History and Literature (6-9)
- Research Methods (MUS 618) (3)
- Directed Electives (0-6)
- Thesis (6)

Total (30)

Additional Requirements for Master of Arts Degree

Foreign Language Requirement: The Master of Arts degree requires a reading knowledge of one foreign language, preferably French or German. Language classes must be passed with a letter grade of B or above.

Thesis Requirement: The Master of Arts degree requires a thesis (Plan A: see general requirements). A final comprehensive examination is required for each program.

At least fifty percent of all course credits must be at the 600 level or above.

Musicology, MA

The School of Music offers the Master of Arts (M.A.) with specialty areas or emphases in musicology or theory. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The applicant for the master's degree is expected to have earned an appropriate undergraduate degree.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. For academic degrees, entrance exams and an interview are required as part of the application process. Students should contact the Division Coordinator or Director of Graduate Studies to schedule exams and an interview. Admission for all degrees is conditional upon passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours. Students may consider applying directly to the blended MA/PhD program in Musicology/Ethnomusicology.

Degree Requirements

Students who have not passed the entrance exams in music history and/or music theory will be required to take review classes in those areas during the first 12 hours of study.

- Music History and Literature (9-12)
- Theory (including a minimum of one course from MUS 670, MUS 671, MUS 672, or MUS 676) (6-9)
- Research Methods (MUS 618) (3)
- Directed Electives (0-6)
- Thesis (6)

Total (30)

Additional Requirements for Master of Arts Degree

Foreign Language Requirement: The Master of Arts degree requires a reading knowledge of one foreign language, preferably French or German. Language classes must be passed with a letter grade of B or above.

Thesis Requirement: The Master of Arts degree requires a thesis (Plan A: see general requirements). A final comprehensive examination is required for each program.

At least fifty percent of all course credits must be at the 600 level or above.

Political Science, MA

The M.A. degree may be earned under either of two plans: Plan A requires at least 30 hours, with 6 hours coming from 768 for the thesis; Plan B requires at least 30 hours of course work, passing (written and orals) in two fields of political science with a standing of a 3.0 GPA or higher, and satisfaction of the language or alternative skill requirement.

Under either plan, the student must take at least two-thirds of the required semester hours in political science, and at least half of the required hours must be in courses at the 600 or 700 level. All students pursuing the M.A. degree must take PS 671 (Strategies of Inquiry).

Admission Requirements

Candidates for admission to the graduate program in political science must apply using the Graduate College online application system. Required information includes (1) a copy of transcripts and GRE scores; (2) a one- to three-page Statement of Purpose explaining why the student wishes to pursue a Ph.D. degree; (3) three letters of recommendation from persons familiar with the applicant's academic performance; (4) a sample of writing on a topic relevant to political science; (5) a resume or curriculum vitae, and (6) TOEFL scores if the applicant's first language is not English. Applications will only be considered for the fall semester.

Applicants will be evaluated on the basis of the Department's judgment of the likelihood of their success in the program as compared with other applicants and considering the limited number of applicants accepted to the program. In evaluating candidates, the Department will consider the totality of their records, including grades, test scores, letters of recommendation, writing samples, and other relevant information. The department usually only accepts applicants to the Ph.D. program. Students who do not have political science undergraduate majors are welcome in this program.

Degree Requirements

30 credit hours

Required courses:

- Plan A: PS 671 and 6 credits of PS 768
- Plan B: PS 671

At least two-thirds of the semester hours in political science (excluding PS 768 hours)

At least half of the required hours must be in courses at the 600 or 700 level (excluding PS 768 hours)

Psychology - Clinical Psychology, MA

Students earn a MA/MS degree as part of their milestone towards earning their doctoral degree in the Clinical Psychology PhD program. The MA/MS degree in Clinical Psychology is not intended to be a stand-alone or terminal degree program. Students seeking only a MA or MS degree are not admitted to the program.

The Ph.D. program in Clinical provides academic courses, practica, and internships which permit students to combine their teaching and research activities with a clinical career in the mental health field. Special areas of expertise among clinical faculty include psychological assessment, child clinical psychology, health psychology, neuropsychology, personality, psychopathology and diagnosis, psychotherapy, research methodologies, and substance abuse. Clinical training is facilitated by early placement of students at a variety of sites including medical centers, a federal corrections facility, community mental health centers, state and private psychiatric hospitals, and the department's own psychological clinic. Our doctoral program is accredited by the American Psychological Association and by the Psychological Clinical Science Accreditation System.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Health Psychology Concentration
- Neuropsychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 30

Core requirements

- See requirements for Clinical Psychology PhD program

General information on electives

- Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Psychology - Experimental Psychology, MA

Students earn a MA/MS degree as part of their milestone towards earning their doctoral degree in the Experimental Psychology PhD program. The MA/MS degree in Experimental Psychology is not intended to be a stand-alone or terminal degree program. Students seeking only a MA or MS degree are not admitted to the program.

The Ph.D. program in experimental psychology is subdivided into cognitive neuroscience, and developmental, social, and health psychology. The Cognitive Neuroscience program is intended for students who wish to study the underlying neural systems of cognitive processes. It provides a strong background in both systems-level neuroscience and cognitive psychology and allows students to develop integrative research interests that cross domains. Research includes a range of topics and methodologies aimed at understanding mechanisms of behavior in laboratory animals and human subjects. Drug use and addictive behaviors are a key focus. Levels of analysis include cellular function, animal behavior, and human substance users. Methodologies include electrochemical measurements, chemogenetics, neuronal cell culture, psychopharmacology, analytical chemistry, quantitative modeling of cognitive functions and decision-making, and fMRI.

In the Developmental, Social, Health program, students typically receive primary conceptual and methodological training in Developmental Psychology, Social Psychology, OR Health Psychology (each are "tracks" within our program). This training will reflect the expertise of your advisor (and lab) in their respective subfield (e.g., Social Psychology) and will prepare you for the academic job market in this subfield. As some faculty in the Developmental, Social, and Health program are truly "hybrid" psychologists (equivalent expertise in Social and Developmental Psychology, for example), students may also gear training across subfields by pursuing relevant coursework, research collaborations, teaching experiences, etc.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Cognitive Neuroscience Area
- Developmental, Social, & Health Area
- Health Psychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 30

Core requirements

- See requirements for Experimental Psychology PhD program

General information on electives

- Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Sociology, MA

The Sociology graduate program offers Master of Arts and Doctor of Philosophy degrees. Plan A or B are both options for the Master's degree. Graduate students choose an area of specialization related to the following faculty areas of expertise: Crime, Law, and Deviance; Environment and Society; Health and Medical Sociology, and Social Inequalities. Additionally, students must demonstrate competence in sociological theory and social science methods.

To aid in financing graduate education, a number of teaching or research assistantships are available to qualified students. Outstanding students may compete for fellowships.

Opportunities for multidisciplinary work exist in conjunction with centers and programs at the University of Kentucky including the Appalachian Center and Appalachian Studies, Center for Health Equity Transformation, Center for Research on Violence Against Women, Prevention Research Center, Center on Drug and Alcohol Abuse, Center for Poverty Research, Committee on Social Theory, Commonwealth

Institute for Black Studies, Cooperative for Humanities and Social Sciences, Gender and Women's Studies, Quantitative Initiative for Policy and Social Research, and the Sanders-Brown Center on Aging. Assistantships and traineeships are also available to qualified sociology graduate students through these centers and programs.

Admission Requirements

The following materials are required to apply for admission to the graduate program in Sociology and should be sent directly to the Graduate School's application system's website. Any inquiry on the program requirements and the admission process should be directed to the Director of Graduate Studies of the Department of Sociology.

- The percentile rankings of the three components of the Graduate Record Examination (GRE) must average (mean) at least 50 percent.
- A statement of goals and reasons for pursuing an advanced degree in sociology. It is helpful if applicants also address the field(s) of interest within sociology they may wish to pursue in their graduate studies.
- A sample of writing, preferably in the form of a term paper, an extensive essay, or a draft of a senior thesis. If the applicant has completed a master's degree, she or he may submit one or two chapters from the master's thesis. Please do not submit a copy of the entire master's thesis.
- Three letters of recommendation.
- Undergraduate and graduate transcripts, if applicable.
- TOEFL/IELTS scores, if applicable.

Degree Requirements

36 total credit hours pre-residency

Core requirements

- SOC 681 QUANTITATIVE ANALYSIS I
- SOC 781 QUANTITATIVE DATA ANALYSIS II
- SOC 651 CLASSICAL SOCIOLOGICAL THEORY
- SOC 751 CONTEMPORARY SOCIOLOGICAL THEORY
- SOC 680 SOCIAL INVESTIGATION

Students are also required to take an addition 6 credit hours of social science research methods from a wide selection of approved courses.

Of the 15 hours of electives, 12 must be sociology courses and 12 must be in the student's area of specialization.

MA students must also pass a comprehensive exam and a "Plan B" second-year paper defense.

<https://soc.as.uky.edu/sociology-graduate-program>

Teaching English as a Second Language, MA

The Department of Modern and Classical Languages, Literatures and Cultures offers a graduate program leading to the M.A. degree in Teaching English as a Second Language - MATESL (36 cr.). The general goal of graduate work in the program is to provide students with a quality teacher education program that will prepare candidates for a satisfying career in language teaching.

Admission Requirements

- Transcript showing a Bachelor's degree with a minimum GPA of 2.75. If applicant has taken graduate courses, a minimum GPA of 3.0 is required.
- Three Letters of Recommendation
- Essay
- TOEFL score: 89 ibt

Degree Requirements

The MA degree requires a total of 36 graduate credit hours, distributed across the required courses below. This course work includes two teaching practica, a supervised internship and the TESL Professional Portfolio.

- TSL 560 LITERACY DEVELOPMENT IN THE ESL CLASSROOM (3 cr.)
- MCL 510 TEACHING METHODS: YOUNG LEARNERS & BEGINNING LEVEL STUDENTS (3cr.)
- TSL 515 ENGLISH LANGUAGE DEVELOPMENT IN THE CONTENT CLASSROOM (3 cr.) Or MCL 665 SECOND LANGUAGE CURRICULUM & ASSESSMENT (3 cr.)
- MCL 517 SECOND LANGUAGE ACQUISITION / LIN 517 SPECIAL TOPICS IN LINGUISTICS (SUBTITLE REQUIRED) (3cr.)
- MCL 575 INTRODUCTION TO LINGUISTICS AND LANGUAGE STRUCTURE (3cr.)
- MCL 610 WORLD LANGUAGE METHODS 9-12 (3 cr.)
- TSL 675 ENGLISH GRAMMAR: ANALYSIS & PEDAGOGY (3 cr.)
- MCL 690 CULTURE, COGNITION, & SECOND LANGUAGE (3 cr.)
- TSL 697 ESL INTERNSHIP (9 cr.)
- One Elective: 500/600 level course from Education, Linguistics or related field (3 cr.)

TESL Website: <https://mcl.as.uky.edu/tesl>

Teaching World Languages, MA

The goal of the Master of Arts in Teaching World Languages (MATWL) program is to prepare the highest quality language educators for the state of Kentucky and beyond. The MATWL program is designed to prepare candidates who will possess a high level of content knowledge, excel in pedagogy, and perform as competent professional language educators.

Typical applicants include anyone with a BA from a US institution or the equivalent, teachers who are employed with an emergency certification and second-career professionals as well as teachers seeking professional development.

The MATWL program offers a number of advantages for applicants in that it can be completed in one year or can be extended to multiple years for those who are unable to take the required courses as full-time students. Students complete their coursework with a field internship in a public school where they teach with a cooperating teacher.

The program is offered in the Department of Modern and Classical Languages, Literatures, and Cultures in cooperation with the Department of Hispanic Studies and the College of Education. MATWL graduates can specialize in Arabic, Chinese, French, German, Latin, Japanese, Russian, or Spanish.

Admission Requirements

Applicants for admission must be concurrently approved by the Graduate School and the Teacher Education Program (TEP). Applicants are reviewed by the Director the MATWL Program in consultation with the MATWL Program Faculty Committee.

Candidates seeking admission to the MATWL program must meet the following requirements.

- Language proficiency. Students must demonstrate proficiency in the target language with a rating of at least Advanced Low on the ACTFL Oral Proficiency Interview (Intermediate High for Russian, Chinese, & Arabic). Oral Proficiency Interviews can be taken through ACTFL or by contacting the director to schedule one for a particular language). Candidates must also document a course of study that reflects mastery of language structure, a broad range of modern and classical literature, and the history of the relevant culture(s). Candidates in Latin must document a course of study that reflects mastery of language structure, knowledge of the literature, history, mythology, and culture of ancient Rome and Greece, and proficiency in oral reading.
- Undergraduate BA in the Language of study. Documentation of such a course of study typically consists of an undergraduate major in a world language or equivalent. Although each language area has its unique requirements, candidates typically have 48 to 66 credit hours in their academic teaching specialties.
- A minimum 2.75 overall undergraduate GPA, a minimum 3.0 GPA in the language-specific field, and a minimum 3.0 GPA in any previous graduate work
- A passing GRE Score. Quantitative: 143; Verbal 150; Analytical Writing: 4.0
- 200 hours of experience with children 6 to 13 years of age and 14- to 18-year old adolescents as well as community and cross-cultural experience.

Degree Requirements

Total credit hours: 36 credit hours

Core requirements. Students take the following courses.

- MCL 510 TEACHING METHODS: YOUNG LEARNERS & BEGINNING LEVEL STUDENTS (3 credits)
- MCL 610 WORLD LANGUAGE METHODS 9-12 (3 credits)
- EDC 610 DISCIPLINE AND CLASSROOM MANAGEMENT (3 credits)
- EDS 600 SURVEY OF SPECIAL EDUCATION (3 credits)
- MCL 690 CULTURE, COGNITION, & SECOND LANGUAGE or an EDP course at the 500- or 600-level (3 credits)
- MCL 601 WORLD LANGUAGE TEACHING INTERNSHIP P-12 (12 credits)
- Students also take 3 courses (9 credits) of their specialty language at the graduate level. These are generally taken in the Fall of their first semester.
- Students complete their student teaching (MCL 601 Teaching Internship) in two placements-one at the elementary level, and one at the 6-12 level-at local schools in the Spring semester.

<https://mcl.as.uky.edu/matwl>

Master of Arts in Counseling

Counselor Education, MAC

Graduates of this program receive a Master of Arts in Counseling (M.A.C) in Counselor Education with a specialty in either Clinical Mental Health Counseling or Rehabilitation Counseling. Our program is approved by the Kentucky Council on Higher Education and is the only Master's program in Rehabilitation Counseling in the Commonwealth. We are also proud to have nationally recognized faculty within a program that has been consistently ranked in the top ten rehabilitation counseling programs in the country by U.S. News and World Report.

Delivery Method: Online (No residency requirement)

Admission Requirements

- An undergraduate G.P.A. of 2.75 or higher, or a graduate GPA of at least 3.00
- CV/Resume
- Official transcripts
- A personal interview with program faculty

- Three references indicating appropriateness of student for the program
- A written statement indicating interest in and goals for the degree program
- GRE scores are not required

Degree Requirements

Course Work

Both specialty areas in Rehabilitation Counseling and Clinical Mental Health Counseling require the completion of 60-credit hours of graduate work in the appropriate specialty area. Both specialties require 43 hours from the core curriculum and 17 credit hours of electives specialization courses. Students in the Rehabilitation Counseling specialty area may complete the Certified Rehabilitation Counselor Examination in lieu of a program final. Any student who does not take a national certifying exam will be required to take a 100-question multiple choice test that will cover the same content.

Field Work

Practicum (3 credit hours): a supervised practicum experience of 200 hours

Internship (9 credit hours): a supervised internship experience of 600 hours

CED 710 must be successfully completed to advance to CED 730 (NOTE: CED 710 and CED 730 are taught over 12 weeks in the summer semester)

Certification in Rehabilitation Counseling

Students interested in achieving the Certified Rehabilitation Counselor (CRC) credential should visit the Commission on Rehabilitation Counseling Certification website to learn more and keep up-to-date with pertinent deadlines.

Professional Counselor Licensure

Licensing in professional counseling is a state-specific credential. UK provides information about licensure in various states through UK Online. Students should also visit their state's licensure board website to ensure that our curriculum will meet the requirements for licensure.

Master of Arts in Education

Education - Literacy, MAEDU

Completion of the Master of Arts in Education with Literacy specialization fulfills the academic requirements for teacher certification as a P-12 literacy specialist within the Commonwealth of Kentucky. In addition to certification as a literacy specialist, successful degree completion can lead to rank change (Rank I or Rank II) within Kentucky's classification of teachers. The Literacy Specialist Endorsement P-12 with Master of Arts in Education program offers a variety of graduate-level courses, field experiences in local schools, and

research opportunities with faculty. The combination of these classroom and experiential activities result in graduates who are prepared for the literacy challenges they may face in educational and community contexts. The program is delivered in a variety of formats including via distance learning, hybrid, and face-to-face courses.

Admission Requirements

Applicants are evaluated holistically, with attention paid to prior educational achievement and professional experience. In addition to the admission requirements set by the Graduate School, departmental requirements include a statement of professional goals, an autobiographical sketch, professional writing samples, and three letters of professional reference. Interviews are frequently requested. Applicants wishing to obtain teacher certification as a literacy specialist must already possess initial teacher certification. All materials may be submitted through The Graduate School's online application process.

Degree Requirements

The master's degree program requires 33 credit hours of coursework. Students may elect to complete a Plan A (thesis) or Plan B (non-thesis) option within the program. Curriculum plans for both Plan A and Plan B options may be found at this link: <https://education.uky.edu/edc/wp-content/uploads/sites/2/2017/08/Literacy-Specialist-Curriculum-Contract-Nov-2-2015-protected.pdf>

Plan A (thesis) students must successfully defend a thesis for program completion. Plan B (non-thesis) students must successfully defend a professional portfolio to complete the program.

Students in the Literacy program may elect to add a graduate certificate, such as the departmental certificate in Teaching in Culturally & Linguistically Diverse Classrooms, along with their required coursework. This certificate may result in additional credit requirements.

<https://education.uky.edu/edc/literacy/ma/>

Education - Secondary Education, MAEDU

The Master of Arts in Secondary Education with Initial Certification (MIC) is an intensive one calendar-year program which leads to both a master's degree and initial teacher certification for secondary education in Kentucky. The MIC may be pursued in one of two subject areas: English Education or Social Studies Education. This program is designed for students with a completed bachelor's degree in a content field in one of the following areas: English, history, a social science, or in secondary education. Students not having a degree in one of the above areas may be required to complete additional course work.

Specializations available:

- English Education

- Social Studies Education

Admission Requirements

In addition to the admission requirements set by the Graduate School, students must be admitted to the University of Kentucky's Teacher Education Program. That process involves compliance with admission requirements of the Kentucky Education Professional Standards Board (EPSB). Students meet state initial certification requirements while completing degree requirements. These requirements include:

- Cumulative undergraduate GPA of 2.75 or greater
- GPA of 2.75 or greater in major, minor, and support courses
- Minimum GRE scores: 150 (verbal), 143 (quantitative), and 4.0 (analytical).
- If students do not meet one or more of these cutoff scores, they may take the equivalent portion of the PRAXIS Core Academic Skills Test instead of retaking the GRE. The minimum PRAXIS scores for admission to the MIC are 156 (Reading), 150 (Math), and 162 (Writing).
- Resume
- Personal statement
- Writing sample
- Three letters of recommendation
- Students may need to complete additional undergraduate coursework to meet degree and certification requirements. Consult the MIC Director for specific information regarding degree requirements and the dual application process.

Degree Requirements

The master's degree program requires 31 credit hours of coursework, which includes one semester of student teaching.

Specific course requirements for English Education may be found here: <https://education.uky.edu/edc-programs/secondary-english-mic/>

Specific course requirements for Social Studies Education may be found here: <https://education.uky.edu/edc/mic/social-studies/>

Information on the overall MIC program may be found here: <https://education.uky.edu/edc/mic/>

Orientation and Mobility, MAEDU

The Department of Early Childhood, Special Education, & Counselor Education offers a Master of Arts Program in Orientation and Mobility (O&M). The program uses a hybrid course delivery model, including both face-to-face and on-line courses. Face-to-face courses occur on weekends and in the summer at either the Kentucky School for the Blind (KSB) in Louisville or at the University of Kentucky in Lexington.

The O&M program prepares individuals to provide instruction related to knowledge and skills for independent travel for children and adults with visual impairments, including those with additional disabilities. These professionals teach topics including: the use of canes and dog guides, independent travel skills, sensory and motor development, and advanced travel in complex environments.

The University of Kentucky has the distinction of offering the only O&M program in Kentucky.

Admission Requirements

Applicants must have completed a bachelor's degree in any field with a minimum of 2.75 overall or 3.0 GPA in the last 30 credit hours to apply.

Applications must include the following:

- Resume/CV
- Personal Statement (1-2 pages on why you want to be an O&M specialist)
- Official transcripts from all previous universities or colleges
- Three (3) completed reference forms or letters

Applications are accepted in the spring on even years for a fall semester start of that year.

Degree Requirements

Prerequisite Coursework (see program website for more information on transfer courses and concurrent enrollment)

- BVI 580 INTRODUCTION TO VISUAL IMPAIRMENTS (3)
- BVI 582 ANATOMY AND PHYSIOLOGY OF THE EYE (3)
- BVI 583 BRAILLE CODES I (3)

30 credit hours with an overall GPA of 3.0

- CED 525 HUMAN GROWTH, DISABILITY, AND DEVELOPMENT ACROSS THE LIFESPAN (3)
- BVI 620 FOUNDATIONS OF ORIENTATION AND MOBILITY (3)
- BVI 621 INTRODUCTION TO SKILLS AND TECHNIQUES IN ORIENTATION AND MOBILITY (2)

- BVI 622 ADVANCED SKILLS AND TECHNIQUES IN ORIENTATION AND MOBILITY (2)
- BVI 623 ORIENTATION AND MOBILITY FOR CHILDREN (3)
- BVI 624 TECHNOLOGY IN ORIENTATION & MOBILITY (1)
- BVI 626 METHODS IN ORIENTATION AND MOBILITY (3)
- BVI 627 ORIENTATION AND MOBILITY FOR INDIVIDUALS WITH COMPLEX NEEDS (3)
- BVI 628 ASSESSMENT IN ORIENTATION AND MOBILITY (3)
- BVI 629 PRACTICUM IN ORIENTATION AND MOBILITY (1)
- BVI 720 INTERNSHIP IN ORIENTATION AND MOBILITY (6)

Successful completion of practicum and internship

- Refer to program website for specific requirements

Satisfactory demonstration of all program standards

Program website: <https://www.uky.edu/academics/masters/orientation-and-mobility-graduate>

Master of Arts in Interior Design

Interiors: Planning/Strategy/Design, MAIND

The graduate program in the School of Interiors leads to a post-professional Master of Arts in Interiors: Planning/Strategy/Design. Students undertake a combination of course work, independent study, and research experience to develop a course of study designed to meet each student's career interests. Courses from within and outside the discipline cultivate interdisciplinary design thinking. Using design-related scholarship/research and creative approaches, students engage in an investigative process leading to an area of design specialization. Each student works with an advising committee in the selection of a written thesis or a design thesis project option and the appropriate courses at the 500, 600, and 700 levels. Applicants that have an undergraduate degree in interior design or a related professional subject matter normally complete the program in two years. Supplementary course work may be required of applicants without professional undergraduate interior design degrees.

Admission Requirements

Potential graduate students must:

1. Apply and be accepted to the Graduate School.
2. Have been granted a baccalaureate degree by an accredited institution with a minimum 3.0 GPA on a 4.0 scale (2.75-3.0 GPA will be considered in relation to other credentials).

3. Have taken the Graduate Record Examination (GRE). For a non-English speaking student, a TOEFL score of 550 or above is required (or a score of 213 on the computer version of TOEFL).

4. After admittance to the Graduate School, apply and be accepted by the School of Interiors

To be reviewed by the school, apply to the graduate program in the School of Interiors through the portal provided by the Graduate School. As part of your application, students will write a personal statement articulating why they wish to study interiors, including career goal aspirations. Additionally, three letters of recommendation regarding academic ability must be included. Students must submit a portfolio to be reviewed and evaluated by a faculty committee. The portfolio may be submitted digitally. If you would like further information on the program, contact the Director.

Degree Requirements

Students undertake the Master of Arts in Interiors with either a Plan A and Plan B option. The thesis option (Plan A) requires 24 hours of course work, six hours of Master's residence credit, and a written thesis with a research emphasis. Plan B requires completion of 30 credit hours, including six hours of ID 700, in which a student develops a design thesis project that engages in innovative problem-solving focusing on the student's area of specialization. A common core of twelve hours, comprised of ID 650, ID 655, and ID 659, is required of all students. Students complete twelve credits of additional course work in the area of concentration. Students must successfully complete a final examination in the form of a thesis defense, which is required for graduation.

Master of Arts in Teaching

Secondary STEM Education, MAT

The MAT in Education will provide candidates interested in teaching secondary STEM disciplines with a Master of Arts in Teaching (MAT), allowing you to teach appropriate courses in grades 8-12. You will need an undergraduate degree (or recognized equivalent) in the STEM discipline to be admitted. This program is designed as a hybrid online/on-campus format and gives students two pathway options: one-year pathway and two-year pathway. Additionally, you will need to have passed the GRE or equivalent Praxis exams. The program follows a clinical model and provides student with ample practical experience with a sequence of university research / industry externships, diverse field placements, and student teaching. Students will need to successfully complete the Praxis exam in their area of certification, as well as the Principles of Learning and Teaching (PLT) Praxis. The remaining exit requirements for program completion include a passing mark on the master's exam and completion of an online portfolio of key assignments tagged with accompanying standards. Meeting the exit requirements will result in an approval for certification to accompany the approval to receive the master's degree.

Admission Requirements

Admission to the MAT in STEM Education program requires completion of a bachelor's degree in a STEM field from an accredited institution of higher education. The applicant must have passing GRE scores or equivalent Praxis test, GPA of at least 2.75 at the undergraduate level, transcripts from previous institutions, a statement of career goals, and three letters of recommendation. The TOEFL is required for

students in which English is not their first language. Once the application has been reviewed, applicants will be required to participate in an impromptu writing sample and interview with STEM Education faculty before a final admission decision is determined.

Degree Requirements

Once admitted, you will be required to attain 31 credits. The required coursework will include a sequence of methods / seminar classes, as well as classes in core education areas such as educational psychology, special education, education policy, literacy, and assessment. Students in this program will also need to complete six elective credits from options within the College of Education or the College of Arts & Sciences, to be approved by the appropriate program chair.

<https://education.uky.edu/stem/graduate/mat/>

Master of Business Administration

Business Administration, MBA

Gatton's One Year option is an intensive, cross-disciplinary, hands-on experience that will prepare you to be a leader in business and the community. Our curriculum incorporates a number of the core business processes, including marketing, management, and finance; as well as the more technical business courses such as accounting, quantitative analysis, operations management (supply chain), global management, and data analysis. Additionally, you will cover those critical areas that the corporate world values; including leadership, communication and presentation skills, ethics, and strategic thinking. All of this takes place in highly interactive, action-based courses and learning laboratories situated in the corporate setting through Project Connect a built-in internship in which MBA student teams consult with regional companies.

The Professional Evening M.B.A. program is designed for working professionals seeking to improve their business acumen and expand their soft skills. Modeled by the more traditional learning environment, evening students will study with first-rate professors who are leaders in their fields. In as little as two years, a student in the Professional Evening M.B.A. program will graduate with an advanced degree designed to broaden and enhance their skill set in order to be more competitive in the business world.

Options and Concentrations

- **Dual Degrees**

B.S. in Engineering/M.B.A.

<https://gatton.uky.edu/programs/mba/programs/dual-degrees/engineeringmba>

An opportunity to study for an M.B.A. degree while pursuing a Bachelor of Science in Engineering degree is offered to eligible students admitted to the College of Engineering.

J.D./M.B.A.

<https://gatton.uky.edu/programs/mba/programs/dual-degrees/jdmba>

The College of Business and Economics and the College of Law offer the opportunity to obtain the Master of Business Administration(M.B.A.) and Juris Doctor(J.D.) degrees in a dual degree program. Because both schools recognize that some aspects of business and law are compatible and interrelated, students can obtain both degrees in less time than if the degrees were pursued separately. Students interested in the J.D./M.B.A. program must apply to both the College of Law and the Graduate School. These students may enroll in either the One Year or Professional Evening programs.

M.D./M.B.A.

<https://gatton.uky.edu/programs/mba/programs/dual-degrees/mdmba>

Through an agreement with the College of Medicine, the Gatton College admits eligible students to pursue the M.B.A. degree jointly with the M.D. degree. Students interested in this program must apply to the College of Medicine and to the Graduate School. Students interested in the joint degree will enroll in the MBA program between their second and third year or third and fourth year of Medical School.

Pharm.D./M.B.A.

<https://gatton.uky.edu/programs/mba/programs/dual-degrees/pharmdmba>

Through an agreement with the College of Pharmacy, the Gatton College admits eligible students to pursue the M.B.A. degree jointly with the Pharm.D. degree. Students interested in this program must apply to the College of Pharmacy and to the Graduate School. Students interested in the joint degree will enroll in the Professional Evening program between their first and second year of Pharmacy School.

- **Concentrations**

- **Professional MBA (For Leaders in Healthcare) Concentration**

- <https://gatton.uky.edu/programs/mba/programs/professional-mba-leaders-healthcare>

- **Entrepreneurship and New venture Creation Concentration**

- <https://gatton.uky.edu/programs/mba/programs/one-year-mba/entrepreneurship-and-new-venture-creation-concentration>

Admission Requirements

- Application for Admission Students who wish to apply for admission to the M.B.A. program in the Gatton College of Business and Economics should submit an online application to the Graduate School.
- Prerequisites for the M.B.A. program include undergraduate accounting and economic courses. These prerequisites can be satisfied as listed below. Prerequisites may be satisfied by:
 1. Passing the required courses (ACC201 and ACC202, ECO201 and ECO202) at the University of Kentucky
 2. Passing the similar courses at another accredited university, including KCTCS

3. Passing college-level proficiency (CLEP) examinations

4. Any approved economics and accounting equivalent preparation that is approved by the MBA program.

In addition to satisfying required course prerequisites, applicants must also meet the Graduate School requirements, <https://gradschool.uky.edu/admissions>. Meeting the minimum Graduate School requirements does not guarantee admission to the MBA program. While submission of the GRE/GMAT is required, interested candidates for all MBA program may request a review of a potential test waiver from the MBA Admission Committee, <https://gatton.uky.edu/programs/mba/admissions/gmatgre-waiver-policy>.

Degree Requirements

- **One Year MBA Program:** 51 credit hours

DIS 651 QUANTITATIVE ANALYSIS IN BUSINESS DECISION MAKING (3)

ECO 610 MANAGERIAL ECONOMICS (3)

MGT 697 LEADERSHIP, COMMUNICATIONS & ETHICS (3)

MBA 630 PROFESSIONAL DEVELOPMENT (1)

MBA 640 PROJECT CONNECT I (4)

ACC 628 FINANCIAL/MANAGERIAL ACCOUNTING (3)

MKT 600 MARKETING MANAGEMENT (3)

MGT 610 GLOBAL MANAGEMENT (3)

FIN 600 CORPORATE FINANCIAL POLICY (3)

MBA 642 PROJECT CONNECT II (4)

MBA 615 SUPPLY CHAIN STRATEGY (3)

MGT 611 MANAGING EFFECTIVE ORGANIZATIONS (3)

MGT 699 BUSINESS POLICY AND STRATEGY II (Capstone) (3)

Electives* (12)

*A 600-level courses approved by the Director of Graduate Studies

- **Professional Evening MBA Program:** 36 credit hours

Professional Evening MBA Program - 2- or 3-Year Part-time Program

ACC 628 FINANCIAL/MANAGERIAL ACCOUNTING (3)

ECO 610 MANAGERIAL ECONOMICS (3)
MGT 611 MANAGING EFFECTIVE ORGANIZATIONS (3)
FIN 600 CORPORATE FINANCIAL POLICY (3)
DIS 651 QUANTITATIVE ANALYSIS IN BUSINESS DECISION MAKING (3)
MKT 600 MARKETING MANAGEMENT (3)
MBA 615 SUPPLY CHAIN STRATEGY (3)
MGT 610 GLOBAL MANAGEMENT (3) *
MGT 699 BUSINESS POLICY AND STRATEGY II (3)
Electives** (9)

*CPH 600 Health Services and Systems Organizations is used for the Professional MBA (For Leaders in Healthcare) Concentration. For the Entrepreneurship Concentration, MGT 610 is taken out and replaced with one of the entrepreneurship elective classes.

**Any 600-level courses approved by the Director of Graduate Studies Students are required to have a minimum B grade average to graduate. Students receiving two grades of C or one grade of E may be subject to dismissal from the M.B.A. program.

<https://gatton.uky.edu/programs/mba>

Master of Education

Educational Leadership, MED

- The Masters of Educational Leadership (MEd) is a flexible, online degree program designed for educators to advance their careers in leadership of learning systems. The degree consists of 30 credit hours of leadership courses amongst 3 tracks. The courses throughout the program are available online and available to educators both in Kentucky and throughout the world. Kentucky students in the Masters of Educational Leadership may achieve either Rank II or Rank I designations through the Education Professional Standards Board.
- Completion of the Teacher Leadership track leads to a letter of eligibility for the Teacher Leader Endorsement from the Education Professional Standards Board.
- Completion of the Principal track leads to a letter of eligibility for the Advanced Educational Leadership Certification from the Educational Professional Standards Board.
- A general educational leadership track (non-licensure) is also available for students outside Kentucky and those choosing a non-licensure option.

Admission Requirements

- Earned Bachelors, preferably education-based, from a fully accredited institution with a 3.0 GPA on a 4.0 scale.
- Transcripts from previous post-secondary institutions
- Professional Resume
- Personal Statement
- Writing Sample
- (If pursuing licensure) A copy of a valid K-12 teaching certificate.
- (If pursuing licensure) Minimum required years of teaching experience
- (If Principal track) 2 Recommendations, including one from a district-level administrator

Degree Requirements

- 30 Credits, 10 courses, typically earned over 5 semesters including summer.
- Teacher Leader track: 15 credits, 5 Course, Core + 15 credit, 5 course electives.
- Principal track: 24 credits, 8 course, Core + 6 credit electives.
- Portfolio-based capstone final defense

Master of Fine Arts

Art Studio, MFA

The Master of Fine Arts (MFA) degree in Art Studio is the terminal academic degree for studio artists and the required faculty credential for most institutions of higher learning. In addition to being fully qualified to teach at the college-level, MFA graduates will possess the skills to pursue careers in commercial venues or as full-time practicing fine artists. Students enrolled in the MFA program are encouraged to explore inter-disciplinary and cross-disciplinary mediums or concentrate upon a single media dependent upon the direction of their research.

Admission Requirements

While a B.A. or B.F.A. in studio art is the preferred preparatory degree for the M.F.A. program, students from a variety of educational backgrounds may apply. The determinate factor in admittance to the program will be the quality of the submitted artwork.

Application Procedures

The Graduate School, which is the administrative unit for all graduate students, and the Art Studio graduate program, which is responsible for the academic curriculum, require different application materials.

Application for admission to the Graduate School requires:

- A completed application form for the Graduate School (on-line application form available at <http://gradschool.uky.edu>).
- One official transcript from all institutions previously attended.
- TOEFL scores and/or IELTS scores if an international student.
- Application fee.
- An electronic portfolio of 20 recent artworks sent as a .pdf with an image key with title, date, size, and medium for each submitted work as part of that document. (maximum resolution 8" x 10" x 72 dpi - NO PowerPoint presentations). This portfolio is to be uploaded as one document under the "Portfolio"; submission button. If your files are too large, please resize them. If sending timebased materials (such as video), please include a link to your work on a website such as vimeo, personal site, or YouTube.
- A brief letter stating your goals for graduate study and your interest in being considered for an assistantship, fellowship, and or internship and can be uploaded using the "Personal Statement" submission button. A writing sample is not required ignore the prompt.
- A brief resumé uploaded via the CV submission prompt
- Three letters of recommendation

Degree Requirements

The M.F.A. degree will be awarded on the completion of 60 hours of graduate course work. Of these, 30 hours must be at or above the 600 level and 40 hours must be in regularly scheduled graduate courses (excludes the following course types: research, independent study, practicum, residency):

Requirements:

- Art Studio - Students must take a minimum of 33 credit hours of Art Studio courses including A-S 793 GRADUATE STUDIO SEMINAR required of M.F.A. candidates every fall semester of their residency.
- Art History - Students must take a minimum of 9 credit hours of Art History including three hours of A-H 650 ADVANCED CONTEMPORARY ART HISTORY.
- Gallery Practicum - Students must take A-H 502 MUSEUM STUDIES II: INTERNSHIP.
- MFA Thesis - A total of 6 credits of A-S 799 M.F.A. STUDIO THESIS PROJECT are required for the preparation and successful completion of a final one-person M.F.A. exhibition of studio work.

Other Requirements

- Up to 9 credit hours in related graduate courses may be taken outside the School of Art and Visual Studies or elsewhere in the University.
- A foreign language is not required, and the M.F.A. degree is offered only according to Plan B.

Creative Writing, MFA

The two-year MFA program in Creative Writing in the University of Kentucky English department provides a strong basis in mastering the tools of imaginative writing, from poetry to fiction to creative nonfiction. Situated in historic Lexington and surrounded by the awesomeness of thoroughbred horse farms and bourbon distilleries, the University enjoys a rich literary heritage dating back to 1947, when Pulitzer Prize-winning novelist A.B. Guthrie first offered courses in fiction. Graduates of the English Department include Gurney Norman, Frank X Walker, Bobbie Ann Mason, Rebecca Gayle Howell, Wendell Berry, Kayla Rae Whitaker, Maurice Manning, Bianca Spriggs, Patrick O'Keefe, Holly Goddard Jones, and James Baker Hall. The MFA Program in Creative Writing builds upon that rich history by offering students access to a diverse faculty in fiction, poetry, and creative non-fiction. With rare exceptions, all MFA students are funded through TAships.

MFA candidates take both workshop and craft courses during their tenure. In addition, students can draw on the expertise of a faculty of 41 professors, including a distinguished roster of ten professors of creative writing.

Admission Requirements

Students eligible for the MA program must have:

- A UGPA of at least 2.75 on a 4.0 scale. Unofficial transcripts from all attended institutions are required. If the student is admitted and accepts, the graduate school will require all official transcripts. University of Kentucky graduates should note their degrees on the application but are not required to submit transcripts.
- Three letters of recommendation, preferably from faculty familiar with the student's strengths and interests.
- A statement of purpose of no more than two pages that outlines what interests the student has in pursuing the MFA.
- A writing sample of approximately 20 pages that demonstrates the student's strengths as a writer.
- A CV or resume.
- As of fall 2021, neither the general GRE nor the subject test in English is a required component of a student's application.

Degree Requirements

MFA candidates must:

- Take 30 hours of coursework, including:
 - 12 hours of ENG 607 GRADUATE WRITING WORKSHOP (SUBTITLE REQUIRED)
 - 6 hours of ENG 608 CRAFT OF WRITING: (SUBTITLE REQUIRED)
 - 3 hours of any English graduate course at the 600 or 700 level
 - 3+ hours of the student's choice of any additional course at the 600 or 700 level or (outside the English department) at the 400G level or above.
 - Up to 6 hours of ENG 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE or an additional 6 hours of graduate coursework
- Write a thesis consisting of a substantial body of original writing. Both are required for successful completion of the MFA degree. The thesis should be over 120 pages of fiction (short stories, novella or novel) or non-fiction, or a collection of approximately 48 poems.
- Form a committee of three faculty members chosen by the student and approved by the Director of Creative Writing.
- Defend the thesis in a 90-minute oral examination.

Curatorial Studies, MFA

The Master of Fine Arts in Curatorial Studies at the School of Art & Visual Studies (SA/VS) prepares students for careers in the expanding field of curatorial practice. As the first three-year hybrid (online and residency) MFA in Curatorial Studies in the United States, this practice-based terminal degree uniquely equips graduates for careers in a variety of arts organizations, as well as teaching positions at the college level. Through internships, online courses, and residential seminars, students gain a solid foundation in the history and theory of curatorial practice, as well as practical experience in exhibition development, design, and implementation. With courses in art history, art studio, art education, and arts administration, among others, it offers a dynamic interdisciplinary degree that prepares graduates to be highly competitive in a diverse job market. Courses will be selected in consultation with the Graduate Advisor to take full advantage of the multiple approaches, expertise, and insights of the faculty

Admission Requirements

Applicants from a range of educational backgrounds may earn a MFA in Curatorial Studies. However, those without an undergraduate degree in Art History, Studio Art, Art Education, or Arts Administration should consult with the curatorial studies Graduate Advisor before applying. The program attracts a highly competitive pool of national and international applicants-many of whom already have some curatorial experience. All admissions will be reviewed by the program's Graduate Advisor along with a multidisciplinary committee comprised of faculty from art education, art history, and art studio. The requirements otherwise conform to UK general requirements for Graduate School admission.

Application Procedures

The Graduate School, which is the administrative unit for all graduate students, and the Curatorial Studies graduate program, which is responsible for the academic curriculum, require different application materials. Application materials for admission to the Graduate School include:

- Application form
- Copies of transcripts from all higher education institutions previously attended, which should be uploaded on the appropriate location of the online application. Domestic students are to self-report GPAs for each institution attended. (Tip: Convert transcripts on colored paper to white with black ink so as not to exceed the megabyte limitation on the online form.)
- TOEFL scores and/or IELTS scores if an international student.

Application materials for the Curatorial Studies graduate program are also to be submitted online on the graduate admissions application and include:

- Brief résumé.
- A statement of purpose
- Sample of research writing (such as an undergraduate research paper or exhibition catalogue essay) or a digital portfolio (if the candidate holds a BA, BFA, or MFA degree in art studio or art education). If an applicant has prior work experience in the field, they may also include documentation of curatorial work along with their writing sample (installation shots, press releases, etc.). Be careful not to exceed the megabyte limitation on the online form.
- Contact information in the form of email addresses for three recommenders who will be notified to submit their recommendations electronically to the online system.

Application Deadlines January 1 - for all applicants, including those requesting a teaching assistantship. Students who want an assistantship should send a separate letter that indicates their interest in being considered either by e-mail attachment or in hardcopy form to the Graduate Advisor in Art History & Visual Studies, School of Art & Visual Studies, 236 Bolivar Street, University of Kentucky, Lexington, KY 40506-0090.

Degree Requirements

The MFA degree will be awarded on the completion of 60 credit hours of graduate course work. Of these, 42 credit hours are "program core" required courses (18 hours of which are guided internships). The remaining 18 credit hours are electives (9 hours of "guided electives" in Arts Administration, and 9 "free electives" that relate to the student's specific area of interest within curatorial studies).

Requirements

Program Core - Students are required to take the following courses (at number of credit hours specified):

- ART 504 CURATORIAL PRACTICE: HISTORY, THEORY, PRACTICE (3 hours)
- ART 604 CURATORIAL PRACTICE: CURATORIAL PROJECTS (3 hours)
- ART 768 THESIS PREPARATION AND PRESENTATION (6 hours)
- ART 794 INTERNSHIP: BOLIVAR GALLERY (3 hours)

- ART 795 INTERNSHIP: UK ART MUSEUM (3 hours)
- ART 796 INTERNSHIP: COMMUNITY PARTNERS (6 hours)
- ART 797 INTERNSHIP: ARTS ORGANIZATION (6 hours)
- A-H 504/A-H 604 PRACTICAL PROBLEMS IN ART HISTORY: (SR) (3 hours)
- A-H 650 ADVANCED CONTEMPORARY ART HISTORY 3 hours)
- A-E 550 COMMUNITY ART EDUCATION/A-E 560 MUSEUM EDUCATION (3 hours)
- A-S 793 GRADUATE STUDIO SEMINAR (3 hours)

Guided Electives - Students are required to 9 credit hours of electives in the Department of Arts Administration, choosing from the following:

- AAD 660 SOCIAL AND CULTURAL ENTREPRENEURIALISM (3 hours)
- AAD 650 THE ARTS AND THE LAW (3 hours)
- AAD 640 PRINCIPLES OF FUNDRAISING (3 hours)
- AAD 630 MARKETING RESEARCH AND PLANNING FOR ARTS ORGANIZATIONS (3 hours)
- AAD 620 MANAGEMENT AND LEADERSHIP IN THE ARTS (3 hours)
- AAD 625 FINANCIAL MGMT FOR ARTS ORGANIZATIONS (3 hours)
- AAD 600 ARTS ADMINISTRATION TECHNOLOGIES (3 hours)
- AAD 565 COMMUNITY ENGAGEMENT IN THE ARTS (3 hours)
- AAD 542 GRANT WRITING FOR NONPROFIT ORGANIZATIONS (3 hours)
- AAD 500 THE ARTS AND ARTISTS IN SOCIETY (3 hours)

Free Electives - Students are required to take 9 credit hours in electives in related areas such as Anthropology, Arts Administration, Art Education, Art History, Art Studio, Film Studies, Historic Preservation, History, Literature, Philosophy, Women's Studies, etc. as determined by consultation with the Graduate Advisor.

Other Requirements

MFA Thesis - The degree requires the successful completion of a final exhibition accompanied by a written document. Students will take 6 hours ART 768 in preparation for curating their thesis exhibition (see "program core"). Additional hours of thesis research may be taken if necessary (ART 748 INDEPENDENT THESIS RESEARCH at 0 hours).

Master of Forensic Toxicology and Analytical Genetics

Forensic Toxicology and Analytical Genetics, MFTAG

As the flagship university in the Commonwealth, the University of Kentucky provides the only Master of Forensic Toxicology and Analytical Genetics (or degree of comparable nature) in the state, and it is only the fifth such professional master's degree in the field of forensics in the nation.

This two-year program has two areas of concentration: one concentration is focused on Forensic Toxicology/Chemistry and the second on Forensic/Analytical Genetics. Through the common core curriculum, students in both concentrations will have foundational information and skill set in advanced forensic science, writing, communication, professionalism, ethics, legal perspectives, and workplace-specific laboratory skills. Through a rigorous targeted finishing curriculum in either concentration, including internship experiences and cognate elective courses, the graduates will be competitive for workforce deployment in the areas of private industry drug testing, private DNA analysis, forensic governmental divisions, and hospital clinical labs. For more information on this program, please visit <https://toxicology.med.uky.edu/tox-professional-master-forensic-toxicology-and-analytical-genetics>

Admission Requirements

Applicants must meet the following requirements for admission to the University of Kentucky Graduate School and the Forensic Toxicology and Analytical Genetics program. An undergraduate bachelor's degree in biology, chemistry, forensic science or a related field of study from an accredited university is preferred. However, students with other bachelor's degrees or the equivalent from an accredited university will be considered if they are judged to be highly competitive and have completed foundational undergraduate courses in chemistry, biology or related fields. A Graduate Record Examination (GRE) score is not required.

More information on how to apply can be found here <http://toxicology.med.uky.edu/tox-admissions-0>

Degree Requirements

Core Courses Required for Both Concentrations

- TOX 800 FUNDAMENTALS IN FORENSIC SCIENCE (4)
- IBS 611 PRACTICAL STATISTICS (2)
- TOX 810 COMMUNICATING IN THE FORENSIC SCIENCE PROFESSION (1)
- TOX 820 PREPARING PROFESSIONALS IN FORENSIC SCIENCE AND ANALYTICAL GENETICS (1)
- TOX 840 FORENSIC SCIENCE STANDARDS AND PRACTICES (3)
- TOX 880 ETHICS AND PROFESSIONAL PRACTICE IN FORENSIC SCIENCE AND ANALYTICAL DNA (3)
- TOX 980 INTERNSHIP IN FORENSIC TOXICOLOGY AND ANALYTICAL GENETICS (6)

Forensic Toxicology/Chemistry Concentration Required Courses

- TOX 663 DRUG METABOLISM AND DISPOSITION (2)
- TOX 860 FORENSIC AND ANALYTICAL TOXICOLOGY (3)
- TOX 920 INSTRUMENTAL TECHNIQUES IN FORENSIC CHEMISTRY (4)
- BCH 401G FUNDAMENTALS OF BIOCHEMISTRY (3)

Forensic/Analytical Genetics Concentration Required Courses

- TOX 830 ADVANCED HUMAN GENETICS (2)
- ABT 461G INTRODUCTION TO POPULATION GENETICS (3)
- IBS 602 MOLECULAR BIOLOGY AND GENETICS (3)
- TOX 910 FORENSIC AND ANALYTICAL DNA (4)
- BCH 401G FUNDAMENTALS OF BIOCHEMISTRY (3)

Electives

- TOX 780 SPECIAL PROBLEMS IN TOXICOLOGY (1-6)
- TOX 790 RESEARCH IN TOXICOLOGY AND CANCER BIOLOGY (1-5)
- MBA 624 ENTREPRENEURSHIP AND MANAGEMENT TECHNOLOGY COMMERCIALIZATION (3)
- PA 651 THE POLICY PROCESS (3)

A suggested curriculum plan can be found here <https://toxicology.med.uky.edu/tox-curriculum-overview-0>

Master of Health Administration

Health Administration, MHA

The Master of Health Administration (MHA) program is offered in the College of Public Health. Its mission is to provide students with critical competencies required to succeed in leadership positions in health systems, hospitals and other complex health-related organizations, and to build a solid foundation for their future career development. The MHA program focuses on preparing students early in their careers for positions that require management and strategic abilities, and places special emphasis on needs and opportunities in healthcare organizations within Kentucky and the region. MHA courses draw on the expertise of faculty from several UK colleges, UK HealthCare, and other healthcare organizations in Kentucky and beyond.

Admission Requirements

- A 3.0 or higher undergraduate grade point average is recommended.
- Official scores on the Graduate Record Examination (GRE) or Graduate Management Admissions Test (GMAT). Verbal and quantitative scores at the 50 percentile or better are recommended.
- Three letters of recommendation (at least one from a faculty member who has taught or supervised the applicant).
- Personal statement
- Official TOEFL scores (international students only).
- Official GRE/ GMAT, TOEFL scores and copies of official transcripts must be submitted by the applicant directly to SOPHAS or HAMPCAS.
- Applicants must also submit a supplemental application to the University of Kentucky's Graduate School; <http://gradschool.uky.edu/welcome-university-kentucky>
- Applicants are encouraged to apply early for all scholarship/financial aid consideration.
- Application deadline for international students March 15th.
- Application deadline for all other applicants is June 30th.
- Admission is competitive and decisions are made on a rolling basis, so applicants are encouraged to apply early.
- Students are admitted only in the fall semester.

Degree Requirements

The total program consists of 50 semester hours at the graduate level. Program completion normally requires two years for a full-time student and four years for part-time students. Students are also required to complete a final integrative master's examination. To be eligible to sit for the final examination, students must have completed or be enrolled in their last semester of coursework and have an overall GPA of 3.0 or better. Students with "I" or "S" grades in credit-bearing classes are not eligible for the final examination.

Program Curriculum

The following curricular requirements are presented as a guide to your matriculation through the program, but depending on previous coursework, there may be changes and alternatives suggested by the MHA Graduate Advisor.

Required Courses

Course Title (Credit Hours)

- CPH 600 HEALTH SERVICES AND SYSTEMS ORGANIZATION (3)
- CPH 605 EPIDEMIOLOGY (3)
- CPH 652 HEALTH FINANCE (3)
- CPH 655 MANAGEMENT ACCOUNTING FOR HEALTH CARE ORGANIZATIONS (3)
- CPH 658 HEALTH ECONOMICS (3)
- CPH 663 INTRODUCTION TO PUBLIC HEALTH PRACTICE AND ADMINISTRATION (1)
- CPH 681 LEGAL ASPECTS OF HEALTHCARE MANAGEMENT (3)
- CPH 682 QUANTITATIVE METHODS FOR HEALTHCARE MANAGEMENT (3)

CPH 683 OPERATIONS MANAGEMENT AND QUALITY IMPROVEMENT (3)

CPH 684 HUMAN RESOURCES MANAGEMENT IN HEALTHCARE (2)

CPH 687 ORGANIZATION THEORY AND BEHAVIOR (3)

CPH 688 INTERNSHIP IN HEALTH ADMINISTRATION (1)

CPH 780 STRATEGIC PLANNING AND MARKETING IN HEALTHCARE (3)

CPH 781 HEALTHCARE ETHICS AND GOVERNANCE (2)

CPH 782 INFORMATION SYSTEMS IN HEALTH CARE (3)

CPH 784 CASE STUDIES IN HEALTH ADMINISTRATION (2)

CPH 785 HEALTH POLICY (3)

CPH 787 INDEPENDENT STUDY IN HEALTH ADMINISTRATION (1)

Electives

Please see your advisor for elective options.

Subtotal: Elective Hours (5)

Total Minimum Hours Required for Degree - 50

Master of Historic Preservation

Historic Preservation, MHP

From historic buildings and archaeological sites to urban neighborhoods and rural landscapes, graduates of the Master of Historic Preservation (MHP) program are actively engaged in the identification, documentation, protection, and sustained use of a broad range of historic and cultural resources. Historic preservation is a complex and interdisciplinary field that requires creative thinking about the relationship between the past, present, and future. It applies the skills of historians, designers, anthropologists, engineers, and many other allied fields to sites of historical meaning and significance. Our graduates work in private practice, at every level of government, and in the non-profit world. The Department of Historic Preservation also offers a graduate certificate in Historic Preservation, which is comprised of two required courses (HP 601 and HP 602), and two additional historic preservation electives.

Admission Requirements

- 1) A baccalaureate degree from an accredited college or university
- 2) A writing sample or demonstration of ability in drawing, drafting, and/or photography
- 3) Three letters of recommendation and a personal essay
- 4) A minimum 2.75 GPA at the undergraduate level
- 5) A minimum of 3.0 GPA for any previous work at the graduate level

Degree Requirements

The MHP program requires successful completion of 48 credit hours, which includes a core, electives, and the successful defense of a final Master's project.

Core:

Students must complete all courses

- HP 601 INTRODUCTION TO HISTORIC PRESERVATION (3)
- HP 602 HISTORIC PRESERVATION LAW (3)
- HP 610 AMERICAN ARCHITECTURE I (3)
- HP 611 AMERICAN ARCHITECTURE II (3)
- HP 612 DOCUMENTATION OF HISTORIC BUILDINGS AND SITES (3)
- HP 613 HISTORICAL STRUCTURAL SYSTEMS AND BUILDING MATERIALS (3)
- HP 614 DOCUMENTATION OF HISTORIC BUILDINGS AND SITES II (3)
- HP 616 HISTORIC PRESERVATION AND DESIGN (3)
- HP 617 HISTORIC PRESERVATION PLANNING (3)
- HP 798 RESEARCH DESIGN (3)
- HP 799 MASTER'S PROJECT (2@3, 6 total)

Electives:

Students are required to take 12 or more credits of electives. The electives may be taken from courses offered within the department, or they may be taken from the offerings of other departments across the university.

- Electives offered by the Department of Historic Preservation include:
- HP 501 SELECTED TOPICS IN HISTORIC PRESERVATION (SUBTITLE REQUIRED) (3)
- HP 510 CULTURAL LANDSCAPES AND HISTORIC PRESERVATION (3)
- HP 511 SUSTAINABLE DEVELOPMENT AND HERITAGE (3)
- HP 609 URBAN REVITALIZATION IN THE UNITED STATES (3)
- HP 615 AMERICAN SETTLEMENT PATTERNS: HISTORY OF LAND DEVELOPMENT (3)
- HP 670 RETHINKING PRESERVATION: ETHICS, PUBLIC POLICY, AND HERITAGE RESOURCES (3)
- HP 671 INTRODUCTION TO CULTURAL RESOURCE MANAGEMENT (3)
- HP 675 ARCHITECTURAL HISTORY FOR PRESERVATION PRACTICE (3)
- HP 676 FIELD METHODS IN HERITAGE CONSERVATION (3)
- HP 699 INTERNSHIP (1-6)
- HP 718 ADAPTIVE REUSE (3)
- HP 720 CASE STUDIES IN PRESERVATION (3)
- HP 721 INTERPRETATION OF HISTORIC BUILDINGS AND SITES (3)

- HP 724 ADVANCED HISTORICAL STRUCTURAL SYSTEMS AND BUILDING MATERIALS CONSERVATION (3)
- HP 748 MASTER'S PROJECT RESEARCH (0)
- HP 750 ARCHITECTURE DESIGN STUDIO (3)
- HP 772 SEMINAR IN HISTORIC PRESERVATION: SUBTITLE REQUIRED (3)
- HP 785 INDEPENDENT STUDY IN HISTORIC PRESERVATION (3)

Master's project:

Students have two options for completing their Master's project.

Option 1 follows the format of a traditional academic thesis. It is an original, student-led project that identifies a research question relevant to the field of historic preservation, applies a research methodology appropriate for the question asked, develops a new dataset or examines existing datasets, and analyzes the data to arrive at a well-supported conclusion.

Option 2 is an independent professional project reflecting the type of work historic preservation practitioners are likely to execute in a professional environment. Examples of this type of project might include exceptionally well-researched and well-written nominations to the National Register of Historic Places, proposals for local historic districts that include resource inventories and design review guidelines, Cultural Landscape Reports and Historic Structure Reports that include resource inventories and management plans, and the like.

<https://design.uky.edu/historic-preservation/>

Master of Music

Music - Composition, MM

The School of Music offers a Master of Music (M.M.) degree in composition. The program currently focuses on traditional composition, but electro-acoustic music is offered as an option and may at some point in the future be offered as a separate program.

Admission Requirements

The applicant for the master's degree is expected to have earned an appropriate undergraduate degree and successfully interview with the composition faculty during the semester prior to admission. Students should submit a portfolio of at least three compositions in a variety of media (traditional and/or electroacoustic). All composition applicants must take the Graduate Entrance Exams in written and aural music theory, and those interested in applying for a teaching assistantship in music theory must also successfully complete an audition-interview with the theory and composition faculty to assess sight-reading, sight-singing, and keyboard fluency. To ensure full consideration, both the exams and the audition-interview should be completed during the audition-weekend period of the semester prior to admission.

[Entrance Requirements](#)

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Entrance exams in Music History and Music Theory (written and aural) are given prior to the course-add deadline at the beginning of the semester to determine whether review classes are necessary in the first semester of study. Students must pass the entrance exams or pass any required review classes with a grade of A or B before accumulating 12 credit hours.

Degree Requirements

General Requirements for Master of Music Degree

At least fifty percent of all course credits must be at the 600 level or above.

Master of Music (Composition)

Prerequisite: Submission of three original compositions (as described in admission requirements).

- Advanced Composition (MUS 673) (4)
- Orchestration (MUS 570 and MUS 571) (4)
- Music History and Literature (6)
- Theory (including a minimum of one course from: MUS 670, MUS 671, MUS 672, or MUS 676) (9)
- Directed Electives (1)
- Thesis Composition (6)

Total (30)

For the Master of Music degree in Composition, an original composition of major proportions or a portfolio of original compositions with a combined total of at least thirty minutes duration, acceptable to the composition-theory faculty and publicly performed, must be submitted with a written document (15 to 25 pages) analyzing the thesis composition or portfolio. The student is responsible for the preparation of legible score and parts, arranging a performance, and/or suitable recordings (if in electroacoustic medium).

Music - Music Education, MM

The School of Music offers the Master of Music (M.M.) with specialty areas in music education (e.g., Instrumental Teaching or Conducting, Choral Teaching or Conducting, and General Music - Dalcroze Eurhythmics or Orff Schulwerk. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Graduate work can count toward Rank changes (Rank II or Rank I). Graduates of the MMME are encouraged to work directly with the Educational Professional Standards Board (EPSB) in Frankfort, Kentucky to enact these changes: <http://www.epsb.ky.gov/mod/page/view.php?id=101>

Admission Requirements

The applicant for the MMME is expected to have earned a bachelor's degree in music or music education.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Applicants for the MMME do not need to audition, but should contact the Division Coordinator to schedule an interview.

Applicants take entrance exams in Music History and Music Theory (written and aural) the week before classes begin to determine whether review classes are necessary in the first semester of study. Students will receive information about scheduling exams from the Director of Graduate Studies. Admission for all degrees is conditional upon passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours.

Degree Requirements

General Requirements for the MMME

- At least half of the minimum requirements for the MMME (e.g., 15 credits) must be in 600- or 700-level courses.
- At least two-thirds of the minimum requirements for the MMME (e.g., 20 credits of the 30-credit minimum) must be in regular courses (not independent studies).
- A maximum of 4 credit hours of MUP (lessons) can apply toward degree requirements.
- Receipt of two grades of C or less can result in dismissal from the program.
- With the approval of the Director of Graduate Studies a student may petition the Graduate School to repeat a graduate class in order to replace a previously lower grade. This option is available only once in any particular degree program.
- For the Master of Music in Music Education, students may choose the thesis option (Plan A), or the non-thesis option which requires taking six hours of additional course work instead of a thesis (Plan B). Students planning to earn a doctorate in Music Education should elect Plan A. A final comprehensive examination is required for each plan.

Music Education - Plan A

Core Requirements: (12)

- MUS 600 RESEARCH I (3)
- MUS 601 FOUNDATIONS IN MUSIC EDUCATION (3)
- Music History and Literature (including MUS 693) (3)
- Music Theory (including MUS 578, MUS 670, MUS 671, or MUS 672) (3)
- Thesis (MUS 768)(6)
- Music Education Electives The student can select any Music Education courses 500 level or above. (6)
- Music Electives The student can select any Music course (MUS or MUP) 500 level or above (e.g., in Performance, Music History, Music Theory, Music Education, Composition). (6)

Total (30)

Music Education - Plan B

Core Requirements: (12)

- MUS 600 RESEARCH I (3)
- MUS 601 FOUNDATIONS IN MUSIC EDUCATION (3)
- Music History and Literature (including MUS 693) (3)
- Music Theory (including MUS 578, MUS 670, MUS 671, MUS 672 or MUS 676) (3)
- Specialized Area of Study (12)
- (The student will select 12 hours from the four areas described below, Instrumental Teaching or Conducting, Choral Teaching or Conducting, and General Music-Dalcroze Eurhythmics or Orff Schulwerk. The student and advisor will determine the general area of emphasis and plan a set of courses which best fulfills the student's needs. Students may mix and match music education courses in their specialized area of study; they do not have to take all the courses listed for each emphasis).
- Music or Education Electives The student can select any music or education courses 500 level or above. (6)

Total (30)

Specialized areas of study for Plan B

INSTRUMENTAL TEACHING OR CONDUCTING EMPHASIS - Band or Orchestra (Student and Advisor choose twelve hours from courses below which would best fulfill the student's needs).

- MUP Applied Performance (maximum of 4 hours) (1-4)
- MUP Secondary Applied (1-2)
- MUS 680 BAND HISTORY AND LITERATURE (3)
- MUS 681 ADVANCED REHEARSAL TECHNIQUES - BAND (3)
- MUS 622 SYMPHONIC LITERATURE (3)
- MUS 662 DALCROZE APPROACH I (3)
- MUP 558 CONDUCTING or MUP 658 CONDUCTING (1-4)
- MUS 684 ADVANCED STRING METHODS AND MATERIALS (3)
- MUS 570 ORCHESTRATION or MUS 571 ORCHESTRATION (2)
- MUS 706 MUSIC LEARNING AND BEHAVIOR (3)
- MUS 766 SEMINAR IN MUSIC EDUCATION (3)
- MUS 664 INCLUSIVE MUSIC PRINCIPLES AND PRACTICES (3)
- MUS 555 SOUNDS OF MUSIC: PSYCHOLOGY & PERCEPTION (3)

CHORAL TEACHING OR CONDUCTING EMPHASIS (Student and Advisor choose twelve hours from courses below which would best fulfill the student's needs).

- MUP Applied Performance (Maximum of 4 hours) (1-4)
- MUS 660 ADVANCED MUSIC EDUCATION METHODS AND MATERIALS (SUBTITLE REQUIRED): Elementary General Music (3)
- MUS 650 MUSIC EDUCATION WORKSHOP (1-3)
- MUS 660 ADVANCED MUSIC EDUCATION METHODS AND MATERIALS (SUBTITLE REQUIRED): Choral Techniques (3)
- MUP 558 CONDUCTING or MUP 658 CONDUCTING (1-4)
- MUS 662 DALCROZE APPROACH I (3)
- MUS 706 MUSIC LEARNING AND BEHAVIOR (3)

- MUS 766 SEMINAR IN MUSIC EDUCATION (3)
- MUS 664 INCLUSIVE MUSIC PRINCIPLES AND PRACTICES (3)
- MUS 555 SOUNDS OF MUSIC: PSYCHOLOGY & PERCEPTION (3)

DALCROZE EURHYTHMICS EMPHASIS (Student and Advisor choose twelve hours from courses below which would best fulfill the student's needs).

- MUS 650 MUSIC EDUCATION WORKSHOP (1-3)
- MUS 662 DALCROZE APPROACH I (3)
- MUS 663 DALCROZE APPROACH II (3)
- MUS 668 DALCROZE APPROACH III (3)
- MUS 669 INDIVIDUAL DALCROZE PROJECT (3)

Completing MUS 662, 663, 668, and 669 and two summers of Dalcroze workshops (no credit required) fulfills the requirement for the Graduate Certificate in Eurhythmics, which is a 12-credit hour program that can be embedded into the MMME. Students who wish to do this need to apply to the UK Graduate School again to enroll in the Graduate Certificate in Eurhythmics.

ORFF SCHULWERK EMPHASIS (Student and Advisor choose twelve hours from courses below which would best fulfill the student's needs).

- MUS 561 ORFF CERTIFICATION: LEVEL I, II, OR III (2-6)
- MUS 560 ORFF SCHULWERK (1-3)
- MUS 666 ADVANCED ORFF SCHULWERK (3)

Completing three summers of Orff Teacher Training Courses (listed as MUS 561, MUS 560, and/or MUS 666) and the capstone course MUS 666 fulfills the requirement for the Graduate Certificate in Orff Schulwerk, which is a 12-credit hour program that can be embedded into the MMME. If students are short on credits, they may enroll in MUS 560 during spring and fall semester to attend Orff workshops or the Orff conference for credit. Students who wish to do this need to apply to the UK Graduate School again to enroll in the Graduate Certificate in Orff Schulwerk.

Students choosing to write a master's thesis may do so by choosing a topic related to Orff Schulwerk for the thesis and completing six hours of Orff Schulwerk and achieving Level Two Orff Certification.

This MM degree with Concentration in Orff Schulwerk is part of the Academic Common Market program recognized in the state of West Virginia. Residents of West Virginia can be charged Kentucky in-state tuition by submitting an application to their State Academic Common Market Coordinator for approval.

Music - Performance, MM

The School of Music offers the Master of Music (M.M.) with specialty areas in performance (including choral or instrumental conducting), composition, sacred music, music therapy, or music education. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The applicant for the master's degree is expected to have earned an appropriate undergraduate degree and successfully audition for the faculty.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Applicants for performance degrees must audition. Some areas require a pre-recorded preliminary audition as part of the screening process. Live auditions should be scheduled by contacting the faculty member in charge of the student's performing area or filling out an audition request form on the School of Music web page.

For performance majors the entrance exams in Music History and Music Theory (written and aural) are given the week before classes begin to determine whether review classes are necessary in the first semester of study. Admission for all degrees is conditional upon either passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours.

Degree Requirements

General Requirements for Master of Music Degree

At least fifty percent of all course credits must be at the 600 level or above.

Master of Music (Performance) General Requirements (see below for area-specific requirements)

Prerequisites: Acceptance by the appropriate faculty of applied music.

- Music Performance (including recital) (9)
- Music History and Literature (6)
- Theory (including a minimum of one course from MUS 670, MUS 671, MUS 672, or MUS 676) (6)
- Directed Electives (9)
- Recital (0)

Total (30)

A minimum of three full semesters, excluding summer sessions, is necessary for an M.M. in Performance. This MM degree program is offered in the following specialty areas: piano, collaborative piano (see below), voice (see below), organ, violin, viola, cello, bass, guitar, flute, oboe, clarinet, saxophone, bassoon, trumpet, horn, trombone, euphonium, tuba, percussion and conducting (choral or instrumental). Wind, string, percussion, and conducting majors must participate in at least one University-sponsored performing organization for two semesters.

Thesis Requirement: For the Master of Music degree in Performance, a public recital acceptable to the faculty is required in lieu of a thesis.

Master of Music (Collaborative Piano)

Degree requirements to be added

Master of Music (Voice Performance)

- Voice Performance (including recital) (9)
- Music History and Literature (must include MUS 623 or MUS 627) (6)
- Theory (including a minimum of one course from MUS 670, MUS 671, MUS 672, or MUS 676) (6)
- Physiology and Functioning of the Singing Voice (MUS 665) (3)
- Materials, Techniques, and Literature of Voice Teaching (MUS 667) (3)
- Advanced Vocal Repertory (MUS 620) (3)

Total (30)

A minimum of three full semesters, excluding summer sessions, is necessary for an M.M. in Performance.

Foreign Language Requirement: Voice Performance majors in the Master of Music are expected to have taken at least one year each of undergraduate level German, French, and Italian (or the equivalent by petition to the Director of Graduate Studies in the School of Music) as a prerequisite for degree study. If deficient, a student must enroll in language courses each semester of study until the deficiency is removed. Language classes must be passed with a letter grade of B or above.

Music Therapy, MM

The School of Music offers the Master of Music (M.M.) with specialty areas in performance (including choral or instrumental conducting), composition, sacred music, music therapy, or music education. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

An undergraduate degree in music therapy (or the equivalent) is required for full admission to the 30-credit hour Master of Music in Music Therapy degree. Additionally, students must hold the MT-BC credential in order to fulfill the requirements of the MM in music therapy. A combined equivalency/master's degree program is available for students without an undergraduate degree in music therapy. Applicants for the combined equivalency/master's degree are expected to have earned an undergraduate degree in music or, at a minimum, a music minor. Students who have earned a music minor should contact the program director prior to applying to the combined equivalency/master's degree program.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music.

In addition to the items required on the Graduate School application, applicants for the MM in Music Therapy must complete the following:

- An interview with the music therapy faculty, during which students will be asked to sing one song while accompanying themselves on guitar and one song while accompanying themselves on piano. Students who have not yet learned to play guitar only sing and play one song with piano accompaniment.
- The specialize Music Therapy entrance exams cover music theory, music history, and music therapy. These three entrance exams are specific to the music therapy area and serve in lieu of the entrance exams used for other degree programs. Applicants should contact the music therapy program director to arrange for an interview and schedule the entrance exams. Admission is conditional upon passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours.
- Information about this exam can be found in the School of Music Graduate Handbook, section 1.11.3:
https://finearts.uky.edu/sites/default/files/Uploads/Documents/graduate_handbook_2020.pdf

Degree Requirements

At least fifty percent of all course credits must be at the 600 level or above.

Equivalency Requirements: Combined equivalency/master's students must have met all AMTA Professional Competencies before finalizing the Master of Music in Music Therapy degree. The number of credits required to complete the equivalency option will vary based on previous courses taken.

All students (both traditional and combined equivalency/master's degree students) must complete the following coursework to finalize the master's degree. Please note: any graduate coursework taken to remediate professional competencies will not count toward the master's degree.

- MUS 600 RESEARCH I (3)
- MUS 633 GRADUATE CLINICAL PLACEMENT IN MUSIC THERAPY (1-3)
- Music Therapy (The student will select 11 hours from the following courses: MUS 630; MUS 631; MUS 633; MUS 664; MUS 706; MUS 730; MUS 732; MUS 770) (11)
- Electives (9) (The student will select 9 hours of electives based on consultation with their academic advisor.)
- MUS 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE (6)

Total (30)

Music, MM

The School of Music offers a Sacred Music emphasis within the Master of Music in Performance program. Requirements for this emphasis are listed below.

The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The applicant for the master's degree is expected to have earned an appropriate undergraduate degree in music (which should involve a performance component) and successfully audition for the faculty.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Applicants for performance degrees must audition. Some areas require a pre-recorded preliminary audition as part of the screening process. Live auditions should be scheduled by contacting the faculty member in charge of the student's performing area or filling out an audition request form on the School of Music web page.

For performance majors the entrance exams in Music History and Music Theory (written and aural) are given the week before classes begin to determine whether review classes are necessary in the first semester of study. For academic degrees, entrance exams and an interview are required of the application process. Specialized exams may be required in certain performance and academic areas. Students should contact the Division Coordinator or Director of Graduate Studies to schedule exams. Admission for all degrees is conditional upon passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours.

Degree Requirements

General Requirements for Master of Music Degree

At least fifty percent of all course credits must be at the 600 level or above. For students in M.M. degrees, entrance exams will be scheduled the week before the first semester of classes to assess competency in music history and music theory. Students who have not passed the entrance exams in music history and/or music theory will be required to take review classes in those areas during the first 12 hours of study.

Master of Music (Sacred Music)

- **UK Requirements: (27)**
- MUS 660 ADVANCED MUSIC EDUCATION METHODS AND MATERIALS (SUBTITLE REQUIRED) (3)
- Music History and Literature (3)
- Music Theory (including a minimum of one course from MUS 670, MUS 671, MUS 672, or MUS 676) (3)
- Ensemble (2)
- Music Education (Choose from MUS 560, MUS 561, MUS 650 or other graduate music education course in consultation with advisor) (3)
- Internship (3)
- Specialized area of study (10)
- **Course work at an accredited seminary or other institution specializing in religious studies (6-9)** (Choose from topics such as Music in Worship, Designing Worship, Congregation, Worship

and Spirituality, Worship and Music in the Liturgical Year, or other courses. Credits must be completed with a grade "B" or above and must be transferred to UK officially prior to graduation)
Total (33)

Specialized areas of study:

Voice or Keyboard (organ or piano)

- MUP 558 CONDUCTING (4)
- Music Performance (Voice or Keyboard) (6 +*)

Choral Conducting

- MUP 558 & MUP 658 Choral Conducting (8)
- Keyboard, MUP 501 or MUP 503 (2)

+ An audition in the performing area (voice, organ, or piano) is required.

* A 15-minute jury before either the voice faculty (for vocal emphasis) or the keyboard faculty (for piano or organ emphasis) is required at the end of the applied study.

Master of Public Administration

Public Administration, MPA

The Master in Public Administration (MPA) program offers a professional degree that prepares students for careers of leadership in public service as analysts and managers in the public, not-for-profit, and private sectors. Students enter the program with diverse academic backgrounds.

The MPA is available residentially (on-campus) and in distance learning (online).

Two dual degree programs are offered:

- a dual JD/MPA program and
- a dual Pharm.D./MPA degree.
- For more information about those programs, see Graduate Admission.

The MPA is also partnered with the following programs for the University Scholars Program:

- BA in Political Science
- Natural Resources and Environmental Science (NRES)
- BA in Agricultural Economics
- Undergraduates at Georgetown College

Admission Requirements

Students applying are expected to have taken MA 109 (College Algebra) or equivalent and ECO 201 (Introduction to microeconomics) or equivalent.

Applicants must be prepared to submit:

- A one-to-three-page statement explaining why you wish to pursue an MPA degree.
- A resume or CV.
- Transcripts from each post-secondary institution that you have attended. They can be unofficial for admission purposes, but official transcripts must be submitted upon enrollment.
 - Minimum of 2.75 GPA on all undergraduate coursework.
 - Minimum of 3.0 GPA on all previous graduate level coursework.
- The e-mail addresses of at least two individuals who have agreed to write a recommendation letter on your behalf. Ideally, at least one letter is from an academic reference.
- GRE or GMAT scores (optional). They can be unofficial for admission purposes, but official scores must be submitted upon enrollment.
- International students will also need English Language test scores.
 - Minimum of 79 on the internet based TOEFL, or
 - Minimum of 6.5 on the IELTS

Degree Requirements

Completion of a minimum of 40 credit hours of graduate work is required:

- An administrative core of 25 credit hours covering the areas of public policy formulation and analysis, public policy economics, organization and management, budgeting, finance, and analytical methods.
 - PA 602 STRATEGIC PLANNING AND ORGANIZATIONAL CHANGE IN THE PUBLIC AND NON- PROFIT SECTORS (3)
 - PA 621 QUANTITATIVE METHODS OF RESEARCH (3)
 - PA 622 PUBLIC PROGRAM EVALUATION (3)
 - PA 623 DECISION ANALYSIS AND SUPPORT SYSTEMS (3)
 - PA 631 PUBLIC FINANCIAL MANAGEMENT (3)
 - PA 642 PUBLIC AND NONPROFIT ORGANIZATION THEORY AND BEHAVIOR (3)
 - PA 651 THE POLICY PROCESS (3)
 - PA 652 PUBLIC POLICY ECONOMICS (3)
 - PA 691 ETHICS AND PUBLIC POLICY (1)
- An area of concentration of 9 credit hours in a stated area of specialization (public financial management, policy analysis, local economic development; non-profit management, environmental management, education policy, health policy, gerontology, international public policy, or transportation systems management) or in an individually designed concentration.
- Capstone Course and Capstone Project PA 681 CAPSTONE IN PUBLIC ADMINISTRATION (3). All students must take the 3-hour capstone class and successfully complete and defend a capstone project developed in that class. The purpose of the course and the project is to integrate the learning experience of the MPA program and apply knowledge and skills acquired in the program to a policy issue or management problem. Oral presentation of the project before a faculty committee serves as the final masters' exam.
- Internship: PA 711 INTERNSHIP IN PUBLIC ADMINISTRATION(3). An administrative internship at an appropriate agency for 400 hours. Students with a significant professional experience may substitute an independent study policy paper, a comparable special project, or an additional graduate course.

<https://martin.uky.edu/master-public-administration>

Master of Public Financial Management

Public Financial Management, MPFM

The Master of Public Financial Management (MPFM) program offers a professional graduate degree that prepares students for careers as professionals in public and non-profit sectors. The program is offered 100% online in an asynchronous format. The MPFM is designed for students with interests in public financial management, public sector accounting and auditing and other unique aspects of public finance. Students enter the program with diverse academic backgrounds and career goals. Courses are offered in 8-week and 4-week sessions. Students enroll in one course at a time and may complete the 36-credit program in two years. The course format and schedule allows working students and those juggling other responsibilities to complete the MPFM in a timely manner.

Admission Requirements

The MPFM application requires 1) a one to three page personal statement explaining interest in the MPFM degree, 2) resume or CV, 3) official transcripts from each post-secondary institution attended, and 4) two letters of recommendation. Applicants are encouraged to have had either an undergraduate course or work experience in accounting prior to admission however it is not a requirement for admission. As an online program, admission includes in-state tuition independent of the student's state of residency. International students also need English Language test scores. Deadlines for the program are the same as the Graduate School admission deadlines. Applications are accepted to the program in the Fall and Spring semesters. Applicants must meet all requirements as defined by the Graduate School including a minimum undergraduate GPA of 2.75. Competitive admission is based on a consideration of the documents listed above including work experience. The final selection of students for admission will be subject to the discretion of the admissions committee of the program.

Degree Requirements

Total credit hours: 36 credit hours

Core Requirements

All students must take the 3-hour capstone class and successfully complete and defend a capstone project developed in that class. The purpose of the course and the project is to integrate the learning experience within the MPFM program and apply knowledge and skills acquired in the program to a policy issue. The presentation of the Capstone project serves as the final Masters exam.

Courses in the MPFM program focus on many aspects of public financial management and are offered in Fall, Spring, and Summer semesters. The following shows the recommended sequence of course offerings by semester. Students may start the MPFM program in either the Fall or Spring semesters however Spring admission requires minor adjustments to the course sequence shown below. Courses are 8-week sessions

unless otherwise indicated. Students may on a limited basis with approval of the Director of Graduate Studies substitute a course if necessary due to scheduling conflicts or other reasons. *Note: The first 4 courses listed below comprise a Graduate Certificate Program that may be taken independently of the full MPFM.*

Fall Year 1

- PA 631 PUBLIC FINANCIAL MANAGEMENT: Budgeting/Debt Management
- PA 632 PUBLIC FUNDS MANAGEMENT: Investments/Cash Management

Spring Year 1

- PA 625 GOVERNMENTAL ACCOUNTING AND FINANCIAL CONDITION ANALYSIS
- PA 627 GOVERNMENTAL AUDIT

Summer Year 1

- PA 626 APPLICATIONS IN GOVERNMENTAL ACCOUNTING AND AUDIT
- PA 696 LEGAL ISSUES IN PUBLIC FINANCIAL MANAGEMENT (4-week)

Fall Year 2

- PA 633 MUNICIPAL SECURITIES
- PA 695 DATA AND REVENUE FORECASTING

Spring Year 2

- PA 683 TAX POLICY
- PA 697 PUBLIC FINANCIAL POLICY ANALYSIS

Summer Year 2

- PA 694 PUBLIC PENSIONS AND INSURANCE (4-week)
- PA 681 CAPSTONE IN PUBLIC ADMINISTRATION (12-week)

For more information, please visit the University of Kentucky Martin School website.

Master of Public Health

Public Health, MPH

A defining characteristic of the area of public health is its focus on population groups rather than individuals. Public health professionals are concerned with the health of communities, relying heavily on collaboration with local, state, and national entities to improve the health status of their targeted populations. With the current interest in health care reform, bioterrorism and preparedness, concerns over managed care, and other factors impacting the nation's health care system, the need for highly trained public health professionals is increasing. The College of Public Health offers the Master of Public Health degree. The MPH is an applied professional/graduate degree designed for highly motivated students who have either a previously earned professional degree or a baccalaureate degree and substantial interest in public health. Unique sequencing of courses, community-based program activities, and field/laboratory research provide students with multiple opportunities to define their course of study in the four areas of concentration, , Epidemiology, Environmental/Occupational Health, Health Behavior, or Health Systems & Policy Analytics. The MPH. degree is designed to prepare graduates for entry and advancement in public health careers in public, non-profit and proprietary health care organizations.

Professionals with the MPH. hold important roles in a variety of public and private settings, e.g., local, state, and national health departments, health care facilities, military service, social service agencies, private industry, universities, and community-centered health education facilities. In these positions, they can be involved directly with the development, implementation and assessment of efforts to improve the health of the public and prevention of disease. The curriculum is designed to provide skills and knowledge upon which to build or enhance a career in public health. Unique sequencing of courses, community-based program activities, and field/laboratory research provide students with multiple opportunities to define their public health specialty and provide a broad overview of the disciplines of public health.

The Master of Public Health degree requires a minimum of 42 credit hours of study for completion. All students must complete a minimum of 18 semester hours of required core course work and at least 18 hours of specialty work in one of the four areas of concentration. In addition, a three credit-hour field practicum course (CPH 609), and a three credit-hour final integrative Capstone Project (CPH 608) are required. The dual MD/MPH. and PharmD/MPH. degrees are currently available.

Admission Requirements

Admission into the MPH program is competitive, and consideration is given to academic background, a history of service, interest in the field, a personal statement, career plans, and letters of recommendation. Applicants must also have achieved an acceptable score on the Graduate Record Examination (GRE) or the Graduate Management Admission test (GMAT). Applicants must complete a UK Graduate School Application and make a separate application through the Schools of Public Health Application Service (SOPHAS.org), the centralized application process for accredited schools/colleges of public health. Applications will not be reviewed until the SOPHAS application is completed. For additional information concerning the University of Kentucky, College of Public Health and its degrees, call (859) 218-2096, send e-mail to ukcph@uky.edu or go to <http://www.uky.edu/publichealth/>

Degree Requirements

The MPH Program is a total of 42-44 graduate-level credit hours. Students are also required to complete a non-thesis option capstone project.

Each student is required to pursue at least one concentration area from the following: Preventative Medicine and Environmental Health, Epidemiology, Health Behavior and Society, Health Systems and Policy Analytics. See concentration requirements for course requirements.

The program curriculum consists of the following core courses, required courses and concentration courses:

MPH Core Courses (required credit hours) - 24 to 25 Total Required Credit Hours

- CPH 663 INTRODUCTION TO PUBLIC HEALTH PRACTICE AND ADMINISTRATION* (1)
- CPH 643 MEASURING HEALTH BEHAVIOR: QUANTITATIVE & QUALITATIVE APPROACHES (3)
- CPH 650 PUBLIC HEALTH SYSTEMS ADMINISTRATION (3)
- CPH 605 EPIDEMIOLOGY (3)
- CPH 603 INTRODUCTION TO DATA ANALYSIS FOR PUBLIC HEALTH (3)
- CPH 621 UNDERSTANDING AND COMMUNICATING ENVIRONMENTAL HEALTH RISKS (3)
- CPH 672 EVIDENCED-BASED PUBLIC HEALTH PLANNING & PRACTICE (3)
- CPH 609 PUBLIC HEALTH PRACTICUM (3)
- CPH 608 PUBLIC HEALTH CAPSTONE (3)

*CPH 663 is NOT required for students who have a Bachelor of Public Health degree from a CEPH accredited program.

Concentration Requirements (required credit hours) - 8 to 19 Total Required Credit Hours

Each student is required to pursue at least one concentration area. Requirements are listed for each concentration below:

Environmental Health Concentration - 18 Required Credit Hours

- CPH 601 ENVIRONMENTAL HEALTH (3)
- CPH 620 OCCUPATIONAL HEALTH (3)
- CPH 622 TOXIC AGENTS AND THEIR IMPLICATIONS IN PUBLIC HEALTH (3)
- Electives (9 credit hours) - See your advisor for a complete list of electives.

Epidemiology Concentration - 18 Required Credit Hours

- CPH 712 ADVANCED EPIDEMIOLOGY (3)
- CPH 660 DISEASE MAPPING & DATA VISUALIZATION (3)

- CPH 612 INFECTIOUS DISEASE EPIDEMIOLOGY (3)
- CPH 615 CANCER EPIDEMIOLOGY (3) or CPH 711 CHRONIC DISEASE EPIDEMIOLOGY (3)
- Electives (6 credit hours) - See your advisor for a complete list of electives.

Health Behavior and Society Concentration - 19 Required Credit Hours

- CPH 604 FOUNDATIONS OF HEALTH BEHAVIOR I (2)
- CPH 674 FOUNDATIONS OF HEALTH BEHAVIOR II (2)
- CPH 648 ELIMINATING RACIAL & ETHNIC HEALTH DISPARITIES (3)
- CPH 746 RESEARCH METHODS AND PROGRAM EVALUATION FOR HEALTH BEHAVIOR (3)
- Electives (9 credit hours) - See your advisor for a complete list of electives.

Health Systems and Policy Analytics - 18 Required Credit Hours

- CPH 600 HEALTH SERVICES AND SYSTEMS ORGANIZATION (3)
- CPH 785 HEALTH POLICY (3)
- CPH 651 POPULATION HEALTH: MEASUREMENT, MANAGEMENT AND IMPROVEMENT (3)
- CPH 634 ANALYTICS METHODS FOR HEALTHCARE DATA (3)
- Electives (6 credit hours) - See your advisor for a complete list of electives.

Master of Public Policy

Public Administration, MPP

The MPP program offers a professional degree that prepares students for careers as professional policy analysts in government and non-profit organizations. Students enter the program with diverse academic backgrounds, but should have taken statistics, calculus, and intermediate microeconomics.

Admission Requirements

- A one-to-three page statement explaining why you wish to pursue an MPA degree.
- A resume or CV.
- Transcripts from each post-secondary institution that you have attended. They can be unofficial for admission purposes, but official transcripts must be submitted upon enrollment.
 - Minimum of 2.75 GPA on all undergraduate coursework.
 - Minimum of 3.0 GPA on all previous graduate level coursework.
- The e-mail addresses of at least two individuals who have agreed to write a recommendation letter on your behalf. Ideally, at least one letter is from an academic reference.

- GRE or GMAT scores (required). They can be unofficial for admission purposes, but official scores must be submitted upon enrollment.
- International students will also need English Language test scores.
 - Minimum of 79 on the internet based TOEFL, or
 - Minimum of 6.5 on the IELTS
- Through the University Scholars Program, students in the BA in Public Policy program can begin MPP coursework during their senior year of the undergraduate program. Admission requirements vary for this program - <https://martin.uky.edu/university-scholars-program>.

Degree Requirements

Completion of a minimum of 37 credit hours of graduate work is required.

- An administrative Core of 25 credit hours covering each of the following areas: statistics, public policy formulation and analysis, public policy economics, organization and management, budgeting, finance, and analytical methods.
 - PA 622 PUBLIC PROGRAM EVALUATION (3)
 - PA 624 GOVERNMENT INFORMATION SYSTEMS (3)
 - PA 631 PUBLIC FINANCIAL MANAGEMENT (3)
 - PA 642 PUBLIC AND NONPROFIT ORGANIZATION THEORY AND BEHAVIOR (3)
 - PA 651 THE POLICY PROCESS (3)
 - PA 652 PUBLIC POLICY ECONOMICS (3)
 - PA 690 PUBLIC POLICY ANALYSIS OVERVIEW (3)
 - PA 692 ECONOMETRICS FOR POLICY ANALYSTS (3)
 - PA 795 SPECIAL TOPICS IN PUBLIC ADMINISTRATION (1)
- An additional 3 credit hours of a guided elective in a policy field:
 - PPL 583 TAX POLICY (3), OR
 - PPL 584 ENVIRONMENTAL POLICY (3), OR
 - PPL 575 EDUCATION FINANCE AND POLICY (3)
- An area of concentration of 3 credit hours in an area of specialization. Must be approved by the Director of Graduate Studies-DGS.
- Capstone Course and Capstone Project PA 681 CAPSTONE IN PUBLIC ADMINISTRATION (3). All students must take the 3-hour capstone class and successfully complete and defend a capstone project developed in that class. The purpose of the course and the project is to integrate the learning experience of the MPP program and apply knowledge and skills acquired in the program to a policy issue or management problem. Oral presentation of the project before a faculty committee serves as the final masters' exam.
- Internship: PA 711 INTERNSHIP IN PUBLIC ADMINISTRATION (3). An administrative internship at an appropriate agency for 400 hours. Students with a significant professional experience may substitute an independent study policy paper, a comparable special project, or an additional graduate course.

<https://martin.uky.edu/master-public-policy>

Master of Science

Agricultural Economics, MS

The Department of Agricultural Economics provides programs leading to the degrees of Master of Science and the Doctor of Philosophy. Graduate Faculty in the department provide areas of emphasis in agricultural policy, price analysis, agricultural marketing, agribusiness, farm management, domestic economic development, and production economics. Students must complete a core of courses in agricultural economics, economics and statistics.

Students holding degrees in agricultural economics are employed by academic institutions, local, state, and federal agencies that deal with agriculture, natural resources and economic development; private firms in the agricultural and business sectors; and agencies and governments of foreign countries. These agricultural economists conduct research, develop extension services, teach classes, and serve as managers and administrators in various types of firms and agencies.

Admission Requirements

Students entering the M.S. program are expected to have at least one course in each of the following areas: intermediate microeconomics, calculus, and statistics. An undergraduate degree in economics is advantageous, as is a good background in mathematics. There are no minimum GPA or GRE requirements beyond those of the Graduate School, but such information, along with letters of recommendation, is used qualitatively in the admission decision.

Degree Requirements

The master's program is offered in either Plan A or Plan B. The thesis option (Plan A) requires a minimum of 30 hours of graduate credit, a research thesis and an oral final exam. Plan B requires a minimum of 36 hours of graduate credit and an oral final exam.

Graduate students have considerable flexibility to structure their program with respect to course work and research topics consistent with individual interests. Each student has a major professor and an advisory committee to assist in course work selection and in the thesis and dissertation research.

A graduate handbook is available that provides information regarding program content, degree options and available financial assistance.

Animal and Food Sciences, MS

The degree of Master of Science is available in Animal & Food Sciences. Degree programs in Animal & Food Sciences provide advanced study and are divided into the disciplinary areas of animal nutrition, reproduction, physiology, and food science. Special interests in beef or dairy cattle, horses, poultry, sheep and swine may be pursued within many of these areas. Programs in food science offer specialization in food chemistry, food microbiology, food safety, meat biochemistry, and meat processing.

The MSASC degree is available in two options:

- Plan A: 30 credits, including 6 credits of thesis research, plus a Master's thesis.

- Plan B: 36 credits

Admission Requirements

- Applicants to the Master's program must have completed a four-year degree at an accredited institution of higher education, must have achieved at least a 3.00 GPA for all undergraduate courses, and must submit scores from the verbal, quantitative, and analytical portions of the Graduate Record Exam (GRE). Applicants must have completed; 1 course calculus or physics, 3 courses biology/ physiology, 3 courses chemistry (including 1 organic chemistry or biochemistry). Additional courses in physiology, cell biology, microbiology, and anatomy are encouraged.

Degree Requirements

- ASC 771 ANIMAL SCIENCE SEMINAR Section 1
- ASC 771 ANIMAL SCIENCE SEMINAR Section 2

<http://afs.ca.uky.edu/students/graduate>

Applied Behavior Analysis, MS

The field of Applied Behavior Analysis is the application of the science of behavior to understand and improve human behavior. Our goal is to create a socially significant change in behavior that improves the lives of our clients.

The Master of Science in Applied Behavior Analysis (MS in ABA) is an on-campus degree program that will train graduate students to provide behavior analytic services to individuals with challenging behavior and/or skill deficits. These services are provided through direct care, consultation, support, and training to teachers, staff, parents, and clients. The MS in ABA provides opportunities for graduate students to work within schools, homes, clinics, or related settings with individuals with or at-risk for disabilities (Birth - 21 years of age).

Admission Requirements

1. Applicants must hold a bachelor's degree in psychology, education, special education, social work, communication disorders, or a closely related field.
2. Applicants must have a minimum of a 3.0 undergraduate grade point average or a minimum of 3.25 graduate grade point average.

3. Applicants must secure three (3) letters of recommendations with one related to academic performance (e.g., from professor, advisor) and two related to the applicant's work with children and youth (e.g., from practicum supervisor, research supervisor).
4. Applicants must submit an updated CV (or resume) overviewing their education and experiences.
5. Applicants must submit a writing sample of a scholarly paper (e.g., research paper, literature review completed in APA formatting).
6. Applicants must submit a personal statement describing previous experiences that led to this career goal.
7. Applicants must participate in an interview with program faculty.
8. Upon acceptance, applicants must satisfactorily pass a criminal background check (due to the nature of the work performed by behavior analysts).

Applications are due December 15 for a Fall start.

Degree Requirements

The M.S. in ABA degree is a 42-credit hour program.

The Association for Behavior Analysis International (ABAI) has accepted courses within the MS in ABA program as a verified course sequence. In addition, students in the MS in ABA program will receive required supervision within the practicum setting. The verified course sequence and practicum/supervision requirements will prepare those who complete the MS in ABA to sit for the Board Certified Behavior Analyst (BCBA) examination. More information regarding the BCBA examination and requirements can be found at www.bacb.com.

Core classes include:

- EDS 601 CONCEPTS AND PRINCIPLES OF APPLIED BEHAVIOR ANALYSIS
- EDS 603 BEHAVIORAL CONSULTATION AND SUPERVISION
- EDS 605 ASSESSMENT AND TREATMENT OF SOCIAL AND ADAPTIVE BEHAVIORS
- EDS 612 ADVANCED PRACTICUM: SPECIAL EDUCATION
- EDS 617 PROFESSIONAL ETHICS FOR BEHAVIOR ANALYSTS
- EDS 618 ASSESSMENT AND TREATMENT OF PROBLEM BEHAVIOR
- EDS 630 ADVANCED METHODS FOR TEACHING STUDENTS WITH DISABILITIES
- EDS 633 SINGLE CASE RESEARCH METHODOLOGY
- EDS 660 OVERVIEW OF CHARACTERISTICS AND INSTRUCTIONAL STRATEGIES FOR INDIVIDUALS WITH ASD
- EDS 661 ADVANCED INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH ASD
- EDS 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE PROGRAM

<https://education.uky.edu/edsrc/eds/degrees-programs/aba/>

Athletic Training, MS

Program Mission: The mission of the professional Master of Science in Athletic Training at the University of Kentucky is to effectively prepare entry-level athletic trainers, who are life-long learners and servants to their communities, for employment and/or pursuit of advanced education by providing a comprehensive education in a collaborative, evidence-based, patient-centered environment that includes robust educational, scholarly, clinical, and service opportunities.

For Program Goals and Student Learning Goals, please see the Program website: <https://www.uky.edu/chs/athletic-training/professional/achievement>

Accreditation Information: The University of Kentucky is currently seeking accreditation for their new Athletic Training program and is not accredited by the Commission on Accreditation of Athletic Training Education (CAATE). The institution will be submitting a self-study to begin the accreditation process on July 1, 2021. Submission of the self-study and completion of the site visit in early Spring 2022 does not guarantee the program will become accredited. Students that graduate from the program prior to accreditation WILL NOT be eligible to sit for the credentialing examination for athletic trainers and will not be eligible for licensure in most states.

Most states require athletic trainers to have a state license. License requirements vary by state, but most states require that the BOC national certification be earned. This certification requires graduation from a CAATE accredited program. Due to our accreditation status, it cannot currently be determined whether the Professional M.S. in Athletic Training meets the educational requirements needed to obtain a Kentucky athletic training license. Before enrolling, students should learn more about whether the Athletic Training programs meet licensure requirements in Kentucky and all states where they may be interested in pursuing licensure.

Admission Requirements

Must have a minimum overall GPA >3.0 (out of 4.0)

Must have a minimum grade of C in all prerequisite coursework:

- Biomechanics (3 credits)
- Exercise Physiology (3 credits)
- Human Physiology (3 credits)
- Human Anatomy (3 credits)
 - Can be combined Anatomy and Physiology (I and II, 6 credits total)
- Medical Terminology (1 credit or equivalent)
- Statistics (3 credits)
- Basic Emergency Care/First Aid (1 or more credit on academic transcript OR completion proof of training through other mechanism, e.g. Red Cross)
- Psychology (3 credits)
- Physics (3 credits)
- Biology (3 credits)
- Chemistry (4 credits including lab)

Recommended but not required:

- Introduction to Athletic Training
- Research Methods/Scientific Writing

100 observational hours

- At least 50 completed in common athletic training settings

Personal statement

Three Professional References

Current Basic Life Support (BLS) Certification

Undergraduate students outside of UK must demonstrate progression to graduate prior to the beginning of the Professional Program.

Degree Requirements

REQUIREMENTS TO BE ADDED

Each student must be in good standing with the University of Kentucky Graduate School and the Program. The graduation requirements for the University of Kentucky Graduate School include:

- Complete all academic courses (76 credits) with a grade of C or better
- Have a minimum of 3.0 GPA
- Completion of the Final Comprehensive Examination with a 70% or better

Biology, MS

The Biology Graduate Program offers Doctor of Philosophy and Masters of Science degrees (thesis and non-thesis) in Biology, but doctoral training is strongly emphasized. Master's training is not a prerequisite for admission into our doctoral program. Applicants are selected for admission based on their overall academic record, GRE scores, letters or recommendation, prior research experience, and on their expressed interest in our graduate program training areas or the research of the Biology Department faculty members.

Training

Graduate students are trained through a combination of formal coursework and research experience. Research training consists of work on a research project under the guidance of one or more of our faculty members. The specific research project is chosen in consultation with the faculty mentor and typically is closely related to the research interests of that lab. A one-credit Biology Graduate Student Orientation seminar course is required for all first-year graduate students admitted into the Biology program. All students must complete a set of common requirements for the Biology Graduate Program, including seminar courses, research, a qualifying exam (for Ph.D. candidates), and an exit exam (thesis defense for Ph.D. and Plan A M.S.). Additional coursework depends on the area of specialization and is determined with input from the faculty mentor and student's advisory committee and the training program. The training programs include Environmental and Evolutionary Biology (EEB), Molecular, Cellular and Developmental Biology (MCDB), and Tailored Training (TT).

Environmental and Evolutionary Biology Training Program

The Environmental and Evolutionary Biology group supports education and research on the interactions between organisms and their environment from an evolutionary perspective. This includes the study of micro- and macro-evolutionary processes; the physiological, developmental, and behavioral adaptations of individual organisms; predator-prey, mutualistic, and competitive interactions; and community and ecosystem relationships. Faculty members conduct research exploring both basic underlying principles and

specific applied consequences of ecological interactions. The group's core philosophy is that major advances in understanding how organisms evolve and function in changing ecological systems are achieved in an interactive, interdisciplinary research environment involving diverse conceptual and methodological approaches. Students achieve this through coursework, topical seminars, weekly research seminars, and research projects guided by their major advisor and thesis committee.

Molecular, Cellular and Developmental Biology Training Program

Molecular, Cellular and Developmental Biology (MCDB) training focuses on fundamental cellular and developmental processes such as gene expression, cell proliferation, cell signaling, development, neural function, aging, and behavior. We apply biochemical, genetic, physiological, and molecular techniques to resolve outstanding issues in biology and use a diverse set of experimental organisms (e.g., fungi, cultured cells, and complex animals ranging from the fruit fly to mouse). Entering MCDB students rotate through two different laboratories before selecting a research mentor near the end of the first year of study. Students participate in weekly research and literature seminars and are guided in the selection of other formal course work in order to best prepare for their thesis/dissertation studies. The faculty and students in the MCDB group interact closely with each other, with colleagues elsewhere on our campus, and with scientists worldwide to achieve a stimulating research atmosphere. Our program successfully prepares students for scientific research careers in academic, industrial and governmental settings.

Tailored Training

The Tailored Training program provides great curricular flexibility. The principal difference between Tailored Training and training in the MCDB and EEB programs is that there are no set course requirements, other than the minimum requirements set by the Biology Graduate Program. The mentor and advisory committee work together with the student to customize a curriculum that best suits the needs, interests, and goals of the student. This may be particularly advantageous for students whose primary interests encompass areas outside of or across the other training programs. The curriculum is unique to each student, but not isolating. The student is encouraged to participate in relevant seminars, journal clubs, or other activities attended by students in the MCDB and EEB training programs or in other University graduate training programs. Students admitted through the Tailored Training option enter the Biology Graduate Program directly into the lab of their research mentor. Applicants interested in admission through this mechanism should contact the faculty member with whom they wish to train and also indicate their lab of choice in the Biology application. Faculty members offering Tailored Training will indicate this option on their web pages.

Financial Support

Full financial support is offered to all Ph.D. and Plan A M.S. students accepted for graduate admission; no financial aid application is required. Support may include teaching assistantships and fellowships provided by the university and department, research assistantships offered by faculty mentors, interdisciplinary traineeships and fellowships or extramural research fellowships to individual students.

Admission Requirements

Anyone with a bachelor's degree from an accredited college or university may apply for admission to the Biology Graduate Program at either the MS or Ph.D. levels. Applicants are generally expected to have an undergraduate grade point average of at least 3.0 (out of 4.0), a combined verbal and quantitative Graduate Record Examination score of at least 1100 (old scoring system) or 300 (new scoring system) and, for nonnative English speakers, a TOEFL score of at least 550 on paper-based test or 213 on the computer-based test (CBT) or 79 on internet-based test (IBT). Our GRE institution code is 1837 and Department Code is 0206. We encourage completed applications by January 1 although applications will continue to be reviewed until all positions are filled.

Prerequisite college-level coursework includes one year of physics, two years of chemistry, one semester of calculus, one year of general biology, and upper-level courses providing a working knowledge of contemporary biology. Every student entering the Biology Graduate Program is presented with the Graduate School Bulletin at orientation to familiarize the students with UK Graduate School policy. In addition, each student is provided with a copy of the Rules, Regulations & Policies for the Biology Graduate Program which describes the Departmental rules governing the Biology Graduate Program.

The Biology Graduate Program application is available online. This application and additional information about the Biology Graduate Program can be found at the Program website: <https://bio.as.uky.edu/grad-program>.

Degree Requirements

Requirements to be added.

Chemistry, MS

The Department of Chemistry at the University of Kentucky offers two graduate degrees-the MS and the PhD (doctoral) degree. In the MS degree program, the student has the option of pursuing the MS Plan A, which involves research and a thesis, or the MS Plan B, a non-thesis or coursework-only option. A Master's degree is not a prerequisite for the PhD degree.

Admission Requirements

Four years of chemistry covering the areas of general, organic, physical, and analytical constitute the normal minimum requirement for pursuing graduate work within this Department. Additional prerequisite undergraduate work includes one year of college physics, mathematics through calculus, and training in some foreign language. In special cases, exceptions to these rules may be made by the Director of Graduate Studies and the Graduate Program Committee. An undergraduate grade point average of at least 3.0 (based on a 4-point system) normally shall be required for admission as a graduate student in the Department of Chemistry. The Graduate Program Committee shall, however, be authorized to admit students with averages as low as 2.75, based on such evidence of ability as high GRE scores, recommendations, or excellent preparation. No students with undergraduate averages below 2.5 will be admitted. Graduate Students who lack specified prerequisites, or are found to be deficient in the Proficiency Examinations given during the orientation program, may make up their deficiencies by registering in and successfully completing the appropriate (usually undergraduate) courses.

Degree Requirements

Course work for the MS shall include four core courses, one from each of four of the five areas of chemistry: analytical, biological, inorganic, organic and physical. Students who entered the program prior to the Fall 2014 semester must select one course from each of the two areas where the lowest proficiency examination scores were obtained. The following (three-credit) courses are officially "core" in each area: CHE 626 (Fall Analytical), CHE 623 (Spring Analytical); CHE 550 (Fall Biological), CHE 552 (Spring Biological); CHE

510 (Fall Inorganic), CHE 514 (Spring Inorganic); CHE 538 (Fall Organic), CHE 535 (Spring Organic); CHE 547 (Fall Physical), CHE 548 (Spring Physical). Students will not be making satisfactory progress unless they have completed at least 12 hours of course work other than research and seminar by the end of the first year and 24 hours of course work by the end of the second year. In addition, any time a student's GPA falls below a 3.0, this is automatically considered to be unsatisfactory performance. Students who are not making satisfactory progress after three semesters will be ineligible to serve as teaching assistants and may be terminated in the graduate program.

MS-A (Master's Thesis Plan): A minimum of 30 graduate credit hours, 15 of which must be at the 600- or 700-level (Graduate School requirement). The advisory committee may require additional courses.

MS-B (Master's Coursework Plan): A minimum of 30 graduate credit hours, 15 of which must be at the 600- or 700-level (Graduate School requirement). The advisory committee may require additional courses. Of these 15 advanced credit hours, the Council on Postsecondary Education currently requires that 12 credit hours be in Chemistry (CHE) courses.

Please see the Department of Chemistry Graduate Program Handbook for more information related to the Graduate Program.

Please visit the Department of Chemistry website for more resources and information.

Computer Science, MS

The Department of Computer Science offers the program of study leading to the Master of Science in Computer Science degree. The M.S. program graduates are expected to demonstrate proficiency in the fundamental areas of computer science. Admission to the program is highly competitive and based upon academic record, GRE scores, and letters of recommendation, etc. It is strongly suggested that applicants present evidence of competence in computer science as well as mathematical maturity.

Students can either take option A (thesis option) or option B (non-thesis option). Details can be found in the section of Degree Requirements.

Admission Requirements

- Transcript showing a bachelor's degree (4 years or equivalent)
- GRE (waived for Fall 2021 and Spring 2022)
- TOEFL score (for international students)
- Three letters of recommendation
- Statement of purpose
- Additional requirements:
 - A GPA of at least 3.0 on a 4.0 scale

- Evidence of Computer Science background. Students from a non-CS major may be required to take preparatory CS courses before they can be admitted into the program.

Degree Requirements

To receive an MS, the student must finish either option A (thesis option) or option B (non-thesis option).

- Option A requires at least 24 credit hours of regular coursework in CS and up to six credits of CS 768 Residence Credit for Master's Degree. The total number of credits required is 30. MS students under option A must prepare a thesis.
- Option B requires 30 credit hours and a project. The 30 hours may include CS 610. MS students under option B must complete the project.

In either option, students may take up to 6 credits of CS 612. For either option, at least half of the credit hours must be in higher than 500-level courses (excluding CS 768 and CS 680). Courses from other departments require a prior DGS approval.

All courses other than CS 768 for option A must have regular letter grades, that is, no pass/fail, and the overall GPA in these classes must be 3.0 or higher.

MS candidates must pass four core courses, two from each of the following two groups:

1. CS 505 (Databases), CS 541 (Compilers), CS 570 (Systems), CS 571 (Networks), and
2. CS 515 (Algorithms), CS 537 (Numerical), CS 575 (Theory).

The final grades in each course must be B or higher. In exceptional cases, when courses needed to complete the requirement are not offered, the DGS may approve other courses as equivalent replacements.

In addition, the graduate school policies manual specifies additional requirements and procedures. It can be found on the graduate school website.

Incoming students are informed of the graduate-school and program-specific academic policies at the orientation held before classes begin each fall. A handbook is also on the CS website.

Data Science, MS

The Master of Science with a major in Data Science degree is a two-year interdisciplinary program taught by faculty from three departments: Computer Science, Biostatistics, and the Institute of Biomedical Informatics. The curriculum aims to prepare the future data science professional with a critical skillset that includes database management, statistical and machine learning techniques and big data analytics. The program includes a required capstone project, in which students analyze real-life datasets in a selected application domain in collaboration with domain experts and other data scientists.

The Master of Science with a major in Data Science degree is available with two concentrations:

- Biomedical Informatics
- Software and Systems for Data Science

Admission Requirements

Admission to the program requires a minimum undergraduate GPA of 3.0 on a 4.0 scale. Students must have successfully completed a course in calculus (comparable to the UK course MA 113) and two courses in programming (comparable to the UK courses CS 115 and CS 215). Students will preferably have also successfully completed a course on linear algebra (such as the UK course MA 322) and will have experience using several programming languages. Exceptions to these requirements may be made by the Director of Graduate Studies if other persuasive evidence indicating the student's potential of success is available. Such evidence could include high scores on standardized tests (e.g., GRE); demonstrated ability in computer programming; or strong performance in courses in the sciences, engineering, mathematics, statistics, or other quantitative disciplines.

Degree Requirements

The program requires 33 credit hours which are divided into Major (27 hours) and Concentration (6 hours) Requirements.

Major Requirement (27 credit hours)

1. Core (15 credit hours)
 - DS 501 FUNDAMENTALS OF DATA SCIENCE (3 credit hours)
 - BST 600 INTRODUCTION TO BIOSTATISTICAL METHODS (3 credit hours)
 - CPH 630 BIOSTATISTICS II (3 credits hours)
 - DS 710 RESEARCH SEMINAR IN DATA SCIENCE (1 credit hour x 3 times)
 - DS 711 MASTERS PROJECT IN DATA SCIENCE (3 credit hours)
2. Guided Electives in CS (3 credit hours) (One of the three required):
 - CS 405G INTRODUCTION TO DATABASE SYSTEMS
 - CS 460G MACHINE LEARNING
 - CS 626 LARGE SCALE DATA SCIENCE
3. Free Electives (9 credit hours)
 - All electives must be approved by the DGS. At least two free electives must be at the 600 or 700 level. Moreover, free electives must include at least two courses (6 credits) with a strong data science component in the subject area of the student's project.

Concentration Requirement (6 credit hours)

There are currently two concentrations from which the student is required to select.

Concentration in Biomedical Informatics

1. Concentration Core (3 credit hours)
 - BMI 633 INTRODUCTION TO BIOINFORMATICS
2. Concentration Electives (3 credit hours) (One of the three required)
 - BMI 730 PRINCIPLES OF CLINICAL INFORMATICS
 - BMI 733 BIOMEDICAL NATURAL LANGUAGE PROCESSING
 - BMI 734 INTRODUCTION TO BIOMEDICAL IMAGE ANALYSIS

Concentration in Software and Systems for Data Science

1. Concentration Core (6 credit hours)
 - CS 460G MACHINE LEARNING or CS 628 DATA MINING
 - CS 626 LARGE SCALE DATA SCIENCE
 - CS 505 INTERMEDIATE TOPICS IN DATABASE SYSTEMS only if CS 626 LARGE SCALE DATA SCIENCE is taken as a Guided Elective

Program Website: <https://www.engr.uky.edu/data-science>

Dentistry, MS

The Master of Science degree programs in the Orofacial Pain, Orthodontics, and Periodontology graduate specialty programs are designed to produce graduates who are clinically adept, well versed in research and the biologic basis for dentistry, and prepared to function at a high level of accomplishment in both clinical practice and academic dentistry. These interdisciplinary programs involve dental school clinical and graduate program faculty as well as faculty from other programs throughout the University of Kentucky. All students receive teaching experience in anticipation of full- or part-time academic involvement after graduation.

Successful completion of the Master of Science degree is prerequisite before the awarding of a training certificate in the Orthodontics and Periodontology programs. The Masters of Science degree is available in two options:

- Plan A, minimum of 30 credits, plus a Master's Thesis and successful thesis defense
- Plan B, minimum of 30 credits, successful research project results defense, plus a manuscript completion for a peer-reviewed journal based on research project results.

Admission Requirements

- Applicants to any of the Master of Science degree programs must have a D.M.D./D.D.S. degree from an accredited United States or Canadian dental school or equivalent.
- Applicants who are not native English speakers must score at least 550 (paper,) 213 (computer) or 79 (internet) on the Test of English as a Foreign Language (TOEFL) or 6.5 on the International English Language Testing System (IELTS).
- The Graduate School requires an overall grade point average of 3.00 on all graduate work; individual programs may have higher requirements.
- The individual degree programs may have different admission requirements; please consult the individual degree program website:
 - Orofacial Pain: <https://dentistry.uky.edu/orofacial-pain-applications-and-admissions>
 - Orthodontics: <https://dentistry.uky.edu/orthodontics-applications-and-admissions>

- Periodontology: <https://dentistry.uky.edu/periodontology-applications-and-admissions>

Program Requirements

Requirements To Be Added

Digital Mapping, MS

The Department of Geography at the University of Kentucky offers two completely online programs in Digital Mapping: an 11-credit Graduate Certificate and a 30-credit Master of Science (Plan B, nonthesis).

The Digital Mapping graduate programs at the University of Kentucky offer a challenging, intensive, digital mapping curriculum that emphasizes the acquisition of technical skills - coding, GIS, web development - while also preparing students to critically address the complexity of today's information ecosystem.

These Graduate Certificate and Master of Science degree programs in digital mapping were designed with all levels of experience in mind. Whether students are new to open-source software or an experienced GIS user, they will benefit from a truly unparalleled online learning experience developed by internationally renowned faculty in a top-ranked geography department.

Students will develop the technical skills and design fluency you need to make highly sophisticated web maps that are also elegant and impactful. Perhaps even more importantly, they will learn to think critically about the social dimensions of the maps they make and the data from which they make them. Maps, after all, are powerful things: they shape what we see and what we don't, with serious implications for how we come to know the world.

Admission Requirements

Prospective applicants must meet the general requirements of the Graduate School regarding minimum undergraduate grade point average. The applicant will be required to submit official transcripts for all undergraduate work. Required supplemental materials include a personal statement; CV and/or resume; mapping portfolio; examples of code/design; and three letters of recommendation. GRE scores are not required for application. New admission to the Master of Science in Digital Mapping occurs twice annually, during the Spring and Fall semesters. One additional entry point is available in the Summer for those students that have completed the requirements for the Graduate Certificate in Digital Mapping. Applications are accepted until 2 weeks before the term start using custom dates detailed on the Programs page: <https://newmapsplus.as.uky.edu/programs>

Degree Requirements

After applying and being accepted to the MS in Digital Mapping, the student must complete the following 30 hours of coursework:

- MAP 671 INTRODUCTION TO NEW MAPPING (3)
- MAP 672 PROGRAMMING FOR WEB MAPPING (4)
- MAP 673 DESIGN FOR INTERACTIVE WEB MAPPING (4)
- MAP 674 SPATIAL DATA ANALYSIS AND VISUALIZATION (4)
- MAP 675 COLLABORATIVE GEOVIZUALIZATION (4)
- MAP 701 HISTORY OF CRITICAL CARTOGRAPHY (2)
- MAP 719 SOCIAL IMPACTS OF NEW MAPPING (3)
- MAP 698 FINAL PROJECT PREPARATION (3)
- MAP 699 FINAL PROJECT IMPLEMENTATION (3)
- **TOTAL CREDIT HOURS FOR MS DEGREE 30**

Economics, MS

The M.S. in Economics is designed to introduce students to graduate-level study in economics. The M.S. in Economics provides a strong foundation in microeconomics, macroeconomics, and econometrics, in addition to allowing students to pursue some electives in their fields of interest.

More information about the MS in Economics is available at

<https://gatton.uky.edu/programs/masters/master-science-economics>

Admission Requirements

Applications are submitted online through the Graduate School, and must include:

1. A resumé
2. A one-to-two page personal essay about why you want to attend graduate school in economics
3. Two or three confidential letters of recommendation
4. Unofficial copies of your GRE scores, transcript, and TOEFL score (if required).

The recommended minimum prerequisite undergraduate preparation includes 6 hours of intermediate theory, 6 hours of statistics, and 6 hours of calculus.

Degree Requirements

1. A minimum of 30 hours of graduate credit courses.
 - a. The student must satisfactorily complete the following courses: ECO 590 INTRODUCTION TO QUANTITATIVE ECONOMICS I, ECO 601 ADVANCED MICROECONOMIC THEORY, ECO 602 MACROECONOMIC THEORY, ECO 603 RESEARCH METHODS AND PROCEDURES IN ECONOMICS, ECO 703 INTRODUCTION TO ECONOMETRICS I.
 - b. The student must also satisfactorily complete either: ECO 701 NEOCLASSICAL MICROECONOMIC THEORY or ECO 702 ADVANCED MACROECONOMIC THEORY and, one course in an elective area of the Ph.D. program.
 - c. Courses taken outside of the Department of Economics must be approved by the Director of Graduate Studies to count toward the 30 hour requirement.
2. Successful completion of a final examination.
3. Minimum average of grade B (a GPA of 3.0) in all courses attempted for graduate credit after being admitted to Graduate School. Students obtaining six quality points below a B average will be dropped by the department.

Entomology, MS

The Department of Entomology has a rich legacy of vibrant scholarship and innovative education and outreach, coupled with strong commitment to graduate education. Individual graduate programs are planned by students in consultation with their advisory committees and the Director of Graduate Studies.

Entomology, like all agricultural and biological sciences disciplines, continues to evolve and integrate state of the art technology and new research perspectives with insect biology. Although departmental research is unified by a focus on insects and their arthropod relatives, many research groups creatively merge aspects of basic and applied biology. Graduate study and research opportunities are available in a diverse range of areas of entomology, including agricultural and urban entomology, biological control and integrated pest management, medical, veterinary, and public health entomology, pollinator biology and insect-plant relationships, forest entomology, and arachnology. Research covers many major fields of biology including behavior, biochemistry, ecology (including evolutionary, urban, landscape, and general ecology), genetics, neuroscience, molecular biology, physiology, toxicology, and systematics.

Graduate study and research opportunities are available in a diverse range of areas of entomology, including agricultural and urban entomology, biological control and integrated pest management, medical, veterinary, and public health entomology, pollinator biology and insect-plant relationships, forest entomology, and arachnology. Research covers many major fields of biology including behavior, biochemistry, ecology (including evolutionary, urban, landscape, and general ecology), genetics, neuroscience, molecular biology, physiology, toxicology, and systematics.

Admission Requirements

A Bachelor's degree with an undergraduate grade point average of 3.0 and GPA of 3.25 in all graduate level work are required. Graduate Record Examination scores are not required. Applicants whose native language is not English must have a Test of English as a Foreign Language (TOEFL) with a minimum score of 79 on the TOEFL-iBT. A minimum overall band score of 6.5 on the International English Language Testing System (IELTS) may be used in lieu of a TOEFL score. The Program requires three letters of recommendation. Meeting the minimum requirements does not guarantee admission. These minimum

requirements may be waived in exceptional cases if sufficient additional evidence is presented regarding the ability of the student to do graduate work. Admission to the Graduate Program in Entomology does not automatically guarantee financial assistance to the student.

Degree Requirements

M.S. Plan A

During their first year of graduate studies, M.S. Plan A students complete a formal written research proposal encompassing a thorough literature review, clear statement of objectives, and materials and methods of the project. A research proposal seminar will be presented to the Department upon completion of the written research proposal. An exit seminar, usually presented during the last semester of the student's tenure, is required. In addition, the follow requirements must be completed:

- 30 credit hours, including 6 credit hours of Residence Credit for the MS degree
- STA 570 (Basic Statistical Analysis) or equivalent, or a different statistics course approved by the student's advisory committee
- Completion of courses in two of three Core Areas. Core Areas include diverse courses in 1) Insect Behavior, Ecology, Evolution and Systematics, 2) Insect Molecular Biology, Physiology and Genetics, and 3) Pest Management and Applied Ecology.
- M.S. candidates must take two semesters of Entomological Seminar (ENT 770), or seminars from other departments approved by the student's advisory committee
- MS Thesis
- Final Examination

M.S. Plan B

During their first year of graduate studies M.S. Plan B form an advisory committee. In addition, the follow requirements must be completed:

- 36 credit hours
- STA 570 (Basic Statistical Analysis) or equivalent, or a different statistics course approved by the student's advisory committee
- Completion of at least one course in each of three Core Areas. Core Areas include diverse courses in 1) Insect Behavior, Ecology, Evolution and Systematics, 2) Insect Molecular Biology, Physiology and Genetics, and 3) Pest Management and Applied Ecology.
- M.S. Plan B candidates must take two semesters of Entomological Seminar (ENT 770), or seminars from other departments approved by the student's advisory committee
- Practicum project
- Final Examination

Geological Sciences, MS

The Department of Earth and Environmental Sciences offers graduate studies leading to the M.S. and Ph.D. degrees in Geology. Students with degrees in geology, any other natural science, or engineering are invited to apply.

Research within the Department of Earth and Environmental Sciences is funded by grants and contracts from NSF, DOE, PRF, and other federal, state, and industrial sources. Areas of graduate research are in fields covered by regular and adjunct faculty, including coal geology, hydrogeology, stratigraphy, petrology, geophysics, and tectonics.

Admission Requirements

Admission to pursue an M.S. or Ph.D. degree requires a bachelor's degree, a minimum grade point average of 2.75, three letters of reference and results from the verbal, quantitative, and analytical Graduate Record Examination (GRE). TOEFL scores are required for international applicants. For more details, please consult Admissions Information and Assistantships and Fellowships.

Admission criteria include GPA, GRE scores, prior course work, letters of reference, previous experience, and match with faculty research interests. This program requires an undergraduate GPA of at least 3.0 on all undergraduate and graduate work. For international applicants, we require that applicants rank in the top 25% of their graduating classes.

GRE must be taken, but there is no minimum score. Applicants who score at least 75th percentile on one category of the GRE and who have (a) an overall undergraduate GPA of 3.30, (b) a GPA of 3.60 for the last 60 credit hours of undergraduate work, or (c) a GPA of 3.80 for a completed master's degree (in each case from a US institution) are eligible for a Pirtle Fellowship, which provides \$3,000 in summer salary. Most applicants have a "standard" geology background, but strong students with backgrounds in the sciences and engineering are also admitted. Spoken English proficiency is important because many of our graduate students are employed as teaching assistants (in particular, as laboratory instructors). For international applicants, the Graduate School requires a minimum score of 550 on the TOEFL (213 on the computerized version; 79 on the internet-based version) or 6.5 on the IELTS. We typically only consider admission to the PhD program after completion of a master's degree either here at UK or at another US or European institution. Students who are deficient in one or more respects may be admitted provisionally or as non-degree students by action of the Graduate Committee. Your chances of admission are better if you've identified faculty members with whom you might work. We recommend you consult our faculty research specialties at <https://ees.as.uky.edu/faculty> and directly contact faculty in your areas of interest.

Degree Requirements

The Master of Science in Geological Sciences (Plan A) requires the completion of graduate course work and a thesis. The student must complete at least 30 credit hours of graduate course work, which may include up to 6 hours of EES 768*. The normal graduate load is 9 -10 credits during each of the first two semesters, and no more than 12 credits is advised. Graduate courses are those in the 500, 600, or 700 series, or in the 400G series if outside the Department of Earth and Environmental Sciences. At least 16 credits must be in EES course work, including 3 credits of Scientific Communication (EES 695-001). At least 12 credits must be in the 600 or 700 series, and at least 9 of the 600- or 700-level credits must be in EES courses. At least

16 hours must be regular (non-research) courses. Full-time students who are enrolled in at least 3 hours but less than 9 hours of coursework, which is typical in the third semester of the M.S. program, should register for EES 768 RESIDENCE CREDIT FOR MASTER'S DEGREE to reach 9 hours total. *768 hours do not count towards the 16 hours of EES coursework or the 12 hours of 600 or 700 series.

Information Communication Technology, MS

The online graduate program in Information Communication Technology (ICT) is dedicated to advancing and evolving how users interact and manage communication, information, and technology. Students in the program will learn to effectively research, apply, use, and manage technology when solving problems specifically related to information and communication, bridging the gap between the business and technology side of interactions. The program's core courses allow students to obtain the graduate skills that will serve them well in management roles and prepare them to tackle the technology trends of today. Specialty tracks in the program allow students to take a variety of electives and special topics classes in order to give them more in-depth information on some of the many career pathways ICT can offer.

Admission Requirements

- Transcripts showing a Bachelor's degree from an accredited four-year institution with an undergraduate GPA of 3.0 or higher
- Personal Statement explaining (i) why the applicant is seeking admission to the ICT master's program at the University of Kentucky, and (ii) why they are interested in a career as an ICT professional (200-300 words)
- Resume or CV
- Three letters of recommendation

Degree Requirements

Fifteen credits of core coursework:

- ICT 600 INFORMATION COMMUNICATION TECHNOLOGY IN SOCIETY
- ICT 610 ICT RESEARCH METHODS
- ICT 650 INTRODUCTION TO LEADERSHIP IN INFORMATION PROFESSIONS
- ICT 661 INTRODUCTION TO DATA SCIENCE OR ICT 662 DATA ANALYSIS AND VISUALIZATION
- ICT 696 ICT PRACTICUM

Students complete an additional 21 credit hours of electives, completing the program with a total of 36 credit hours. All ICT master's courses are online, asynchronous courses.

A grade point average of 3.00 (B) must be maintained. Failure to do so results in academic probation and will result in dismissal, if, in the prescribed time, the grade point average is not raised to 3.00 or higher. A student who earns a third C (or lower) grade is dismissed from the program even if the student has earned the required minimum 3.00 grade point average.

The MSICT website can be found here: [Online Master's in Information Communication Technology | School of Information Science \(uky.edu\)](#).

Interested applicants might also review our [Student Handbook](#).

Integrated Plant and Soil Sciences, MS

The interdepartmental graduate program in Integrated Plant and Soil Sciences offers graduate work leading to the Master of Science (MS) degree with specialization in Crop Science (including weed science and forages), Environmental Science and Ecosystem Ecology (including ecotoxicology, biogeochemistry, environmental chemistry, and ecosystem modeling), Horticultural Science, Plant Biology (including biochemistry, molecular biology, physiology, and seed biology), and Soil Science (biogeochemistry, chemistry, fertility, microbiology, pedology, physics, and rhizosphere science).

With their degree, students will acquire an extensive knowledge of the sciences and technology that support research, education, and technological innovation in plant, soil, and environmental sciences. They will be conversant with the literature, current concepts, and experimental and analytical methods that support research, teaching, and technological innovation in plant, soil, and environmental sciences, and in their application to agriculture and the environment. They will develop skills in critical and analytical thinking and in multiple forms of communication that may be applied to research, education, industry, government, and public service. They will have acquired those elements of professionalism necessary for rewarding and developing careers in plant, soil, and environmental sciences in research, education, production agriculture, agribusiness, government, and public service.

Graduate faculty belong to the Departments of Forestry and Natural Resources (<https://forestry.ca.uky.edu/>), Horticulture (<https://www.uky.edu/hort/>), and Plant and Soil Sciences (<https://pss.ca.uky.edu/>) in the College of Agriculture, Food, and Environment

Financial aid and the research interests of participating faculty can be found on the websites of the participating departments.

Admission Requirements

- All students with strong training in science, including but not limited to baccalaureate degrees in agronomy, biology, chemistry, and horticulture are encouraged to apply.
- Admission to the IPSS Program is competitive and based on the applicant's undergraduate and graduate records, performance on standardized exams if submitted, and letters of recommendation.
- Applicants must have an identified research advisor prior to admission to the program.
- It is expected that applicants will meet the minimum standards established by the University of Kentucky Graduate School.

- Applicants will automatically be considered for departmental research assistantships, which are awarded on a competitive basis.

Degree Requirements

The MS in IPSS is available in two options

- Plan A: 30 credits, which can include up to 6 credits of thesis research, plus a Master's thesis.
- Plan B: 30 credits, plus a Master's project
- In both plans a minimum of 15 credit hours must be at the 600-level or above, and 20 hours must be in organized courses.
 - All students will create a discipline-specific committee (consistent with Graduate School Requirements - 3 members for the MS program), and an individualized program of study within one year
 - Satisfy basic Graduate School requirements for residency, examination, and good standing.
 - Have an overall GPA of 3.0 or better to complete the MS degree and pass a final examination.
 - Plan A students must present an exit seminar and submit an approved thesis.

Required courses include IPS 610, IPS 625, PLS 772 , and at least one graduate level statistics course. Additional coursework may be required by the student's thesis or advisory committee.

Graduate students in IPSS have flexibility in designing course work to suit individual goals, but are expected to demonstrate competence in basic areas of plant and soil science and excellence in their chosen area of specialization.

General information on electives and potential courses can be found at <https://ipss.ca.uky.edu/>

Incoming students are informed of the graduate-school and program-specific academic policies at an orientation held before classes begin each fall. A handbook is also on the IPSS website.

Kinesiology and Health Promotion, MS

The master's program is designed to provide a high-quality graduate program for students who desire advanced study to enhance their professional knowledge and skills as well as for students who complete the master's degree as an intermediate step toward doctoral work. Students can select from a variety of specializations (Biomechanics, Exercise Physiology, Health Promotion, Physical Education, Coaching, and Sport Leadership) to meet their interest areas and career goals as described below.

The objective of the program is to prepare the student to:

- permit an in-depth study of a specialized content area within the field;
- effectively locate, analyze, and use significant elements of the professional literature and research materials;
- acquire a knowledge of sound research procedures; and

- engage in clinical, applied, and/or experiential learning opportunities to enhance students' professional development

The course work and program experiences are designed to enable graduate students in the Department of Kinesiology and Health Promotion to demonstrate:

1. Educational, professional and technological standards.
2. Literacy skills for life-long professional learning.
3. Current, factual, and functional content knowledge.
4. Functional skills and dispositions of professionals.
5. Skills for research and reflection for learning and leading.
6. Skills to plan, implement, and evaluate basic and applied research.
7. Skills to analyze and interpret research data.

To accomplish these outcomes, students are introduced to a combination of departmental course offerings, supporting electives, and a required core of statistics and research methods. Students work with their advisor to tailor course work and additional opportunities to their interests areas and career goals. Master's candidates with the approval of the department may select either a thesis (Plan A) or a non-thesis option (Plan B).

BIOMECHANICS SPECIALIZATION

The specialization in human biomechanics is a multidisciplinary program working together with Kinesiology, Health Sciences, and Engineering. The program helps address critical problems related but not limited to sport, exercise, health, aging, space science and ergonomics.

EXERCISE PHYSIOLOGY SPECIALIZATION

The specialization in Exercise Physiology offers a robust science-based curriculum to prepare students for a variety of careers in research, clinical, and practitioner-based settings. The curriculum offers numerous clinical, applied, and experiential learning opportunities to enhance students' professional development. Students may pursue research or internship-based tracks to effectively prepare for their professional endeavors.

HEALTH PROMOTION SPECIALIZATION

The specialization in Health Promotion is for students passionate about health and wellness who want to make a positive impact on other people's lives. With a flexible distance learning degree option, students will gain advanced professional skills, build professional relationships with top alumni, and engage with internationally recognized faculty in health promotion. The curriculum offers numerous applied and experiential learning opportunities to enhance students' professional development. Students may pursue

research or internship-based tracks to effectively prepare for their professional endeavors. Students will also be prepared to sit for the Certified Health Education Specialist (CHES) examination, a professional credential widely respected in the health promotion field.

SPORT LEADERSHIP SPECIALIZATION

The Sport Leadership specialization focuses on preparing leaders in all sport, recreation, and fitness related fields. The goal is to help students develop the knowledge and skills to be more effective practitioners and researchers in the field of leadership.

PHYSICAL EDUCATION SPECIALIZATION

The Physical Education (Teaching) specialization focuses on connecting theory of effective teaching processes and the practice of effective teaching in physical education. In addition to learning about appropriate teaching methods, you learn very valuable experiences in the field. Please note: This degree does not lead to teacher certification.

COACHING SPECIALIZATION

The master's degree with a specialization in coaching is directed primarily at preparing graduate students to be coaches at the elementary school, middle school, high school, and collegiate levels. The aim is to help teaching and coaching master's students develop the knowledge and skills to be more effective practitioners and researchers in the field of coaching.

Admission Requirements

Applicants must meet the Graduate School requirements set forth in the first part of this Bulletin as well as those set forth for each specialty area. Additional information can be found on the departmental website and is briefly summarized below: <https://education.uky.edu/khp/grad/> Specific prerequisites for graduate study at the master's level are determined by a committee of the departmental graduate faculty based upon area of emphasis.

- Priority deadline for upcoming academic year: February 1
- Fall: July 15 (international students: April 15)
- Spring: December 1 (international students: August 22)

Please note: all of our specializations are slightly different so information on each is included below.

BIOMECHANICS SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: not required A total of three letters of recommendation are required.

- A minimum of 2 out of 3 of these letters must be submitted by someone with a terminal degree (i.e. Ph.D., M.D., Ed.D., etc.) and must be from a person with direct knowledge of the applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

EXERCISE PHYSIOLOGY SPECIALIZATION

- Students must contact a program faculty member prior to applying to the program. It is important to identify a faculty member for which the student has similar research/scholarly interests.
- Personal Statement (must indicate a primary and secondary program faculty member)
- GRE Requirements: Not required
- GPA requirement: 3.2 or higher

HEALTH PROMOTION SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: Not required.
- GPA requirement: 2.75 or higher
- Resume/CV
- A professional goal statement describing the applicant's professional background, motivations for seeking a graduate education in this specialty area, why the current program is an ideal fit, and career/research aspirations.
- Three letters of recommendation: At least two must be from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

SPORT LEADERSHIP SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: not required.
- GPA requirement: 2.75 or higher
- Three letters of recommendation

PHYSICAL EDUCATION SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: Not required.
- GPA requirement: 2.75 or higher
- Three letters of recommendation

COACHING SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: Not required.
- GPA requirement: 2.75 or higher
- Three letters of recommendation

Degree Requirements

Please note: all of our specializations are slightly different so information on each is included below.

BIOMECHANICS SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the biomechanics specialization. A minimum of 30 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Methods (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or STA 580 / CPH 580 or EPE 558 / EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (12 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Thesis (6 hours)

Plan B

- Research Methods (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or STA 580 / CPH 580 or EPE 558 / EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (15 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Independent research/study (3 hours)

EXERCISE PHYSIOLOGY SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the exercise physiology specialization. A minimum of 30 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557 / EDP 557 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (12 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Thesis (6 hours)

Plan B

- Research Methods (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557 / EDP 557 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (15 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Independent research/study (3 hours)

HEALTH PROMOTION SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the health promotion specialization. A minimum of 33 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 569, STA 570, or EPE 558 / EDP 558 or PSY 610 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (9 hours)
 - KHP 674 FOUNDATIONS OF HEALTH PROMOTION (3)
 - KHP 673 HEALTH PROMOTION AND BEHAVIOR CHANGE (3)
 - KHP 677 PLANNING HEALTH PROMOTION PROGRAMS (3)
- Disciplinary Support/Supporting Electives (12 hours)
- Thesis (6 hours)

Plan B

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 569, STA 570, or EPE 558 / EDP 558 or PSY 610 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (9 hours)
 - KHP 674 FOUNDATIONS OF HEALTH PROMOTION (3)
 - KHP 673 HEALTH PROMOTION AND BEHAVIOR CHANGE (3)
 - KHP 677 PLANNING HEALTH PROMOTION PROGRAMS (3)
- Disciplinary Support/Supporting Electives (15 hours)
- Internship (3 hours)
- KHP 679 HEALTH PROMOTION & HEALTH COACHING INTERNSHIP (3)

SPORT LEADERSHIP SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the sport leadership specialization. A minimum of 30 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Tools (6-7 hours)

- KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
- STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (12 hours)
 - KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT (3 hours)
 - KHP 683 LEADERSHIP, THEORY, AND PRACTICE IN SPORT AND FITNESS ORGANIZATIONS (3 hours)
 - KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3 hours)
 - KHP 685 SUPERVISION OF SPORT AND FITNESS PERSONNEL (3 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Thesis (6 hours)

Plan B

- Research Methods (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (15 hours)
 - KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT (3 hours)
 - KHP 683 LEADERSHIP, THEORY, AND PRACTICE IN SPORT AND FITNESS ORGANIZATIONS (3 hours)
 - KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3 hours)
 - KHP 685 SUPERVISION OF SPORT AND FITNESS PERSONNEL (3 hours)
 - KHP 688 EVENT MANAGEMENT IN SPORT (3 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Internship (3 hours)
- KHP 687 PRACTICUM IN SPORT MANAGEMENT (3 hours)

PHYSICAL EDUCATION SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the teaching specialization. A minimum of 30 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (6 hours)
 - KHP 601 TEACHING EFFECTIVENESS AND LEADERSHIP IN KINESIOLOGY AND HEALTH EDUCATION (3 hours)
 - KHP 602 PROMOTING PHYSICAL ACTIVITY FOR YOUTH (3 hours)
- Disciplinary Support/Supporting Electives (12 hours)
- Thesis (6 hours)

Plan B

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (6 hours)
 - KHP 601 TEACHING EFFECTIVENESS AND LEADERSHIP IN KINESIOLOGY AND HEALTH EDUCATION (3 hours)
 - KHP 602 PROMOTING PHYSICAL ACTIVITY FOR YOUTH (3 hours)
- Disciplinary Support/Supporting Electives (18 hours)

COACHING SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the coaching specialization. A minimum of 30 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (9 hours)
 - KHP 601 TEACHING EFFECTIVENESS AND LEADERSHIP IN KINESIOLOGY AND HEALTH EDUCATION (3 hours)
 - KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT (3 hours)
 - KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3 hours)
- Disciplinary Support/Supporting Electives (9 hours)
- Thesis (6 hours)

Plan B

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (9 hours)
 - KHP 601 TEACHING EFFECTIVENESS AND LEADERSHIP IN KINESIOLOGY AND HEALTH EDUCATION (3 hours)
 - KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT (3 hours)
 - KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3 hours)
- Disciplinary Support/Supporting Electives (15 hours)

Marketing, MS

The Master of Science in Marketing is a one-year graduate program designed to provide students with in-depth course work in key marketing topics. This program will include core content focused on the areas of

strategic marketing, marketing research, new product development, personal selling and sales management, consumer insights, marketing analytics and data visualization, corporate social responsibility marketing communications, digital marketing, and branding.

Admission Requirements

Applicant must meet requirements of the Graduate School for admission. Students will need a GMAT/GRE score as part of the application.

Degree Requirements

This is a 30 credit hour non-thesis option MS program.

Core requirements including course information

MKT 600 MARKETING MANAGEMENT

MKT 601 MARKETING RESEARCH

MKT 610 CONSUMER INSIGHTS AND ANALYSIS

MKT 611 NEW PRODUCT DEVELOPMENT

MKT 615 MARKETING COMMUNICATIONS & SOCIAL MEDIA

MKT 620 DIGITAL MARKETING & ANALYTICS

MKT 622 PERSONAL SELLING & SALES MANAGEMENT

MKT 625 BRANDING

MKT 629 MARKETING ANALYTICS & DATA VISUALIZATION

MKT 651 CORPORATE SOCIAL RESPONSIBILITY

There are no elective courses.

- [Link to program website \(optional\)](#)

<https://gatton.uky.edu/programs/masters/master-science-marketing>

Mathematics, MS

The Master of Science degree, through an emphasis on the applications of mathematics and the acquisition of computational skills, focuses on careers in business, industry, and government.

Admission Requirements

The MS program in Mathematics does not have formal admission requirements other than those of the Graduate School. Admission, however, is competitive. The admissions committee reviews transcripts, letters of recommendation, and the candidate's personal statement, seeking evidence of mastery in proof-based mathematics (such as analysis, topology, and modern algebra), the ability to craft mathematical proofs, and general mathematical maturity.

Degree Requirements

- Students must complete 30 hours of graduate work in Mathematics and related areas.
- Of these 30 hours, students must have:
 - At least 20 hours in Mathematics courses,
 - At least 15 hours at the 600 level or above, with
 - At least 12 hours in Mathematics courses at the 600 level or above.
- There is substantial flexibility in the courses a student may take for the MS degree.
- Students may select from Plan A (thesis option) or Plan B (non-thesis option).

Medical Sciences, MS

The Master of Science in Medical Sciences (MSMS) is a broad interdisciplinary degree program housed in the College of Medicine. Participating Departments and Centers include Behavioral Sciences; Pharmacology and Nutritional Sciences; Toxicology and Cancer Biology; Microbiology, Immunology and Molecular Genetics; Molecular and Cellular Biochemistry; Neuroscience; and Physiology. The MSMS may be used as a stand-alone degree by students seeking career enhancement in fields such as basic biomedical research, the pharmaceutical industry, or the health science professions; by students seeking academic credentials in the biomedical sciences prior to applying for medical school or other health related professional degree programs; or by students seeking to enhance their knowledge base prior to choosing a career direction. The MSMS degree may also provide supplemental or joint training for practitioners in the health professions (e.g., physicians, dentists, pharmacists), or students in professional health science programs based on individual career goals and research training needs. Finally, the MSMS program provides students with the opportunity to opt out of a Ph.D. program and receive a master's degree.

Admission Requirements

- A baccalaureate degree from a fully accredited institution of higher learning.
- A minimum undergraduate grade point average of 2.9 and graduate GPA of 3.0.
- An average GRE score on the verbal, quantitative and analytical sections greater than the 40th percentile.
- The MSMS program also accepts MCAT or DAT scores in lieu of the GRE to serve as the entrance exam. In such cases, it is recommended that applicants have a minimum score of 497 on the MCAT, or an academic and science minimal average of 16 on the DAT.
- Three letters of recommendation
- Personal Statement
- For the best chances of gaining admission to the program, an applicant should have one year of general or inorganic chemistry, one year of organic chemistry (or one semester of organic chemistry and one semester of biochemistry) and at least one year of biology.

Degree Requirements

Students entering the MS in Medical Sciences program can choose either a thesis option (Plan A), requiring 30 hours of graduate level coursework, including six hours of research, or a non-thesis option (Plan B), also requiring 30 hours of graduate level coursework, including three hours of research. Plan A requires a defense of the master's thesis while Plan B requires a final master's exam. Most students enrolling in the MS in Medical Sciences as a stand-alone degree utilize the Plan B platform.

The plan of study for the MSMS program consists of a ten (10) credit hour curriculum and a recommended course of study based on career tracks. The ten credit hour core curriculum consists of the following courses:

- IBS 602 MOLECULAR BIOLOGY AND GENETICS (3) OR IBS 603 CELL BIOLOGY AND SIGNALING (3)
- IBS 606 PHYSIOLOGICAL COMMUNICATION (3)
- IBS 611 PRACTICAL STATISTICS (2)
- Seminar - Please select one from the following list:
 - MI 772 SEMINAR IN MICROBIOLOGY (1)
 - ANA 600 SEMINAR IN ANATOMY (1)
 - TOX 770 TOXICOLOGY AND CANCER BIOLOGY SEMINAR (2)
 - PHA 770 SEMINAR IN PHARMACOLOGY (1)
 - PGY 774 GRADUATE SEMINAR IN PHYSIOLOGY (1)
- TOX 600 ETHICS IN SCIENTIFIC RESEARCH (1)

Recommended Elective Courses (representative list)

- ANA 417G FUNCTIONAL HUMAN NEUROANATOMY
- ANA 605/PGY 605 Neurobiology of CNS Injury and Repair
- BCH 401G FUNDAMENTALS OF BIOCHEMISTRY
- BCH 419G MOLECULAR BASIS OF HUMAN DISEASE
- IBS 601/BCH 607 Biomolecules and Metabolism
- MI 494G IMMUNOBIOLOGY
- MI 598 CLINICAL MICROBIOLOGY
- PGY 412G PRINCIPLES OF HUMAN PHYSIOLOGY
- PHA 621 PRINCIPLES OF DRUG ACTION
- PHA 622 MOLECULAR DRUG TARGETS & THERAPEUTICS

The Clinical and Translational Sciences (CTS) concentration is a pathway option for CTS students who are interested in earning their MS in Medical Sciences (MSMS) degree. Students accepted into the CTS program typically consist of fellows or residents who have completed a formal professional degree program (e.g., MD, DMD, PharmD) with a rigorous basic biomedical sciences training that is identical or closely approximates the two basic science core courses in the MSMS program. Therefore, it is proposed that the two MSMS basic science core courses, IBS 602 and IBS 606 be waived. However, any CTS applicant who has not completed equivalent coursework will be required to enroll in and pass IBS 602 and IBS 606. In addition, all CTS students will be required to complete the two remaining MSMS core courses focusing on ethics in research (TOX 600), and a seminar class of their own choosing. CTS students who have completed a professional degree program (e.g., MD, DMD, PharmD) will not be required to submit any entrance exam scores (e.g., GRE, MCAT, DAT). Note: The CTS program is housed in the Department of Behavioral Sciences and it would be appropriate for CTS students to substitute BSC 534 and BSC 733 to meet the ethics and seminar course requirements in the MSMS program, respectively. CTS students will be required to complete BSC 731, BSC 732, and BSC 625 (or similar biostatistics course, such as STA 580). These requirements are aligned with the learning objectives of the CTS concentration. CTS students will then be required to complete the requisite number of hours and successfully pass a master's final exam to complete their MSMS degree. Both Plan A (thesis) and Plan B are available; 30 credits is required for each.

Link to program website <https://graduate.med.uky.edu/master-science-medical-sciences>

Pharmaceutical Sciences, MS

The MS in Pharmaceutical Sciences (MSPS) degree is designed to provide training in research and scholarship within a pharmaceutical sciences discipline for students seeking careers that include a research component, such as those in the pharmaceutical industry, managed care organizations, state and local health departments, academic healthcare systems, and healthcare colleges. The MS program is designed as a component of the PharmD/MS in Pharmaceutical Sciences Dual Degree Program, or alternatively can be awarded to students pursuing a PhD in Pharmaceutical Sciences who change to the MS path. Graduates will be well prepared for a variety of career options, or alternatively a student in the Dual Degree Program could elect to continue their education by applying to the UK College of Pharmacy PhD Program in Pharmaceutical Sciences. Students that participate in this program can choose any aspect of research conducted by investigators at the UKCOP. These include five training tracks: Medicinal, Bioorganic & Computational Chemistry, Pharmaceutical Chemistry & Engineering, Pharmacology and Experimental Therapeutics, Clinical and Experimental Therapeutics, and Pharmaceutical Outcomes & Policy. Students must be admitted and enrolled in the University of Kentucky College of Pharmacy to be considered for this dual degree.

Admission Requirements

Admission to the MS program is restricted to students who are currently enrolled in the Doctor of Pharmacy Program at the UK College of Pharmacy (PharmD/MS Dual Degree Program), enrolled in the Pharmaceutical Sciences PhD Program at the UK College of Pharmacy who elect to switch to the MS path, or who receive special permission from the program to apply. Admission is competitive and is based on academic achievement (minimum 3.0/4.0 GPA in PharmD curriculum) and a letter of recommendation from a faculty research mentor.

Degree Requirements

The program follows the coursework requirements as set by the Graduate School for the master's degree. Students must earn at least 30 credits. At least two-thirds of the minimum requirements for the master's degree must be in regular courses, and at least half of the minimum course requirements (excluding thesis, practicum, or internship credit) must be in 600-or-700-level courses. Candidates for the master's degree must have a major research focus area and must take at least two-thirds of the course work in this discipline. The other one-third may be taken in this area or in related graduate areas.

Under the dual degree program, 2 current PharmD courses will count towards graduate credit (PHR 951 SCHOLARSHIP I [3 credit hours] and PHR 961 SCHOLARSHIP II [3 credit hours]). Other graduate courses will be taken to account for the 8 credit hours of elective credits needed for the PharmD curriculum.

Students may satisfy the master's requirements by either of two options, thesis (Plan A) or non-thesis, (Plan B). The thesis option (Plan A) requires a thesis to be developed under the direction of a full or associate member of the Graduate Faculty. Collaborative effort by two or more graduate students is not forbidden. However, there must be enough independent effort to enable each student to make a separate contribution and to prepare an individual thesis. Before the final examination, the thesis director and the appropriate Director of Graduate Studies must indicate to the Graduate School that the student's thesis satisfies all requirements of the Graduate School and is complete in content and format with the exception of pagination, and that the student is ready to be examined. Any modification in the thesis which the final examination committee specifies must be made before the degree is conferred. Master's candidates working on their theses may enroll in 6 credits of course number PHS 768 .

The non-thesis option (Plan B) requires that six or more graduate credit hours of course work be submitted in lieu of a thesis. A student may follow this option with approval of the program concerned. Students should consult their advisor for any additional requirements established for Plan B in their area of study.

<https://pharmacy.uky.edu/admission-aid/phd-program>

Physics, MS

The Department of Physics and Astronomy offers courses and research opportunities leading to the M.S. and Ph.D. degrees in the areas of astronomy and astrophysics, atomic and molecular physics, low and intermediate energy nuclear physics, condensed matter physics, and particle physics. More detailed descriptions of each of these options is available at <https://pa.as.uky.edu/pa-faculty-research>.

Opportunities exist for experimental, theoretical, and computational, and observational research. Excellent laboratory facilities and library materials are available. Major facilities located within the Department are the six million volt Van de Graaff accelerator and the Center for Advanced Materials. Computational resources include the Lipscomb HPC cluster and access to XSEDE, NERSC, TACC, JLab and BNL. The Department is active in research at many national laboratories, including Jefferson Lab (Virginia), Oak Ridge National Lab (Tennessee), Los Alamos National Lab (New Mexico), Argonne National Lab. (Illinois), Brookhaven National Lab (New York), Triangle Universities Nuclear Lab (North Carolina), National High Magnetic Field Facility (Florida), and Lawrence Berkeley Lab (California) as well as international laboratories including Paul Scherrer Institute (Switzerland), TRIUMF (Vancouver), and MAX-lab (Sweden). In astronomy our students conduct research at facilities including the National Radio Astronomy Observatory (West Virginia), Arecibo Observatory (Puerto Rico), Kitt Peak National Observatory (Arizona), McDonald Observatory (Texas), and the Hubble Space Telescope, and participate in collaborations including Sloan Digital Sky Survey-IV (SDSS-IV) and the Large Synoptic Survey Telescope (LSST). Such activities expose our graduate students to state-of-the-art instrumentation and world-class researchers.

Admission Requirements

In addition to the admissions requirements of the Graduate School, the Department of Physics & Astronomy requires graduate applicants to have a sound foundation in undergraduate physics. This foundation will normally include advanced courses in classical mechanics, electromagnetism and quantum mechanics. Applicants are encouraged to take the GRE physics subject exam. Applicants wishing to apply for financial aid in the form of a teaching assistantship, research assistantship or fellowship must supply letters of recommendation from three individuals familiar with their academic capabilities. Such applicants must also submit a written statement of their interests and background in physics.

Admissions requirements are the same for the M.S. and the Ph.D. programs except that applicants for the Ph.D. must possess an interest in carrying out original research at the advanced level.

Degree Requirements

The M.S. program can include an emphasis on basic or applied physics or physics education, and students are encouraged to take courses in related programs that satisfy the appropriate academic objectives. Before taking the M.S. oral exam, the M.S. student must have completed (with a B average):

Plan A (thesis):

30 credit hours in approved graduate courses including:

- 16 hours of regularly scheduled courses (excludes the following course types: research, independent study, practicum, residency)
- 16 hours with PHY prefix (not including 768 hours)
- 12 hours at the 600/700 level (not including 768 hours)
- 2 hours of PHY 770
- Up to 6 hours of PHY 768 (optional)

Plan B (non-thesis):

30 credit hours in approved graduate courses including:

- 20 hours of regularly scheduled courses (excludes the following course types: research, independent study, practicum, residency)
- 20 hours with PHY prefix
- 15 hours at the 600/700 level

Plant Pathology, MS

Applicants seeking admission to the M.S. program in the Department of Plant Pathology as regular students must have an awarded baccalaureate degree. Each M.S. student's program is guided by a Major Professor (Dissertation Director) and an Advisory Committee throughout the student's graduate career. The purpose of the Advisory Committee is to give the student continuity of direction and counsel and provide intellectual stimulation throughout residency to completion of the degree. The DGS, or a designee (usually the Major Professor), serves as advisor to beginning graduate students until the Advisory Committee is appointed. Most students enter the program having already committed to a Major Professor; however, there is an option for an incoming student who is supported on departmental assistantship or fellowship money to do two or

three short lab rotations before choosing a Major Professor. This option is not available to students who are supported on individual grant funds. The Advisory Committee should be appointed before the end of the student's second semester. The Major Professor and Advisory Committee must be recommended to the Graduate School by the DGS. The DGS will approve the committee only if it meets all Graduate School requirements (below), provides a reasonable breadth and balance of expertise in the major and related disciplines, and presents no obvious conflicts of interest. Once the DGS has approved and recommended the committee, it will be officially appointed by the Graduate Dean. The Thesis Director and the Advisory Committee specifically set requirements (within the rules and regulations of the Plant Pathology program, Graduate School, and University), which the student must meet in pursuit of the degree.

The Department of Plant Pathology offers a primarily coursework non-thesis Master of Science degree, also called a "Plan B" Master's, designed for students seeking additional exposure and training in sub-disciplines within plant pathology without the emphasis placed on original research by the current thesis M.S. degree.

The PPA non-thesis master's degree option primarily involves academic course work followed by a written examination during the final semester of enrollment. The structured research component of the M.S. degree with thesis is not present in the non-thesis Plan B option. Since this option does not involve laboratory research, this degree track is suitable for working students. Students entering the Plan B Master's program will develop a curriculum based on their own interests, advice from a faculty advisor, the list of available classes, and the Graduate School guidelines for a non-thesis M.S. degree. Through this degree program, students can develop additional technical skills, expand their understanding in any of the major areas of plant pathology, and prepare themselves for additional educational opportunities or an upgrade in their employment position.

The typical length of time for completion of an M.S. non-thesis degree while enrolled as a part-time student is anticipated to be approximately six to eight semesters. The student will take a four-hour written exam after completing 30 graded graduate credits.

Admission Requirements

The Graduate School's requirements for admission are likewise the minimum requirements for acceptance into the M.S. program of the Department of Plant Pathology. However, additional materials are required for application to the Plant Pathology M.S. program. Each applicant must arrange for three letters of recommendation to be sent and must also provide a curriculum vitae and a written statement identifying the applicant's reasons for desiring to undertake studies in this department, to the Plant Pathology DGS. These materials, and those submitted to the Graduate School, are considered on a case-by-case basis by the department's Academic Program Committee, which then makes a recommendation on admission. Admission to a graduate program in Plant Pathology does not guarantee financial assistance to the student. Applicants who are admitted will also be informed of any financial offer in a contract that they must sign in order to be admitted to the Graduate School.

Degree Requirements

All graduate students pursuing a M.S. degree in the Plant Pathology program ideally should have, or should obtain, a background in the following areas: mathematics through differential and integral calculus; physics; chemistry, including analytical, organic, and biochemistry; and the equivalent of introductory courses in botany, plant physiology, genetics, molecular biology, statistics and microbiology. The Academic Program Committee will inform the Major Professor and the student, in writing, of any relevant course deficiencies at

the time of admission to the program. Deficiencies should be corrected early in the graduate program either by formal coursework or, with the approval of the Advisory Committee, by independent study. In some cases, the Advisory Committee may decide to waive certain of these requirements, depending on the student's background, goals, and interests. Agreements regarding remedial coursework, independent study, or waivers should be recorded in the notes of the meeting in which they were discussed and included in the student's file.

For enrolled students the limit is 6 years to complete all requirements, with the possibility of extensions approved by the Graduate School for an additional 4 years.

Coursework

For a M.S. degree, the Graduate School has the following minimum course requirements:

1. 30 total semester hours of graduate course work, with a GPA of at least 3.0. Courses that count toward fulfillment of this requirement are those with numbers from 500 to 799, and all 400-level courses with a G suffix that are outside the student's major (thus PPA 400G does not count for this requirement).
2. 16 hours of graduate course work in regular courses. PPA 768 , PPA 784 and PPA 794 do not count for fulfillment of this requirement
3. 12 hours of graduate course work in the student's major area (PPA).
4. 12 hours in 600 or 700 level courses.

Thesis

A Master's thesis must represent an original scholarly contribution by the student. This should not discourage collaboration by students in larger, multi-authored projects, but collaborative research must be undertaken very carefully to ensure that the student's contribution represents a complete, self-contained piece of work that can easily be considered an independent accomplishment. It is the responsibility of the student, the Major Professor, and the Advisory Committee to ensure that this is the case. Basic Course Requirements: All students are strongly encouraged to take PPA 400G (Principles of Plant Pathology), even if they have had a similar course previously. This course provides a common basis for subsequent required courses in the department and will allow international students to become conversant with domestic terminology and perspective in the discipline. Required courses for both the M.S. and Ph.D. are PPA 500 PHYSIOLOGY OF PLANT HEALTH AND DISEASE, PPA 600 CRITICAL METHODS IN PLANT-MICROBE INTERACTIONS, PPA 640 IDENTIFICATION OF PLANT DISEASES, PPA 641 PLANT DISEASE, POPULATION BIOLOGY, AND BIOTECHNOLOGY, and PPA 770 PLANT PATHOLOGY SEMINAR . Individual Course Requirements: Elective courses will be determined by the student together with the Major Professor and Advisory Committee, taking into account the student's background, research topic, and area of specialization.

Plan B

During the first semester, the student will be assigned an advisor selected from the faculty in PPA with interests consistent with those of the student. Working with the faculty advisor, the student will complete a Program of Study having the depth and breadth to satisfy the requirements of the degree: The Program of Study should have, (1) an emphasis in a major area of plant pathology, and (2) a breadth of study in other

areas of plant pathology such as biotechnology, molecular and cytological studies. During the student's first term of enrollment, the Program of Study must be submitted to the major professor for approval. By the beginning of his or her last semester, the student working with the faculty advisor, should submit faculty names to the DGS for final approval to form an advisory committee who will administer the exit exam. The DGS must approve all advisory committee members. This three-person committee is chosen from members of the graduate faculty in PPA who have agreed to serve. This committee will continue to advise the student and will administer the exit exam before the degree is awarded. Non-thesis (Plan B) Master's students in PPA must fulfill the general requirements as outlined by the Graduate School. Thirty (30) credit hours are required for the degree and students must pass a written exit exam in the last semester. The coursework requirements follow those set out by the Graduate School.

At least 20 credit hours must be graded graduate level courses (courses other than research or residency courses and that have a set meeting time), and at least 15 hours must be at the 600-700 level. Students may take courses numbered as 4xxG and 5xx in other departments with approval of the DGS. For the in-depth requirement of the degree, students are required to take a minimum of 20 credits in 500 or above level courses in PPA or other related programs such as IPSS, ENTO, etc. Of these, one credit hour must be taken as graduate seminar in PPA 770 or a relevant offering in another department with approval of the DGS. The exit exam will be at the end of the coursework, administered by the three-person committee to ensure the student is sufficiently familiar with scholarship in her/his chosen area of specialty,

Typically, the Department of Plant Pathology will not offer non-thesis M.S. students an assistantship. Students are expected to pay their tuition through other means. There are opportunities on a term by term basis for Plan B students to assist teaching PPA lab courses. Other sources of financial aid within UK or externally are also possible and the DGS will help to identify opportunities.

Psychology - Clinical Psychology, MS

Students earn a MA/MS degree as part of their milestone towards earning their doctoral degree in the Clinical Psychology PhD program. The MA/MS degree in Clinical Psychology is not intended to be a stand-alone or terminal degree program. Students seeking only a MA or MS degree are not admitted to the program.

The Ph.D. program in Clinical provides academic courses, practica, and internships which permit students to combine their teaching and research activities with a clinical career in the mental health field. Special areas of expertise among clinical faculty include psychological assessment, child clinical psychology, health psychology, neuropsychology, personality, psychopathology and diagnosis, psychotherapy, research methodologies, and substance abuse. Clinical training is facilitated by early placement of students at a variety of sites including medical centers, a federal corrections facility, community mental health centers, state and private psychiatric hospitals, and the department's own psychological clinic. Our doctoral program is accredited by the American Psychological Association and by the Psychological Clinical Science Accreditation System.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Health Psychology Concentration
- Neuropsychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 30

Core requirements

- See requirements for Clinical Psychology PhD program

General information on electives

- Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Psychology - Experimental Psychology, MS

Students earn a MA/MS degree as part of their milestone towards earning their doctoral degree in the Experimental Psychology PhD program. The MA/MS degree in Experimental Psychology is not intended to be a stand-alone or terminal degree program. Students seeking only a MA or MS degree are not admitted to the program.

The Ph.D. program in experimental psychology is subdivided into cognitive neuroscience, and developmental, social, and health psychology. The Cognitive Neuroscience program is intended for students who wish to study the underlying neural systems of cognitive processes. It provides a strong background in both systems-level neuroscience and cognitive psychology and allows students to develop integrative research interests that cross domains. Research includes a range of topics and methodologies aimed at understanding mechanisms of behavior in laboratory animals and human subjects. Drug use and addictive behaviors are a key focus. Levels of analysis include cellular function, animal behavior, and human substance users. Methodologies include electrochemical measurements, chemogenetics, neuronal cell culture, psychopharmacology, analytical chemistry, quantitative modeling of cognitive functions and decision-making, and fMRI. In the Developmental, Social, Health program, students typically receive primary conceptual and methodological training in Developmental Psychology, Social Psychology, OR Health

Psychology (each are "tracks" within our program). This training will reflect the expertise of your advisor (and lab) in their respective subfield (e.g., Social Psychology) and will prepare you for the academic job market in this subfield. As some faculty in the Developmental, Social, and Health program are truly "hybrid" psychologists (equivalent expertise in Social and Developmental Psychology, for example), students may also gear training across subfields by pursuing relevant coursework, research collaborations, teaching experiences, etc.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Cognitive Neuroscience Area
- Developmental, Social, & Health Area
- Health Psychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 30

Core requirements

- See requirements for Experimental Psychology PhD program

General information on electives

- Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Research Methods In Education, MS

The Master of Science in Research Methods in Education (RMinE) prepares students for careers in settings such as academic institutions, testing organizations, school districts, and state and federal agencies. It is designed to provide a foundation in basic research methods within a problem-of-practice framework while allowing students a focused area of emphasis on Quantitative Methods, Evaluation, or Research Design. RMinE students have the option to complete the entirety of their coursework online.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A 250-word statement of purpose describing the student's intellectual and professional goals for completing the program
- Two letters of reference with at least one from a referee familiar with the students' academic work
- Resume or Curriculum Vitae
- Applications are reviewed on a rolling basis; apply anytime.

Degree Requirements

- The program requires 37 hours of coursework, all of which is available online.
- All EPE students are required to take EPE601 Proseminar (1 credit hour) during their first semester of study in the department.
- Core Classes (18 credit hours) include:
 - EPE 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA /EPE 558 GATHERING, ANALYZING & USING EDUCATIONAL DATA II
 - EPE 571 WRITING SEMINAR IN EDUCATIONAL RESEARCH
 - EPE 619 SURVEY RESEARCH METHODS IN EDUCATION (SUBTITLE REQUIRED)
 - EPE 620 TOPICS AND METHODS OF EVALUATION
 - EPE 663 FIELD STUDIES IN EDUCATIONAL INSTITUTIONS or EPE 797 HISTORICAL RESEARCH ON EDUCATION
 - 3 credit hour Contextual Studies Course
- Choice of Concentration (6 credit hours)
 - Quantitative Methods (EPE 558 GATHERING, ANALYZING & USING EDUCATIONAL DATA II and EPE 660 RESEARCH DESIGN AND ANALYSIS IN EDUCATION)
 - Evaluation (EPE 522 PSYCHOLOGICAL AND EDUCATIONAL TESTS AND MEASUREMENTS and EPE 621 ADVANCED TOPICS AND METHODS OF EVALUATION)
 - Research Design (EDP 656 METHODOLOGY OF EDUCATIONAL RESEARCH and EPE 797 HISTORICAL RESEARCH ON EDUCATION)
- Guided Electives (12 credit hours chosen in consultation with the student's advisor)

- A student's program of study may vary from this structure if they receive approval from their major advisor
- Masters Exam: At the end of the program, RMinE students are expected to be able to implement an evaluation, create and test an assessment, or design and conduct an advanced quantitative research study. RMinE students are required to write and be examined on a scholarly paper in order to graduate from the program.

Science Translation and Outreach, MS

The College of Agriculture, Food, and Environment offers a fully online Master of Science (MS) degree in Science Translation and Outreach (Plan B Non-thesis option).

This transdisciplinary non-thesis Master of Science degree program builds student capacity to:

1. Assess public needs and interests with respect to agriculture, food and environment
2. Identify, sort and interpret credible scientific information from diverse fields relevant to public concerns
3. Use scientific information to create successful programs in applied research and outreach which effectively address public concerns.

Admission Requirements

- Completion of an undergraduate degree
- One to two-page resume or CV
- Personal statement describing your background and interest in the program
- Official transcripts from all post-secondary studies
- Three letters of recommendation

Degree Requirements

- Science Translation and Outreach students complete 12 hours of core courses and 18 hours of elective courses.
- You will create your individualized plan of study with the help of a faculty committee and culminate your degree with a real-world capstone outreach or research project.
- Four core courses:
 - STO 601 PROGRAM DEVELOPMENT AND EVALUATION (3 credit hours; CLD 665/SOC 665)
 - STO 602 SCIENCE LITERACY AND TRANSLATION (3 credit hours)
 - STO 603 RESEARCH METHODS (3 credit hours)
 - STO 650 CAPSTONE IN SCIENCE TRANSLATION AND OUTREACH (3 credit hours)

- Elective courses are selected and justified as a part of a personalized plan of study with the approval of a student's advisory committee and the STO Director of Graduate Studies.
- <https://sto.ca.uky.edu/>

Sport and Exercise Psychology, MS

The field of sport and exercise psychology is an interdisciplinary science that explores the relationship between various psychological factors and participation in sport and/or physical activity. The two-year program in the Department of Kinesiology and Health Promotion offers students the choice to pursue a graduate education in the field of sport and exercise psychology by either following an applied or research track. Each option integrates theory-based research and the application of key concepts associated with performance enhancement and life skill development. In this context, successful completion of this program will result in a strong understanding of the various psychosocial factors that influence sport participation and performance. Upon admission to the program, students will be assigned a faculty advisor who will assist in course selection and planning. The exact program of study specified in an individual program plan will depend on previous coursework and/or individual goals.

Admission Requirements

Applicants must meet the following criteria for admission:

- An undergraduate degree in a field closely related to sport and exercise psychology (e.g., psychology, exercise science, health sciences, sport management, etc.).
- A minimum cumulative undergraduate GPA of 2.75 (on 4.0 scale)

Application Requirements

- Official undergraduate transcript
- An updated CV or professional resume
- Three letters of recommendation. At least two from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).
- A professional goal statement describing the applicants professional background, motivations for seeking a graduate education in SEP, why the current program and desired track are an ideal fit, and career/research aspirations.

Degree Requirements

Disciplinary Core Required Courses:

- KHP 547 PSYCHOLOGY OF SPORT AND PHYSICAL ACTIVITY (3)
- KHP 580 GROUP DYNAMICS IN SPORT AND PHYSICAL ACTIVITY (3)
- KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3)

Suggested Electives (Choose 3):

- EDP 614 MOTIVATION AND LEARNING (3)
- KHP 605 PSYCHOLOGICAL ASPECTS OF SPORT INJURY AND REHABILITATION (3)

- KHP 673 HEALTH PROMOTION AND BEHAVIOR CHANGE (3)
- KHP 674 FOUNDATIONS OF HEALTH PROMOTION (3)
- KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT (3)
- KHP 683 LEADERSHIP, THEORY, AND PRACTICE IN SPORT AND FITNESS ORGANIZATIONS (3)
- KHP 720 SPORTS MEDICINE (3)

TOTAL: 18 credit hours

Professional Practice Core Required Courses:

- EDP 605 INTRODUCTION TO COUNSELING: TECHNIQUES I (3)
- EDP 688 ETHICAL AND LEGAL ISSUES IN PSYCHOLOGY (3)
- KHP 689 INTERNSHIP IN SPORT AND EXERCISE PSYCHOLOGY (150 hours per 3.0 credit hours) (6)

Suggested Electives (Choose 1):

- EDP 600 LIFE SPAN HUMAN DEVELOPMENT AND BEHAVIOR (3)
- EDP 642 INDIVIDUAL ASSESSMENT OF PERSONALITY FUNCTIONING (3)
- EDP 649 GROUP COUNSELING (3)
- EDP 650 DIAGNOSIS AND PSYCHOPATHOLOGY IN COUNSELING PSYCHOLOGY (3)
- EDP 777 SEMINAR IN COUNSELING PSYCHOLOGY (3)
- SW 530 RESPONDING TO MILITARY AND VETERAN POPULATIONS (3)

TOTAL: 15 credit hours

Statistics/Research Design Disciplinary Core Required Courses:

- EDP 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA (3) OR EDP 558 GATHERING, ANALYZING & USING EDUC DATA (3)
- KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3)

TOTAL: 6 credit hours

Sport Psychology Disciplinary Core Required Courses:

- KHP 547 PSYCHOLOGY OF SPORT AND PHYSICAL ACTIVITY (3)
- KHP 580 GROUP DYNAMICS IN SPORT AND PHYSICAL ACTIVITY (3)
- KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3)

Suggested Electives (Choose 2):

- EDP 614 MOTIVATION AND LEARNING (3)
- KHP 605 PSYCHOLOGICAL ASPECTS OF SPORT INJURY AND REHABILITATION
- KHP 673 HEALTH PROMOTION AND BEHAVIOR CHANGE
- KHP 674 FOUNDATIONS OF HEALTH PROMOTION
- KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT
- KHP 683 LEADERSHIP, THEORY, AND PRACTICE IN SPORT AND FITNESS ORGANIZATIONS

- KHP 720/AT 720 SPORTS MEDICINE (3)

TOTAL: 15 credit hours

Sport Psychology Professional Practice Core Required Course:

- EDP 605 INTRODUCTION TO COUNSELING: TECHNIQUES I (3)

Suggested Electives (Choose 2):

- EDP 600 LIFE SPAN HUMAN DEVELOPMENT AND BEHAVIOR
- EDP 642 INDIVIDUAL ASSESSMENT OF PERSONALITY FUNCTIONING
- EDP 649 GROUP COUNSELING
- EDP 688 ETHICAL AND LEGAL ISSUES IN PSYCHOLOGY
- EDP 777 SEMINAR IN COUNSELING PSYCHOLOGY
- SW 530 RESPONDING TO MILITARY AND VETERAN POPULATIONS (3)

TOTAL: 9 credit hours

Statistics/Research Design Disciplinary Core Required Courses:

- EPE 558 GATHERING, ANALYZING & USING EDUCATIONAL DATA II (3)
- KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3)
- KHP 748 MASTER'S THESIS RESEARCH (3)

Suggested Electives (Choose 1)

- KHP 695 INDEPENDENT STUDY IN KINESIOLOGY AND HEALTH PROMOTION (3)
- EDP 660 RESEARCH DESIGN AND ANALYSIS IN EDUCATION (3)
- SW 772 INTRODUCTION TO QUALITATIVE RESEARCH (3)

TOTAL: 15 credit hours

PROGRAM TOTAL: 39 credit hours (minimum)

Statistics, MS

The Department of Statistics offers programs of study leading to the degrees of Master of Science (Plan A or B available), Doctor of Philosophy, and Master of Applied Statistics (Online). The M.S. degree is professionally oriented for the student who plans a career in government, business or industry and is preparatory for the Ph.D. The Ph.D. program offers a broad training in both statistical theory and methods while affording options to suit the student's interests. The statistics Ph.D. is well-suited for academic, business, government and industrial positions. In addition to formal course work and research training, the advanced student has opportunities to gain valuable practical experience by participating in consulting activities under faculty supervision. Master of Applied Statistics is an innovative,online professional graduate degree which is designed to train professional, practice-oriented statisticians who have both data analytic and computing skills.

Both, the M.S. and the Ph.D. program offer a Mathematical Statistics track, as well as a Biostatistics track. The latter tracks are designed for students who envision a future at the interface of Statistics and the Life Sciences.

Course work is available in areas associated with statistics such as biological modeling, probability, inference, experimental design and analysis, computational statistics, nonparametric methods, Bayesian analysis, mixed modeling, multivariate analysis, survival analysis, clinical trials, and many other selected topics of the student's choice.

The University of Kentucky is represented on the Committee on Statistics of the Southern Regional Education Board.

Admission Requirements

Students with an undergraduate major in any of the mathematical, physical, biological, social or applied sciences are encouraged to apply.

The minimum GRE and GPA admissions requirements for the M.S. and Ph.D. programs in Statistics are the same as for the Graduate School. However, the number of admissions is limited and admissions decisions are made on a competitive basis. All M.S. applicants must have successfully completed a three or four semester sequence in calculus and a course in linear algebra and have good communication skills. In addition, all Ph.D. applicants must have mastered the equivalent of MA 471G. All Master of Applied Statistics applicants must have completed two semesters of calculus and a course in statistical methodology. Students wishing to apply for teaching assistantships and/or fellowships must submit three letters of recommendation. Applicants wishing to be admitted directly to the Ph.D. program must have an M.S. in Statistics and the permission of the Director of Graduate Studies.

Please see the departmental website for up-to-date information and answers to frequently asked questions about the admissions process.

Degree Requirements

The Statistics Department offers the degree of Master of Science with (Plan A) or without (Plan B) a thesis, and in two different tracks: a Mathematical Statistics track and a Biostatistics track.

Shared Core (Required for all students)

- STA 602 INTRODUCTION TO STATISTICAL METHODS (4)
- STA 603 INTRODUCTION TO LINEAR MODELS AND EXPERIMENTAL DESIGN (4)
- STA 605 COMPUTATIONAL INFERENCE (3)
- STA 606 THEORY OF STATISTICAL INFERENCE I (3)
- STA 623 THEORY OF PROBABILITY (3)
- STA 632 LONGITUDINAL DATA ANALYSIS (3)

Mathematical Statistics Track

Curriculum requirements for the Mathematical Statistics track are the shared core courses above, plus the following courses:

- STA 607 THEORY OF STATISTICAL INFERENCE II (3)
- STA 624 APPLIED STOCHASTIC PROCESSES (3)
- STA 643 ADVANCED EXPERIMENTAL DESIGN (3)

Biostatistics Track

Curriculum requirements in the Biostatistics track are the shared core courses above, plus:

- STA 635 SURVIVABILITY AND LIFE TESTING (3)
- STA 653 CLINICAL TRIALS (3)
- STA 665 ANALYSIS OF CATEGORICAL DATA (3)
- STA 693 BIOSTATISTICAL PRACTICUM (2) 1 unit course in each of the two semesters in the second year

Programs of study for Plan B require a total of at least 35 semester hours. Students will typically fulfill this requirement by taking electives (additional courses besides the shared core and track requirements) in the Fall and Spring of their second year. Programs of study for Plan A (with thesis) require a total of at least 30 semester hours which are satisfied by either of the two course lists above plus 1 or more hours of STA 768 or additional coursework.

The electives can be selected from the menu of courses listed below. Before the end of the second semester, the M.S. candidate must present a proposed plan of study for approval by the Director of Graduate Studies. There are no formal minor requirements.

Comprehensive Exams

All master's candidates are required to pass a comprehensive departmental written examination on the content of the courses STA 602 , STA 603 , STA 605 , STA 606 , and STA 623 . This examination is normally administered in late May/early June. It is truly comprehensive also in the sense that all parts must be taken together: If a student decides not to take a part of the examination, that part is automatically counted as failed. Students taking the comprehensive exam will receive either a pass at the doctoral level, a pass at the master's level, or a failure. The examination may be repeated only once. Successful completion of the comprehensive examination at the doctoral level is required for admission into the PhD program.

Electives

The electives may be chosen from any course in the following menu that is NOT used as a track requirement.

- MA 471G ADVANCED CALCULUS I (3)
- STA 607 THEORY OF STATISTICAL INFERENCE II (3)
- STA 612 SEQUENTIAL ANALYSIS (3)
- STA 616 Design and Analysis of Sample Surveys (3)
- STA 621 NONPARAMETRIC INFERENCE (3)
- STA 624 APPLIED STOCHASTIC PROCESSES (3)
- STA 626 TIME SERIES ANALYSIS (3)
- STA 630 BAYESIAN INFERENCE (3)
- CPH 631 (3) Design and Analysis of Health Survey
- STA 635 SURVIVABILITY AND LIFE TESTING (3)
- CPH 636 Data Mining in Public Health (3)
- STA 643 ADVANCED EXPERIMENTAL DESIGN (3)

- STA 644 ADVANCED LINEAR AND NONLINEAR MODELS (3)
- STA 653 CLINICAL TRIALS (3)
- STA 661 MULTIVARIATE ANALYSIS I (3)
- STA 662 RESAMPLING AND RELATED METHODS (3)
- CPH 664 (3) Design and Analysis of Clinical Trials
- STA 665 ANALYSIS OF CATEGORICAL DATA (3)

Any course on this list NOT required for the chosen track may be used as an elective. Thus, for example, STA 665 would count as an elective for the Mathematical Statistics track, but it is a track requirement for the Biostatistics track. Similarly, STA 624 would be an elective for the Biostatistics track but is a track requirement for the Mathematical Statistics track.

A student who takes both STA 653 and CPH 664 may only receive credit towards the degree for one of these two courses.

All students, master's and doctoral, will be required to take part in an internship program. This will usually consist of teaching (three or six semester hours) or an equivalent amount of work in a research assistantship working with researchers across campus.

Strategic Human Resource Management and Analytics, MS

The Master of Science in Strategic Human Resource Management and Analytics (MS-SHRMA) offered in the Gatton College of Business and Economics prepares students with the knowledge, skills, and abilities needed to elevate a career in HR. In addition to fundamental HR courses, students will be exposed to coursework in HR-based analytics (people analytics, organizational network analysis, research methods, and HRIS) as well as strategic HR (strategic planning and integration, change management, and negotiations and conflict resolution). The program includes an experiential capstone course giving students the opportunity to apply principles and techniques learned in their coursework to solve real organizational problems.

Admission Requirements

- Bachelor's degree
- Minimum undergraduate GPA of 2.75
- Information for three references
- Interview (upon request)
- Current resume or CV

Degree Requirements

30 total credit hours consisting of:

- 24 required credit hours (MGT 650 MGT 651 MGT 652 MGT 653 MGT 660 MGT 667 MGT 668 MGT 670)
- 3 elective credit hours in strategic HR (MGT 612 or MGT 661)
- 3 elective credit hours in HR analytics (MGT 663 or MGT 664)
- Other elective courses may also apply with DGS permission
- Academic performance consistent with Graduate School standards pertaining to individual courses and overall GPA

Further program details can be found at <https://gatton.uky.edu/programs/masters/master-science-strategic-human-resources-management-and-analytics>

Supply Chain Management, MS

The Master of Science with a major in Supply Chain Management program is offered by the Department of Marketing and Supply Chain, Gatton College of Business and Economics. The first and only program of its kind in Kentucky, the MSSCM degree prepares students for a professional career in the operations and supply chain management field. It is a one-year, 30-credit hour program that blends end-to-end supply chain concepts like strategic sourcing and channel management with big data analytics, cross-functional business knowledge, and hands-on, industry experience. It offers small class sizes and individual faculty attention.

Students learn to apply analytical, critical and logical reasoning skills to solve real-world supply chain challenges. They also learn to use business application software to assist decision making in a global supply chain setting. In addition, the program offer students opportunities to work with Gatton's industry partners and apply knowledge and skills in a capstone project. It is designed to prepare students for many professions in supply chain management, including general and operations manager, industrial production manager, purchasing manager, transportation, storage and distribution manager, logistician, business operations specialist, and operations research analyst.

Admission Requirements

- Bachelor's degree in any major from a 4-year college with a minimum undergraduate GPA of 2.75.
- Students are required to have completed and earned a C or above in at least one college level statistic course, such as STA 296 (Statistical Methods), STA 381 (Engineering Statistics) or ECO 391 (Economic and Business Statistics).
- International students need to submit TOEFL or IELTS scores. The minimum acceptable TOEFL score is 550 (paper-based), 213 (computer-based), or 79 (internet-based). The minimum IELTS score is 6.5.

Degree Requirements

Minimum 30 credits are required to graduate from the program. There are nine required core courses with 27-credits:

- MKT 630 SUPPLY CHAIN FUNDAMENTALS AND STRATEGY
- MKT 631 PRODUCTION AND OPERATIONS MANAGEMENT
- MKT 632 SUPPLY CHAIN MODELING & ANALYSIS
- MKT 633 APPLIED DATA ANALYTICS
- MKT 634 QUALITY MANAGEMENT & LEAN OPERATIONS
- MKT 635 LOGISTICS MANAGEMENT
- MKT 636 SOURCING, PURCHASING & CONTRACT MANAGEMENT
- MKT 637 NEGOTIATION IN THE SUPPLY CHAIN
- MKT 740 INDUSTRY PROJECT

Choose from the following list for one elective course (3-credits):

- MFS 613 SUSTAINABILITY, ETHICS, AND LEADERSHIP IN MANUFACTURING ORGANIZATIONS
- SCE 614 SUSTAINABLE PRODUCTION SYSTEMS AND SUPPLY CHAINS
- MFS 606 GLOBAL ISSUES IN MANUFACTURING
- MKT 530 SERVICES MARKETING MANAGEMENT
- MGT 610 GLOBAL MANAGEMENT
- MGT 697 LEADERSHIP, COMMUNICATIONS & ETHICS
- CPH 600 HEALTH SERVICES AND SYSTEMS ORGANIZATION
- PA 602 STRATEGIC PLANNING AND ORGANIZATIONAL CHANGE IN THE PUBLIC AND NON-PROFIT SECTORS
- HMT 588 STRATEGIC MANAGEMENT IN THE HOSPITALITY & FOOD SERVICE INDUSTRY

Program website: <https://gatton.uky.edu/programs/masters/master-science-supply-chain>

Toxicology, MS

The Department of Toxicology and Cancer Biology is a multidisciplinary unit for research, graduate education, and professional training in the broad areas of Toxicology and Cancer Biology. The program was founded in 1969 in the Graduate School, as one of nation's first Ph.D. programs in Toxicology and moved to College of Medicine (COM) in 2004. Our education mission is to provide students with an education in Toxicology and Cancer Biology that is based on an understanding of biochemistry, physiology, molecular/cell biology, genetics and metabolism, coupled with in-depth research experience on the mechanisms by which specific agents induce toxicity, and/or the basic cellular processes upon which environmental agents impact to cause disease. In addition, the department provides the only Master of Forensic Toxicology and Analytical Genetics (or degree of comparable nature) in the state and it is only the fifth such professional master's degree in the field of forensics in the nation.

The department is housed in the Health Sciences Research Building in the Medical Center within easy walking distance of all major research units and colleges. Excellent research support facilities are available, including transgenic mouse, macromolecular structure, mass spectrometry, nuclear magnetic resonance, proteomics, genomics, and metabolomics.

Our department consists of tenured/tenure track Core Faculty with a primary appointment in Toxicology and Cancer Biology, and is enhanced by faculty who have Joint Appointments in the department, but whose primary appointments are in Departments and Colleges across the University. The Department of Toxicology and Cancer Biology has graduated more than 150 PhDs in Toxicology who have gone on to careers in academia, government, such as the Environmental Protection Agency (EPA) and the Food and

Drug Administration (FDA), and in the pharmaceutical and chemical industry. The department maintains a robust extramurally supported training environment, including an NIEHS T32 training grant for doctoral students in toxicology, which has been continuously funded since 1990 and has been renewed for funding until 2021.

For more information please visit <https://toxicology.med.uky.edu/tox-graduate-research-masters-degree>

Admission Requirements

Applicants must meet the following requirements for admission to the University of Kentucky Graduate School and the Toxicology and Cancer Biology program.

- An appropriate degree (e.g., Chemistry, Biological Sciences) from an accredited college or university.
- A minimum grade point average of 3.0 on a 4.0 scale.
- A Graduate Record Examination (GRE) score is not required.
- For international applicants, the minimum acceptable TOFEL score is 550 (paper-based), 213 (computer-based), or 79 (internet-based). The minimum IELTS score is 6.5.

More information on how to apply can be found here <https://toxicology.med.uky.edu/graduate-program>

Degree Requirements

Complete 20 hours of Core Courses:

- IBS 601 BIOMOLECULES AND METABOLISM (3)
- IBS 602 MOLECULAR BIOLOGY AND GENETICS (3)
- IBS 603 CELL BIOLOGY AND SIGNALING (3)
- TOX 509 ENVIRONMENTAL AND REGULATORY TOXICOLOGY (2)
- TOX 600 ETHICS IN SCIENTIFIC RESEARCH (1)
- TOX 680 MOLECULAR TOXICOLOGY AND CARCINOGENESIS (3)
- IBS 611 PRACTICAL STATISTICS (1)
- TOX 770 TOXICOLOGY AND CANCER BIOLOGY SEMINAR (4 semesters X 1 credit) (4)

Plan A (Thesis) Minimum Hours Requirement: Complete a minimum of 30 hours of graduate courses to include, if desired, no more than 6 credit hours of TOX 768 and submission of a Thesis.

Plan B (non-thesis) Minimum Hours Requirement: Earn a minimum of 30 hours of graduate courses.

Urban and Environmental Design, MS

The Master of Science in Urban & Environmental Design (MUED) at the UK College of Design is dedicated to helping students think critically about emerging urban and environmental design problems through real-world projects and future-oriented ideas. The one-year program introduces students to the complexity of urban and rural environments - from the varying spectrum of stakeholders to the bounds of existing infrastructures - and promotes an interdisciplinary approach to designing sustainable communities.

The curriculum is studio-based to develop an ethic of collaboration and critical thinking among students, faculty and community members. From these relationships, projects emerge that seek inventive ideas to specific design challenges. Students take a diversified sequence of courses that includes history and theory of urban and environmental design, visualization techniques, policy analysis, and socioeconomic research.

The MUED offers flexible degree options for a variety of student backgrounds and design experience levels. Students with no formal design background are encouraged to apply.

Admission Requirements

- Portfolio: The Master of Science in Urban and Environmental Design (MUED) offers flexible degree options for a variety of student backgrounds and design experience levels. Students with no formal design background are encouraged to apply.
 - OPTION 1 is for students with both a prior design degree. This option can be completed in one year (Fall, Spring, and Summer). A portfolio is required to apply.
 - OPTION 2 is for students with no formal design background and requires a foundational studio sequence as a prerequisite for admission to the MUED program. This option can be completed in two years and does not require a portfolio for admission.
- GRE
- Three letters of recommendation
- Application Deadlines:
 - Summer: March 1
 - Fall: March 1

Degree Requirements

MUED Curriculum (Prior Design Degree)

Semester 1 Fall

- UED 601 URBAN AND ENVIRONMENTAL DESIGN STUDIO I 5 hours
- UED 611 VISUALIZATION AND REPRESENTATION 2 hours

- Elective 3 hours

Semester 2 Spring

- UED 602 URBAN AND ENVIRONMENTAL DESIGN STUDIO II 5 hours
- UED 651 HISTORY AND THEORY OF URBAN AND ENVIRONMENTAL DESIGN 3 hours
- HP 602 HISTORIC PRESERVATION LAW 3 hours
- Elective 3 hours

Semester 3 Summer

- UED 612 RESEARCH DESIGN AND METHODS IN URBAN AND ENVIRONMENTAL DESIGN 1 hour
- UED 701 URBAN AND ENVIRONMENTAL DESIGN PROJECT 5 hours (students should enroll in this course if they are completing a design capstone project)
- UED 711 URBAN AND ENVIRONMENTAL DESIGN THESIS 5 hours (students should enroll in this course if they are completing a design thesis)

Total: 30 hours

MUED Curriculum (Non-Design Background)

Semester 1 Fall

- UED 511 URBAN AND ENVIRONMENTAL DESIGN STUDIO PRIMER 5 hours
- UED 611 VISUALIZATION AND REPRESENTATION 2 hours
- UED 501 INTRODUCTION TO URBAN AND ENVIRONMENTAL DESIGN 3 hours

Semester 2 Spring

- UED 601 URBAN AND ENVIRONMENTAL DESIGN STUDIO I 5 hours
- HP 602 HISTORIC PRESERVATION LAW 3 hours

Semester 3 Fall

- UED 602 URBAN AND ENVIRONMENTAL DESIGN STUDIO II 5 hours
- UED 651 HISTORY AND THEORY OF URBAN AND ENVIRONMENTAL DESIGN 3 hours
- Elective 3 hours

Semester 4 Spring

- UED 612 RESEARCH DESIGN AND METHODS IN URBAN AND ENVIRONMENTAL DESIGN 1 hour

- Elective 3 hours
- UED 701 URBAN AND ENVIRONMENTAL DESIGN PROJECT 5 hours (students should enroll in this course if they are completing a design capstone project)
- UED 711 URBAN AND ENVIRONMENTAL DESIGN THESIS 5 hours (students should enroll in this course if they are completing a design thesis)

Total: 38 hours

Veterinary Science, MS

The overall mission of the Veterinary Science graduate program is to train students to become creative and critical thinking scientists with the contemporary skills and knowledge to perform independent research and to effectively communicate their results. The primary goal of research in the Veterinary Science program is to improve our understanding of the biology of Equidae, with emphasis placed on investigating the causes and mechanisms that affect the production and performance of horses, regardless of breed.

Veterinary Science offers both the Master of Science (MS) and the Doctor of Philosophy (PhD) degrees, with specialization in infectious disease, parasitology, immunology, genetics, reproductive physiology, pharmacology, and musculoskeletal sciences. Each of these subspecialties has a general emphasis on the horse.

Admission Requirements

Applicants need a strong academic background with undergraduate course preparation in biology, chemistry and mathematics. Students accepted into the program should have an appropriate degree (i.e., in a STEM discipline) from an accredited institution, a minimum grade point average (GPA) of 3.0 on a 4.0 scale and a combined score (verbal plus quantitative) on the Graduate Record Examination (GRE) of not less than 300. Applicants with lesser qualifications will be accepted only on the recommendation of a graduate faculty member who is willing to support financially and serve as the research advisor for the student and with the approval of our full graduate faculty.

Degree Requirements

Students enrolled in the MS program must meet the Graduate School Requirements of at least 30 credit hours of coursework, to include 6 credit hours of VS 768 (Residence Credit for the Master's Degree).

Students pursuing both the MS and PhD in Veterinary Science must take two semesters of graduate-level biochemistry/molecular/cell biology (selected from CHE 550 & CHE 552 OR IBS 601 IBS 602 IBS 603 IBS 606) and one semester of graduate-level statistics (STA 570 or STA 580) or demonstrate equivalent coursework completed elsewhere. Students in the MS program must enroll in VS 770 VETERINARY SCIENCE SEMINAR, and give a presentation in at least one semester. Students in the PhD program must enroll in VS 770 and give presentations in at least 2 semesters. As well, VS 600 ETHICS IN SCIENTIFIC RESEARCH, is strongly recommended.

Any additional coursework is determined by each student in concert with their major advisor.

Master of Science in Accounting

Accounting, MSAC

The accounting profession includes a variety of career opportunities. Whether you decide to go into public or private accounting, your options are practically unlimited. Choose a career in companies of all sizes, where you can work in numerous areas, including auditing, taxation, financial accounting and reporting, management accounting, financial analysis, and governmental accounting. The Master of Science in Accounting (MSACC) program is a 30-credit hour program that guides students through a modular sequence of courses that coincides with the CPA exam. Candidates who already have an undergraduate accounting degree can complete the program in just 10 months while having the opportunity to study and sit for the CPA exam. Our Bridge Program for non-accounting majors can be completed in as little as 14 months while also allowing candidates the opportunity to study and sit for the CPA exam.

Admission Requirements

All majors are encouraged to apply. Applicants will be evaluated for admission based upon their undergraduate and/or accounting coursework grade point averages, essay responses, reference evaluations, and their TOEFL score (if applicable).

- Applicants must have earned an A or B letter grade in the following courses or their equivalent. These courses must be based upon U.S. GAAP, US auditing standards, and IRS tax law.
 - Financial Accounting (ACC 201)
 - Managerial Accounting (ACC 202)
 - Intermediate Accounting I (ACC 301)
 - Intermediate Accounting II (ACC 302)
 - Accounting Information Systems (ACC 324)
 - Auditing (ACC 403)
 - Concepts of Income Taxation (ACC 407)
- Undergraduate accounting GPA of 3.2 or greater
- Overall GPA of 3.0 or greater
- Three references from former professors for non-UK students
- Essay - In 800 to 900 words, discuss the reasons you wish to pursue a MSACC degree at the University of Kentucky's Von Allmen School of Accountancy. Please address the following in your essay:
 - Academic preparation and accomplishments for graduate study
 - Leadership qualities and motivation
 - Previous accounting and/or relevant work experience
 - Expectations for the MSACC program
 - Your short-term and long-term goals and how a MSACC degree will help achieve these goals
 - Any additional information you feel is relevant

- International applicants must also submit Official TOEFL score with a minimum TOEFL IBT score of 90 or IELTS score of 7, or score at least 30 on the verbal section of the GMAT exam. Waived for students with U.S. degrees.

Degree Requirements

The 30 credit MSACC program requires candidates to complete 24 credits of required courses and 6 credits in open electives. The required courses are:

- ACC 507 ADVANCED TOPICS IN TAXATION
- ACC 516 ADVANCED TOPICS IN FINANCIAL REPORTING
- ACC 601 RESEARCH IN ACCOUNTING THEORY
- ACC 603 ATTEST FUNCTION
- ACC 617 SELECTED TOPICS IN TAXATION
- ACC 621 UNDERSTANDING FINANCIAL STATEMENTS
- ACC 624 ENTERPRISE INFORMATION AND CONTROL SYSTEMS
- MGT 641 LEGAL ISSUES IN THE ACCOUNTING PROFESSION

The two graduate elective courses can be selected from additional graduate level accounting courses or other business related graduate courses at the 500 and 600 level.

Applicants can learn more about the MSACC program by visiting the following website:

<https://gatton.uky.edu/programs/masters/master-science-accounting>

You can also email questions to the program director at johnsmigla@uky.edu

Master of Science in Biomedical Engineering

Biomedical Engineering, MSBE

The Master of Science (MS) degree offered by the F. Joseph Halcomb III, MD, Department of Biomedical Engineering at the University of Kentucky seeks to provide students with multidisciplinary experience in basic research, design, development, and practice. The program emphasizes the application of engineering principles to problems in medicine and biology. Students receive educational and research opportunities through the facilities and faculty of the department and its ideal geographic proximity and close ties to other units across the University, ranging from engineering to basic science to clinical departments.

Two options are available:

- MS thesis (Option A): 30 credits of coursework plus a research thesis.

- MS non-thesis (Option B): credits of coursework and a project report.

Admission Requirements

Applicants must meet the general requirements of The Graduate School and are expected to hold a baccalaureate degree from an ABET-accredited engineering program or its equivalent. Applicants with baccalaureates in non-engineering disciplines are considered on a case-by-case basis and may need to take supplementary coursework before official entry into the program; this can be determined by consulting the Director of Graduate Studies (DGS).

Admission to the graduate program normally requires a GPA of at least 3.0 on a 4.0 scale on all graduate and undergraduate work, valid scores on the Graduate Record Examination (GRE), a statement of the applicant's reasons for wanting to pursue graduate education in Biomedical Engineering, and letters of recommendation from three faculty members familiar with the applicant's record. Satisfying the above requirements does not guarantee admission to the program; at the same time, admission decisions are based on a holistic review of the application without regard to minimum grade or score requirements alone. Applications are reviewed by a committee of BME Faculty on a rolling basis.

Degree Requirements

Required coursework includes:

- BME 540 BIOMEDICAL INSTRUMENTATION
- BME 641 BIOMEDICAL SIGNAL PROCESSING I
- BME 609 BIOMEDICAL ENGINEERING ETHICS
- BME 688 BIOMATERIALS SCIENCE AND ENGINEERING
- BME 6xx Biomechanics Elective
- BME xxx Technical Elective
- BME 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE (Plan A)
- BME 772 SEMINAR (taken twice)
- PGY 412G PRINCIPLES OF HUMAN PHYSIOLOGY
- Math Elective
- Technical Elective

MS thesis (Option A):

- A 30-credit core curriculum plus a thesis on original guided research.

MS non-thesis (Option B):

- 31 credit hours of coursework and a project report.
- Enrollment in the non-thesis option must be requested within the first 9 credit hours of graduate course work and approved by the DGS.
- A Clinical Immersion program is offered under Option B, which provides enhanced experiential learning to prepare students for healthcare and related professions with unique competitive advantages.

For further information, contact the DGS at bmedgs@uky.edu or visit <https://www.engr.uky.edu/research-faculty/departments/biomedical-engineering>.

Master of Science in Biosystems and Agricultural Engineering

Biosystems and Agricultural Engineering, MSBAE

The objectives of the Biosystems and Agricultural Engineering graduate program are to develop and strengthen:

1. the ability to plan and conduct research and design involving the application of engineering science to biological and agricultural systems.
2. an understanding of mathematical, physical, and biological sciences that enables critical assessment of scientific literature in these and related fields.
3. the skills required to use precision instruments, techniques and computers in research and design.
4. the ability to make sound engineering and management decisions.
5. the ability to teach college level courses in Biosystems and Agricultural Engineering, particularly at the doctoral level.

Both a Plan A (Thesis) and Plan B (Non-thesis) are available.

Admission Requirements

Admission into the M.S. graduate program of the Biosystems and Agricultural Engineering Department requires the concurrence of the Department Graduate Committee, and the Director of Graduate Studies, and the Department Chair and the availability of an advisor for the student. The Biosystems and Agricultural Engineering Graduate Committee reviews the applicant's three letters of recommendation, resume, statement of professional objective and transcripts with special emphasis given to the science and mathematics area. The department requires a minimum grade point average of 2.8 and a GRE score of at least 1500. An engineering B.S. degree from an ABET-accredited engineering program (or international equivalent) is generally required, however, non-engineering students may be admitted by agreeing to take additional undergraduate courses specified by the graduate committee. Exceptions to these requirements are considered on a case-by-case basis, taking into account the materials described above as well as GRE scores.

Degree Requirements

Graduate students will combine courses in Biosystems and Agricultural Engineering, other engineering fields, the physical sciences, and the biological sciences to develop a program of study that facilitates these objectives. The advanced degrees, however, are primarily research degrees awarded for significant creative

research accomplishment, not for the completion of a specified number of courses. Therefore, the program normally concentrates on a strong thesis or dissertation problem completed under the supervision of the graduate faculty of the department. A design-oriented, non-thesis option is also available for the master's degree.

Plan A minimum requirements: Complete a minimum of 30 hours of graduate courses to include, if desired, no more than 6 credit hours of BAE 768, and submit a Thesis.

Plan B minimum requirements: Complete a minimum of 30 hours of graduate courses.

Master of Science in Chemical Engineering

Chemical Engineering, MSCHE

The Department of Chemical and Materials Engineering offers programs leading to the M.S. and Ph.D. degrees in Chemical Engineering, with research specialization in the following areas:

- Biomaterials
- Drug Delivery
- Energy and Batteries
- Environmental Engineering
- Interfacial Engineering
- Materials Synthesis and Nanomaterials
- Membranes/Advanced Separations
- Molecular Dynamics
- Nanomaterials
- Polymer Science and Engineering
- Process Design
- Water Treatment

Admission Requirements

Admission to the M.S. and Ph.D. degree programs is on a competitive basis, and financial assistance is available through teaching and research assistantships, as well as a limited number of fellowships. Applicants should have a minimum grade point average of 3.0/4.0 on all undergraduate work, and should hold a Bachelor of Science degree in Chemical Engineering or its equivalent. Meeting the minimum requirements does not guarantee admission, as acceptance is on a competitive and space-available basis. Students with undergraduate majors not in chemical engineering (for example, chemistry or physics) may be eligible for direct admission into the M.S. or Ph.D. graduate programs; these individuals are expected to complete a program of selected undergraduate core courses during their first year of study.

Degree Requirements

The M.S. degree in Chemical Engineering requires 24 hours of course work, plus six credits of thesis research and completion of an acceptable thesis (Plan A). This course work includes the chemical engineering graduate core, which is comprised of CME 505, CME 620, CME 630, CME 650, and a graduate-level mathematics elective. In certain exceptional cases (as determined by the faculty), a non-thesis M.S. may be undertaken (Plan B). The non-thesis option requires 30 hours of course work which includes the chemical engineering core, as well as 3 hours of CME 780 SPECIAL PROBLEMS IN CHEMICAL ENGINEERING. The non-thesis option is only available to those students with prior research or industrial experience. For both Plan A and Plan B, at least half of all graduate course work must be at the 600 level or above.

Master of Science in Civil Engineering

Civil Engineering, MSCIE

The Department of Civil Engineering has many well-equipped laboratories with active research programs in most areas. The research programs provide financial assistance for graduate students. In addition, financial assistance is available through teaching assistantships, fellowships, and scholarships. Information about the graduate program in Civil Engineering can be obtained by writing the Director of Graduate Studies, Department of Civil Engineering

Admission Requirements

In addition to satisfying general Graduate School and College of Engineering admissions requirements (a GPA of 2.8/4.0 on all undergraduate work is normally required), applicants for admission to the M.S.C.E., and Ph.D. degree programs in Civil Engineering must have been awarded a Bachelor of Science degree from an engineering program accredited by the Accrediting Board for Engineering and Technology (ABET). This requirement may be waived for applicants who have been awarded bachelor's degrees other than in engineering or from unaccredited engineering programs (including those offered by foreign institutions) if the applicant has received an acceptable score on the Graduate Record Examination (GRE).

Students with undergraduate majors not in engineering must also take a certain number of undergraduate remedial courses. Neither the M.S.C.E. degree nor the Ph.D. degree in Civil Engineering will be conferred unless the candidates have successfully completed, during their undergraduate and/or graduate careers, at least one basic course in at least four of the following seven areas: civil engineering materials, construction engineering and management, environmental engineering, geotechnical engineering, hydraulics and water resources engineering, structural engineering, and transportation engineering.

Another admission requirement is a minimum combined verbal and quantitative scores of GRE as follows: 1000 (300: New GRE), and 1100 (330: New GRE) for Master's and Ph.D. degree applicants, respectively. Scores on the analytical portion are not considered. Foreign applicants whose native language is other than English must take the Test of English as a Foreign Language (TOEFL) and score at least 550 (Computer Based TOEFL: 213, iBT TOEFL: 80).

Degree Requirements

For the Master of Science in Civil Engineering (M.S.C.E.) degree Plan A, 30 credit hours of course work, which can include zero to six credits of CE 768, and a thesis are required to fulfill degree requirements. For the Master of Science in Civil Engineering (M.S.C.E.) degree Plan B, a minimum of 30 credit hours of graduate work are required, including at least 3 credit hours of independent work. The requirement for independent work may be satisfied by either taking an approved curriculum of courses which contain integral independent study components totaling a minimum of 3 credit hours, or by completing at least three credit hours of CE 790 and/or CE 791.

Students who wish to complete the independent work requirement by choosing from an approved curriculum of courses containing integral independent study components, shall present a plan of study which satisfies this requirement, and all other Graduate School requirements, to the Director of Graduate Studies for approval before the completion of 12 credit hours of graduate course work. Preferably this should occur no later than the end of the first semester of graduate residence. The requirement for all independent work must be satisfied under the direction of one faculty member (for students choosing a CE 790 and/or CE 791), or several faculty members (for students following an approved curriculum of courses), who will assign, monitor, and evaluate the student's work as part of the specific course. Written reports will usually represent the work product to be evaluated.

All students must pass a Final Examination as specified by the rules of the Graduate School. The contents and style of the examination, and the evaluation of the student's performance, are the responsibility of a Graduate Faculty committee appointed by the Dean of the Graduate School.

There is no language requirement for the M.S.C.E. degree in Civil Engineering.

Master of Science in Communication Sciences and Disorders

Communication Sciences and Disorders, MSCSD

The Master of Science in Communication Sciences and Disorders is designed for students seeking entry-level professional preparation in speech-language pathology. Any student without an undergraduate major or equivalent in Communication Sciences and Disorders should apply as a prerequisite student to complete the prerequisite course work. The curriculum incorporates course work and intensive clinical practicum experiences designed to prepare students to meet state licensure and national certification requirements.

The Master of Science (M.S.) education program in speech-language pathology at the University of Kentucky is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association, 2200 Research Boulevard, #310, Rockville, MD 20850, 800-498-2017 or 301-296-5700.

Admission Requirements

Bachelor's degree with a minimum GPA of 3.0 out of a possible 4.0.

Degree Requirements

Core coursework (credit hours):

- CSD 621 AUGMENTATIVE AND ALTERNATIVE COMMUNICATION (2)
- CSD 647 LANGUAGE DISORDERS IN DEVELOPMENTALLY YOUNG INDIVIDUALS (3)
- CSD 648 LANGUAGE DISORDERS IN SCHOOL-AGE POPULATIONS (3)
- CSD 661 PHONOLOGICAL DEVELOPMENT AND DISORDERS (3)
- CSD 670 VOICE DISORDERS (2)
- *CSD 675 LOW INCIDENCE COM DISORDERS: SR (Subtitle required) (3)
- CSD 677 APHASIA AND RELATED DISORDERS (3)
- CSD 701 RESEARCH METHODS IN COMMUNICATION DISORDERS (3)
- CSD 710 COGNITIVE COMMUNICATION DISORDERS (2)
- *CSD 720 PROFESSIONAL ISSUES IN SPEECH LANGUAGE PATHOLOGY (3)
- CSD 744 ADULT SWALLOWING DISORDERS (3)
- CSD 745 PEDIATRIC FEEDING (2)
- CSD 746 MOTOR SPEECH DISORDERS (2)
- **Total Credit Hours - 34**

* CSD 675 and CSD 720 can be repeated three times

Coursework includes 34 didactic hours plus comprehensive examinations or an optional thesis.

Graduate students completing the thesis option also complete the following:

- CSD 748 MASTER'S THESIS RESEARCH (0)
- CSD 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE (1 - 6)

Graduate students wishing to meet American Speech-Language-Hearing Association certification requirements must also complete the following additional clinical orientation, clinical practicum, and clinical rotation experiences, plus 2 hours of graduate-level electives.

- CSD 654 CLINICAL ORIENTATION IN COMMUNICATION DISORDERS (3)
- CSD 657 CLINICAL PRACTICUM IN SPEECH-LANGUAGE PATHOLOGY (6)
- CSD 659 CLINICAL ROTATION IN SPEECH-LANGUAGE PATHOLOGY (21 - 30)
- **CSD 788 VARIABLE TOPICS IN COMMUNICATION DISORDERS: (SR) or Graduate credit elective (2)

**Graduate students are required to take two credits of CSD 788 Variable Topics as elective courses or any other related graduate level elective. Elective courses are offered on a rotating basis.

www.uky.edu/chs/communication-sciences-and-disorders

Master of Science in Community and Leadership Development

Community and Leadership Development, MSCLDE

The Master's of Science in Community and Leadership Development (CLD) at the University of Kentucky is a unique multidisciplinary program that prepares students for a broad range of careers including continuing on for a Ph.D. in several different disciplines (e.g., Agricultural Education, Agricultural Leadership and Development, Communications, Rural Sociology).

Our curriculum integrates a solid foundation in social science theory and research methods. Students are challenged to understand and then apply both theory and methods in diverse contexts as both independent and collaborative scholar/professionals.

Our graduate students are expected to be engaged professionals participating in scholarly organizations, social change initiatives, community development associations, or community media campaigns. They should demonstrate the depth and breadth of their knowledge and skills through applied service or research projects. Finally, students are expected to contribute their expertise as academic, organizational and community leaders.

Our program offers two options: the Master's of Science in CLD as well as the Master's of Science with Initial Certification (MIC) for Agricultural Education (Grade 5-12).

Either degree may be obtained on a thesis basis (Plan A) or a non-thesis basis (Plan B).

Admission Requirements

Applicants for the MS-CLD program without MIC Option

Candidates for the MS-CLD program must have a minimum undergraduate GPA of 2.75 and graduate GPA of 3.0 to be eligible for admission to the Graduate School. International students must take the TOEFL examination, with a minimum score of 550 (213 on the computer-based test) required by the Graduate School.

Applicants for the MIC Option

Candidates in the graduate initial certification program must apply for admission to the Graduate School and to the Teacher Education Program. They must have a minimum undergraduate GPA of 2.75 to be eligible for admission to the Graduate School. In addition, they must submit GRE scores with minimum scores of 150 on verbal reasoning, 143 on quantitative reasoning and 4.0 on analytic writing. If GRE scores fall below these levels, they must submit passing scores on PRAXIS Core Academic Skills for Educators (CASE) for the deficient portions. A minimum 156 score on the reading portion, a minimum 150 score on the mathematics portion, and a minimum 162 score on the writing portion are required.

Materials required for Application

- Cover Letter summarizing motivation for pursuing MS in CLD and whether the candidate is seeking department funding.
- Current Resume/CV
- Narrative statement of intent that includes a description of:

- Research interests and professional goals
- How the Master's program in CLD will support these goals, with a specific discussion of how candidate interests and experiences align with faculty expertise or program strengths
- Other insights into relevant experience or perspectives for demonstrating the candidate's interest in and qualifications for the CLD program
- Undergraduate/graduate transcripts
- 3 Recommendation letters (Only 1 can be written by a CLD faculty member)
- TOEFL/IELTS scores (International applicants only)
- GRE Score (MIC Option only)

Degree Requirements

30 credit hours required for a MS-CLD or MS-CLD MIC Option. Core requirements for both options are outlined below. Students must have the cumulative GPA of 3.0 or above in order to sit for the final examination. Incoming students are informed of the graduate-school and program-specific academic policies at the orientation held before classes begin each fall. Information is also on the CLD website.

For All MS-CLD Students - Core Requirements

Course No	Course Title	Hrs.	When to take
CLD 686	Research Design	3	Year 1 Fall
CLD 684	Statistical Analysis <u>or</u> any approved method course(s)	3	Year 1 or Year 2
CLD 630	Individual & Group Dynamics	3	Year 1 or 2 Fall
CLD 610 <u>or</u> CLD 670	Experiential Education <u>or</u> Community Engagement	3	Year 1 or Year 2
CLD 671 <u>or</u> CLD 685 <u>or</u> CLD 675 <u>or</u> CLD 660	Advanced Methods of Teaching <u>or</u> Advanced Community Development Theory & Practice <u>or</u> Theoretical Foundations of Communication and Community <u>or</u> Advanced Leadership Theory & Practice	3	Year 1 or Year 2
CLD 768 <u>or</u> CLD 758	Master's Thesis Research in CLD <u>or</u> Creative Component in CLD	3	Year 2 Spring

TOTAL		18	
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Students must complete a total of at least **12 credit hours** in one Enrichment Area, defined in consultation with their Advisory Committee. Sample of Enrichment Areas are:

- Non-formal and Formal Education
- Agricultural Education and other Agricultural areas of interest (with a social science emphasis - e.g., horticulture's role in urban gardening)
- Community Development
- Leadership Development
- Rural Studies
- Community Communications

For MIC Students MS-CLD - Core Requirements

Course No	Course Title	Hrs.	When to take
CLD 686	Research Design	3	Year 1 Fall
CLD 684	Statistical Analysis <u>or</u> any approved method course(s)	3	Year 1 or Year 2
CLD 630	Individual & Group Dynamics	3	Year 1 or 2 Fall
CLD 671	Advanced Methods of Teaching CTE	3	
EDP 600 / FAM 654	Life Span Human Development and Behavior/	3	
CLD 610	Experiential Education	3	Year 1 or 2 Fall
CLD 758	Creative Component in CLD	3	
TOTAL		21	

For MIC Students, certification and degree completion are two separate issues. Candidates must complete additional hours beyond the core. Although part of the certification coursework can be used toward a "General Specialty" in Agricultural Education, some required certification courses are strictly undergraduate level and will not count toward the M.S. degree. In particular, coursework in the 400 level with the "G" designation and 500-level and above courses can be used toward degree completion. Candidates' previous coursework in the content areas will be evaluated to determine additional work candidates may need to have adequate preparation in agricultural content knowledge.

Master of Science in Computer Engineering

Computer Engineering, MSCOE

The MS and PhD programs in Computer Engineering (CPE) are offered in the College of Engineering jointly by the departments of Computer Science and Electrical and Computer Engineering. The field of computer engineering integrates expertise from both electrical engineering and computer science, emphasizing an understanding of computer architecture, hardware/software interface, and the integration of computers into products and systems at a larger scale. It involves developing technical skills in traditional areas of electrical engineering, such as analog and digital circuit design and communications systems, as well as in areas related to computer science, such as software development and operating systems. As might be expected in such a broad field, there are a great many specialty areas as well, which change regularly to match the needs of the job market. The programs support the College of Engineering's mission "to provide education, research, and service in a scholarly environment in a way that prepares our students for successful professional careers, addresses the changing needs of our other constituents, and responds to the technological challenges facing the Commonwealth and the Nation."

Admission Requirements

- CV (Optional)
- Personal Statement
- Transcript showing a Bachelor's degree with a minimum GPA of 3.0 in an ABET or CSAB accredited undergraduate program in Computer Engineering, Computer Science, or Electrical Engineering.
- Background in discrete math, programming, data structures, circuits, digital logic, and computer architecture.
- Assistantship Application (Optional)
- Official GRE scores
- Three letters of recommendation
- Application Deadlines:
 - Fall: July 15 (domestic applicants), March 15 (international applicants)
 - Spring: November 30 (domestic applicants), August 15 (international applicants)

Degree Requirements

Plan A: 30 credits, including 6 credits of thesis research as CS 612, plus a Master's thesis

Plan B: 30 credits, plus a Master's project

Both the MS and the PhD program require students to take nine credits of core coursework, to include 3 of the following courses:

- CS 570 MODERN OPERATING SYSTEMS

- EE 685 DIGITAL COMPUTER STRUCTURE
- CS 541 COMPILER DESIGN
- EE 580 EMBEDDED SYSTEM DESIGN

Students can focus their curriculum on a variety of areas, including cybersecurity, VLSI, computer architecture, quantum computing, advanced compiler techniques, and distributed operating systems. Any course in the CS and ECE departments may be used to complete the credit-hour requirements, and courses outside these departments may also apply, subject to DGS approval. Students must maintain a 3.0 or better GPA across all CS and ECE courses, and they must have an overall GPA of 3.0 or better to complete the MS degree.

Incoming students are informed of the graduate-school and program-specific academic policies at the orientation held before classes begin each fall. A handbook is also on the CS and ECE websites.

Master of Science in Education

Education - Instructional Systems Design, MSEDU

The Instructional Systems Design (ISD) area offers an online degree program designed for individuals who wish to develop their knowledge and skills in planning and designing instruction. Persons choosing this area are frequently preparing for instructional design responsibilities in business and industry, government, education, and various training organizations. This program does not require or lead to initial teacher certification.

- Plan A: 30 credit hours, with a thesis requirement
- Plan B: 36 credit hours, without a thesis requirement

Admission Requirements

Applicants are evaluated holistically, with attention paid to prior educational achievement and professional experience. In addition to the admission requirements set by the Graduate School, departmental requirements include a statement of professional goals, an autobiographical sketch, professional writing samples, and three letters of professional reference. Interviews are frequently requested. The GRE is not required for admission to the ISD program. All materials may be submitted through The Graduate School's online application process.

Degree Requirements

- Specific programs are planned with a faculty advisor subject to the approval of the Director of Graduate Studies. All students are required to complete:
 - An 18-hour common core including nine semester hours in the Department of Curriculum and Instruction.
 - At least 6 hours must be taken outside the College of Education.
- The Plan A (thesis) option includes 6 credit hours of electives and 6 credit hours of thesis credit.
- An additional 12 credit hours of electives are required for the Plan B (non-thesis) option.
- Plan A students must successfully defend a thesis; Plan B students must successfully complete a final exam.
- Students in Instructional Systems Design may elect to complete a graduate certificate, such as the departmental certificate in Distance Education, as part of their coursework.

<https://education.uky.edu/edc/isd/ms/>

Education and Counseling Psychology - Counseling Psychology, MSEDU

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology. Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

The Master of Science in Education degree is offered by the Department for individuals who will not meet state licensure (Licensed Psychological Associate [LPA] or Licensed Professional Counselor [LPC]) requirements in counseling or school psychology immediately upon completion. Individuals who are interested in specializing in educational psychology, human development, measurement, or research in education may obtain this degree.

Admission Requirements

Applicants to the M.S. Ed. Degree program leading to certification in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the M.S. Ed. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students are selected for these programs based on their undergraduate grade point average, Graduate Record Examination scores, letters of recommendation, a personal statement describing their selection of a career in school or counseling psychology, a writing sample, and, in the case of school psychology, a personal interview. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

The educational psychology program, planned in consultation with an advisor, is flexible and tailored to individual needs. It consists of 36 hours of course work (including a 3-hour paper) or 30 hours of course work plus a 6-hour thesis. The work completed for this degree with an emphasis in either counseling or school psychology is applicable toward licensure in either counseling or school psychology, respectively, but does not fulfill state certification requirements. In these areas no realistic thesis option is available. The counseling program prerequisites include psychological testing and abnormal psychology.

Educational and Counseling Psychology, MSEDU

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology. Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

The Master of Science in Education degree is offered by the Department for individuals who will not meet state licensure (Licensed Psychological Associate [LPA] or Licensed Professional Counselor [LPC]) requirements in counseling or school psychology immediately upon completion. Individuals who are interested in specializing in educational psychology, human development, measurement, or research in education may obtain this degree.

Admission Requirements

Applicants to the M.S. Ed. Degree program leading to certification in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the M.S. Ed. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students are selected for these programs based on their undergraduate grade point average, Graduate Record Examination scores, letters of recommendation, a personal statement describing their selection of a career in school or counseling psychology, a writing sample, and, in the case of school psychology, a personal interview. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

The educational psychology program, planned in consultation with an advisor, is flexible and tailored to individual needs. It consists of 36 hours of course work (including a 3-hour paper) or 30 hours of course work plus a 6-hour thesis. The work completed for this degree with an emphasis in either counseling or school psychology is applicable toward licensure in either counseling or school psychology, respectively, but does not fulfill state certification requirements. In these areas no realistic thesis option is available. The counseling program prerequisites include psychological testing and abnormal psychology.

Educational Policy Studies, MSEDU

The M.S. in Educational Policy Studies is designed for students who are interested in examining education policy through contextual and analytical lenses. These perspectives include: historical and philosophical, cultural and comparative, or social and political. This degree also provides students with a core suite of policy analysis tools, including courses in quantitative and qualitative research methods. Students in this program will be prepared for a variety of professional and academic placements, including policy analysis, K-16 professional advancement, or further doctoral study.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A 250 word statement of purpose describing the student's intellectual and professional goals for completing the program
- Two letters of reference with at least one from a referee familiar with the students' academic work

- Resume or Curriculum Vitae

Applications are reviewed on a rolling basis; apply anytime.

Degree Requirements

- The program requires 31 hours of coursework culminating in an individualized master's exam during the final semester.
- All EPE students are required to take EPE601 Proseminar (1 credit hour) during their first semester of study in the department.
- Core Classes include EPE 602 Social Policy Issues or 661 Sociology of Education, EPE640 Philosophy of Education, and EPE555 Comparative Education or EPE665 Education and Culture
- Choice of Concentration (9 credit hours chosen in consultation with the student's advisor)
 - Historical & Philosophical (e.g., EPE 628, EPE 651, EPE 652, EPE 653)
 - Cultural & Comparative (e.g., EPE 554, EPE 555, EPE 667)
 - Social & Political (e.g., EPE 525, EPE 603, EPE 661, EPE 670, EPE 675)
- Research Methods & Statistics: (minimum 9 credit hours)
 - One Research Methods/Evaluation Course (e.g., EPE 620, EPE 663, EPE 797)
 - One Statistics Course (e.g., EPE 557, EPE 558, EPE 660)
 - One Additional Course (e.g., any of above or EPE 522, EPE 619, EPE 621, EPE 763)
- Elective Course (3 credit hours of any elective chosen in consultation with advisor)
- A student's program of study may vary from this structure if they receive approval from their major advisor.
- Students may include an EPE graduate certificate in Research Methods or Comparative & International Education as part of their MS EPS program.

Education.uky.edu/EPE

Higher Education, MSEDU

The Master of Science in Higher Education (HIED) is a degree program with recommended pathways in Higher Education Policy and Student Affairs. The program serves those contemplating careers in higher education or already working in a college or university, as well as those interested in pursuing the study of higher education at the doctoral level.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A 250 word statement of purpose describing the student's intellectual and professional goals for completing the program

- Two letters of reference with at least one from a referee familiar with the students' academic work
- Resume or Curriculum Vitae
- Deadlines for Applications are October 1st and February 1st.

Degree Requirements

- The program requires 31 hours of coursework culminating in a common written master's exam during the final semester.
- All EPE students are required to take EPE601 Proseminar (1 credit hour) during their first semester of study in the department.
- Core Classes recommended of all MS HIED students
 - EPE 612 INTRODUCTION TO HIGHER EDUCATION
 - EPE 653 HISTORY OF HIGHER EDUCATION
 - EPE 676 ORGANIZATION AND ADMINISTRATION OF HIGHER EDUCATION
- MS HIED students then design a focus following suggested pathways in Higher Education Policy or Student Affairs.
- The MS in HIED program plan also requires one 3 credit hour research course selected in consultation with their advisor.
- Internships are recommended, but not required. Internship experiences are designed by the student and their advisor to meet individual professional and/or scholarly goals.
- Electives can be chosen from EPE courses as well as courses outside of EPE and the College of Education with permission of the student's advisor.
- Students may include an EPE graduate certificate in Research Methods or Comparative & International Education as part of their MS HIED program.

<https://education.uky.edu/epe/>

Interdisciplinary Early Childhood Education, MSEDU

The IECE Master of Education program may be completed as an entirely online program, an entirely on-campus program, or as a hybrid program in which a combination of on-campus and online courses are taken. Students completing the program online will enroll in course sections designated for distance students, and students completing the program on-campus will enroll in course sections designated for on-campus students. Both on-campus and online students receive the same content and jointly attend class in technology-enhanced classrooms (i.e., online students participate in synchronous courses through Zoom technology).

The IECE Master of Education program allows students to complete the program with or without conducting a Thesis. Students choosing to conduct a Thesis will complete 30 credit hours. Students choosing not to conduct a Thesis will complete 36 credit hours and present a Capstone Project to program faculty. It is recommended that students discuss Thesis and non-Thesis options with program faculty on an individual basis to determine an appropriate option for completing the IECE Master of Education program.

Admission Requirements

- Transcripts from all higher education institutions attended
- TOEFL or IELTS Scores for all applicants whose native language is not English
- Curriculum Vitae
- Philosophy of Education and Goals Statement
- Three Letters of Recommendation

Degree Requirements

Total credit hours

- 30 credit hours (thesis option)
- 36 credit hours (nonthesis option)

Core requirements

- IEC 620 ASSESSMENT IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION
- IEC 621 ISSUES IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION
- IEC 623 ADVANCED PRACTICUM: INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION
- IEC 710 ADVANCED INSTRUCTIONAL METHODS IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION
- IEC 659 ADVANCED CHILD DEVELOPMENT

Electives

Courses should be selected in consultation with advisor from an approved menu of leadership courses.

- Administration and Program Development

- Curriculum Leadership and Technical Assistance
- Policy and Advocacy
- Higher Education and Research

<https://education.uky.edu/edsrc/iece/med>

Science, Technology, Engineering, and Mathematics Education, MSEDU

The Department of STEM Education offers programs leading to a Masters of Science in STEM Education and offers a strand option in the Education Sciences PhD program (see Education Sciences for more info). The MS in STEM Education program is a 30-hour program designed to prepare candidates for advanced roles in K-12 educational settings in the STEM content areas or for a terminal degree route in a STEM Education field. Full-time students in the STEM Education graduate programs are not required to serve in a funded assistantship, but those interested are eligible for the positions available. Part-time enrollment in the program is allowed and the program can be completed in evening hours

Admission Requirements

Admission to the MS in STEM Education program requires completion of a bachelor's degree from an accredited institution of higher education. While this degree does not have to be specific to a STEM Education field, the applicant does need to have strong content knowledge and an interest in the STEM field as evidenced by the rest of the application materials. The applicant must have adequate GRE scores, GPA of at least 2.75 at the undergraduate level and 3.0 at the graduate level, transcripts from previous institutions, a statement of career goals, and three letters of recommendation. The TOEFL is required for students in which English is not their first language. Once the application has been reviewed, applicants will be required to participate in an impromptu writing sample and interview with STEM Education faculty before a final admission decision is determined.

Degree Requirements

The department offers a variety of coursework in order to design a degree program that best meets the needs of the students in the program. Each student in the MS in STEM Education program is required to complete 12 hours of a specialization in a STEM content area (non-STEM Education courses). With the addition of 6 hours of electives, candidates in the program can acquire 18 hours of graduate coursework in a content area to meet the minimum guidelines needed to teach college-level courses in that content area. The remaining 12 hours of the program are dedicated to STEM Education coursework.

<https://education.uky.edu/stem/graduate/ms/>

Special Education, MSEDU

The 30-hour master's degree can be completed on a part-time basis over the course of five semesters (2.5 calendar years). The courses are offered in a face-to-face format for local students and in an online format for those students who are not local. Students taking the online version of the program attend courses virtually and can interact with professors and classmates in real-time. All classes take place in the evenings to allow teachers to complete their workday prior to attending class. Taking the GRE is not required for entry. Admission is accepted for both Fall and Spring semesters, however the core courses begin in Fall semesters, therefore a Spring admission may not be appropriate unless the student requires some prerequisite coursework.

The master's degree has three options for specialization. The focus area the student chooses will shape the coursework, research projects, and clinical experiences in which the student will participate. The focus areas include:

1. The Moderate and Severe Disabilities Track is available for teachers who hold certification in moderate and severe disabilities.
2. The Learning and Behavior Disorders Track (not available online) is available for teachers who hold certification in learning and behavior disorders.
3. The Assistive Technology track is open to teachers with either type of certification in special education.

Admission Requirements

To be admitted to the master of science in special education program, students need to be certified in special education or have an undergraduate degree in special education. Students must have a minimum undergraduate cumulative grade point average of 2.75.

Degree Requirements

Total credit hours

- 30 hours

Core requirements

Core requirements include the following courses:

- EDS 601 CONCEPTS AND PRINCIPLES OF APPLIED BEHAVIOR ANALYSIS (3)
- EDS 618 ASSESSMENT AND TREATMENT OF PROBLEM BEHAVIOR (3)
- EDS 630 ADVANCED METHODS FOR TEACHING STUDENTS WITH DISABILITIES (3)
- EDS 633 SINGLE CASE RESEARCH METHODOLOGY (3)
- EDS 634 LEADERSHIP IN SPECIAL EDUCATION (3)
- EDS 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE PROGRAM (1-3)

Additional coursework by Focus Area:

MSD Focus

- EDS 631 ADVANCED PROGRAMMING FOR STUDENTS WITH MODERATE AND SEVERE DISABILITIES (3)
- EDS 632 ADVANCED PRACTICUM: MODERATE AND SEVERE DISABILITIES (6)

LBD Focus

- EDP 557/EPE 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA (3)
- EDS 610 ADVANCED EDUCATIONAL ASSESSMENT FOR STUDENTS WITH MILD DISABILITIES (3)
- EDS 611 CONTEMPORARY TRENDS AND ISSUES IN THE EDUCATION OF STUDENTS WITH MILD DISABILITIES. (3)

AT Focus

- EDS 640 ASSISTIVE TEACHING (3)
- EDS 641 ASSISTIVE TECHNOLOGY ASSESSMENT (3)
- EDS 648 COORDINATING ASSISTIVE TECHNOLOGY PROGRAMS (3)

Electives

Students may choose from 2-5 credit hours of electives including:

- EDC 454G/EPE 454G CULTURE, EDUCATION AND TEACHING ABROAD (3)
- EDC 724 GUIDING AND ANALYZING EFFECTIVE TEACHING (3)
- HDI 604 INTERDISCIPLINARY LEADERSHIP SEMINAR (2)
- HDI 605 INTERDISCIPLINARY LEADERSHIP PRACTICUM (2)
- Select from EDL Teacher Leadership Courses (2)

<https://education.uky.edu/edsrc/eds/degrees-programs/masters/>

Teacher Preparation Program in Visual Impairments, MSEDU

The Department of Early Childhood, Special Education, & Counselor Education offers a Master of Science degree in the Teacher Preparation Program in Visual Impairments. The program uses a hybrid course delivery model including both face-to-face and online courses. Face-to-face courses occur on weekends and in the summer at either the Kentucky School for the Blind (KSB) in Louisville or at the University of Kentucky in Lexington.

A Teacher of the Visually Impaired (TVI) educates children in a variety of learning and instructional topics including: assessing and evaluating educational strengths and needs including functional vision and learning media assessments; determining appropriate services and instructional goals; and providing training in the use of adapted materials and devices. A TVI also provides direct instruction in the expanded core curriculum which includes compensatory academic skills, career exploration, sensory efficiency skills, social skills, assistive technology, recreation and leisure activities, self-determination skills, and independent living skills.

The University of Kentucky has the distinction of offering the only program to train teachers of the visually impaired in Kentucky.

This degree does not necessarily lead to teacher certification. Candidates should contact the program's Director of Graduate Studies (DGS) about additional teacher certification requirements. Information is also available on the program website at: <https://education.uky.edu/edsrc-programs/teacher-prep-visual-impairments/>

Admission Requirements

Applicants must have completed a bachelor's degree in any field with a minimum of 2.75 overall or 3.0 GPA in the last 30 credit hours to apply.

Applications must include the following:

- Resume/CV
- Personal Statement (1-2 pages on why you want to be a TVI)
- Official transcripts from all previous universities or colleges
- Three (3) completed reference forms or letters

Degree Requirements

33 credit hours with an overall GPA of 3.0

- BVI 580 INTRODUCTION TO VISUAL IMPAIRMENTS (3)
- BVI 582 ANATOMY AND PHYSIOLOGY OF THE EYE (3)
- BVI 583 BRAILLE CODES I (3)
- BVI 611 TEACHING METHODS FOR STUDENTS WITH VISUAL IMPAIRMENTS (3)
- BVI 614 BRAILLE CODES II (3)
- BVI 615 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH VISUAL IMPAIRMENTS (3)
- BVI 616 EXPANDED CORE CURRICULUM FOR BLIND AND VISUALLY IMPAIRED (3)
- BVI 617 VISUAL IMPAIRMENTS AND MULTIPLE DISABILITIES (3)
- BVI 618 ASSESSMENT OF STUDENTS WITH VISUAL IMPAIRMENTS (3)
- BVI 710 STUDENT TEACHING/FIELD EXPERIENCE IN VISUAL IMPAIRMENTS (6)

Successful completion of field experience(s)

- Refer to program website for specific requirements

Satisfactory demonstration of all program standards

Program website: <https://education.uky.edu/edsrc-programs/teacher-prep-visual-impairments/>

Master of Science in Electrical Engineering

Electrical Engineering, MSEE

The Department of Electrical and Computer Engineering offers advanced studies leading to either a Master of Science in Electrical Engineering or a Doctor of Philosophy in Electrical Engineering.

The Department of Electrical and Computer Engineering has active research programs in the following areas: power electronics, power systems, electromechanics, computer engineering, control systems, electromagnetics, electro-optics, micro and nano-electronics, signal processing, communication systems, and controls. Departmental laboratories are well-equipped for students' research. In addition, the Power and Energy Institute of Kentucky provides additional research opportunities.

Admission Requirements

A minimum grade point average of 3.0/4.0 on all undergraduate work is required for admission to the graduate program. A minimum GRE general test scores of 301 (combination of Verbal and Quantitative sections) and analytical writing of at least 2.5 for the M.S. degree. The corresponding minimum GRE scores for Ph.D. Degree are 310 (V+Q) and 3.0 (Writing). Meeting the minimum requirements does not guarantee admission will be granted. Acceptance is based upon a competitive evaluation and on a space availability basis. An undergraduate degree in electrical engineering is preferred. Those applicants without a B.S.E.E. degree from an ABET accredited EE program should develop competence and demonstrate ability in the fundamentals of electrical engineering. Such students, before being admitted to full graduate standing within the department, must take (or have taken an equivalent of) a set of prescribed electrical engineering remedial courses. A minimum grade of C must be made in these courses.

Degree Requirements

For the M.S.E.E. degree, both the thesis and non-thesis options are available. The thesis option requires 30 hours of acceptable graduate level work to include, if desired, no more than 6 credit hours of ECO 768, plus the satisfying of the usual requirements for the thesis. The non-thesis option, Plan B, requires 30 hours of acceptable graduate work plus an additional three hours of EE 784 (Research Project in Electrical Engineering). All students in their first semester of regular graduate work must select an academic advisor who will assist the student in formulating a graduate plan of study leading to their particular degree. This plan, which must receive the approval of the Director of Graduate Studies, must contain specific courses and a proposed thesis area or specialized project topic.

In order to assure a minimum breadth and level of understanding at the graduate level, all EE graduate students must take three of six specified courses from the major areas of electrical engineering. These courses are:

- EE 611 DETERMINISTIC SYSTEMS

- EE 621 ELECTROMAGNETIC FIELDS
- EE 640 STOCHASTIC SYSTEMS
- EE 641 ADVANCED POWER SYSTEMS
- EE 661 SOLID-STATE ELECTRONICS
- EE 685 DIGITAL COMPUTER STRUCTURE

Master of Science in Family Sciences

Family Sciences, MSFS

The family sciences master's (M.S.) program uses an integrative approach to learning about improving individual, family, and community well-being. The program prepares students for immediate employment in their chosen area, and also provides an excellent foundation for subsequent matriculation into a doctoral program.

Five emphasis areas are available in the family sciences master's program: (a) adolescent development, (b) aging, (c) couple and family therapy, (d) family finance and economics, and (e) family processes. The couple and family therapy (CFT) emphasis area is accredited by the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE).

Admission Requirements

Students must have a bachelor's degree prior to admission into the master's program. Admissions are conducted one time each year; the application deadline is January 15 for admission Fall Semester of the same calendar year. Applicants must submit a statement of their academic goals for the M.S. degree and three letters of recommendation. See <https://fam.ca.uky.edu/content/applications-and-admissions> for details.

Degree Requirements

Credit Requirements:

- Total credit hours required for non-CFT emphasis areas: 30
- Total credit hours required for CFT emphasis area: 53

Course requirements for all emphasis areas:

- FAM 601 FAMILY PROCESSES (3 credit hours)
- FAM 652 READINGS IN FAMILY THEORY AND RESEARCH (3)

- FAM 654 THE LIFE COURSE PERSPECTIVE ON FAMILIES AND INDIVIDUALS (3)
- FAM 668 ALLOCATION OF FAMILY RESOURCES (3)
- FAM 690 RESEARCH METHODS IN FAMILY SCIENCE (3)
- FAM 775 SEMINAR IN HUMAN DEVELOPMENT AND FAMILY RELATIONS (1)
- Thesis or Scholarly Project (6)

Additional requirements for CFT emphasis area:

- FAM 640 USING THE DSM IN CFT ASSESSMENT (3)
- FAM 745 FAMILIES AND CHILDREN IN PLAY THERAPY (3)
- FAM 685 PROFESSIONAL ISSUES IN COUPLE AND FAMILY INTERVENTION (3)
- FAM 686 THEORY AND METHODS IN COUPLE AND FAMILY THERAPY (3)
- FAM 740 COUPLE AND SEX THERAPY (3)
- FAM 787 SUPERVISED PRACTICE OF COUPLE/FAMILY THERAPY (10)

Electives:

- All students will work with their advisory committee to select a data analysis course (e.g., qualitative or quantitative). Students in the adolescent development, aging, family finance and economics, and family processes emphasis areas will work their advisory committee to select at least 5 credit hours in their emphasis area.
- Other than the data analysis course, students in the CFT emphasis follow a proscribed course of study.

Program Websites

- For an overview of the MS program in Family Sciences please visit: <https://fam.ca.uky.edu/content/masters-program>
- Example two-year plans can be found on the following website: <https://fam.ca.uky.edu/content/curriculum-0>

Master of Science in Finance

Finance, MSFI

The University of Kentucky's Master of Science in Finance (MSF) degree prepares students for a professional career in the finance and banking industries. The program is CFA Institute affiliated and prepares students for CFA exams. The MSF is also a STEM program, hence international students are eligible for 3 years of OPT after graduation. Students gain first-hand investment experience by managing

millions of dollars of real money. The program is designed to provide rigorous and focused training in finance, broaden opportunities in your career, and sharpen skills for the fast-changing and competitive world of modern finance. Job candidates with MSF degrees are highly desired in finance-specialized industries, particularly investment banking and asset management companies such as mutual funds, hedge funds, and pension funds. They are also sought after by corporate treasury departments. The job opportunities in these industries are substantial, intellectually stimulating, and high-paying.

Admission Requirements

A bachelor's degree in any field with an overall GPA of 2.75 or above. GMAT (or GRE) is required, but can be waived based on 1) above 3.5 GPA; or 2) work experience in business/finance ; or 3) professional certifications include CPA, CFA, FRM, professional trainings/courses and/or credentials.

Degree Requirements

- Thirty credit hours
- Minimum GPA of 3.0
- Ten courses from the following fourteen courses (each is three credit hours):
 - FIN 600 CORPORATE FINANCIAL POLICY
 - FIN 623 INTERNATIONAL FINANCIAL MANAGEMENT
 - FIN 630 FINANCIAL MODELING AND ANALYSIS
 - ACC 621 UNDERSTANDING FINANCIAL STATEMENTS
 - ECO 491G APPLIED ECONOMETRICS
 - FIN 645 CORPORATE INVESTMENT AND FINANCING POLICY
 - FIN 650 INVESTMENTS
 - FIN 652 OPTIONS, FUTURES, AND DERIVATIVES
 - FIN 685 INVESTMENTS PRACTICUM
 - FIN 686 INVESTMENTS PRACTICUM II
 - FIN 688 FINANCIAL ANALYTICS TOOLS
 - FIN 691 ADVANCED TOPICS IN FINANCE (SUBTITLE REQUIRED)
 - MBA 647 NEW VENTURE FINANCE
 - MA 427G FINANCIAL MATHEMATICS

Master of Science in Forest and Natural Resource Sciences

Forest and Natural Resource Sciences, MSFNRS

The MS in Forest and Natural Resource Sciences (FNRS) is offered by the Department of Forestry and Natural Resources. A goal of the Forest and Natural Resource Sciences Graduate Program is to contribute to improved forest health and management through enhanced understanding of relevant ecological and social benefits and constraints. Consequently, a student's degree program may be directed toward any of

the disciplinary or interdisciplinary fields in Forest and Natural Resource Sciences, which range from molecular to landscape and societal levels. The Program's current research has particular strengths in southern Appalachian hardwood forest ecology and management, forest hydrology and watershed management, reforestation and mine reclamation, invasive species and forest health, animal ecology and management, and human dimensions including forest policy and economics.

Students may elect to pursue the Master of Science in Forest and Natural Resource Sciences degree under Plan A, which requires a minimum of 30 semester hours of graduate course work plus an acceptable thesis, or under a non-thesis option (Plan B), which requires a minimum of 30 semester hours of graduate course work that includes an area of specialization.

Admission Requirements

Applicants for admission to the Master of Science in Forest and Natural Resource Sciences degree program must hold (by the time of enrollment in the program) an awarded four-year baccalaureate degree from an accredited institution of higher learning. Although it is not required that an applicant's undergraduate degree be in forestry or another natural resource field, a student admitted to the program who lacks essential undergraduate courses may be required by an advisory committee to take them. Applicants are expected to have an overall undergraduate grade point average of 3.00 and a minimum combined verbal and quantitative score on the Graduate Record Examination (GRE) of 297.

More detailed information concerning the Forest and Natural Resource Sciences Graduate Program's admission procedures, assistantships, and degree requirements may be obtained at <http://forestry.ca.uky.edu/forestry-graduate-program>. Specific area(s) of interest of our individual faculty members can be found at: <http://forestry.ca.uky.edu/faculty>.

Degree Requirements

Total credit hours: 30 (Plan A), 30 (Plan B)

Core requirements include: All Forest and Natural Resource Sciences graduate students take: 1) FOR 601 RESEARCH METHODS IN FORESTRY, 3 credits; 2) FOR 602 RENEWABLE NATURAL RESOURCES IN A GLOBAL PERSPECTIVE, 3 credits and 3) FOR 770 FORESTRY SEMINAR (SUBTITLE REQUIRED) three times, 3 credits total.

Student focus their remaining coursework requirements by taking 500, 600 or 700 levels courses through various departments at UK. For more details: See <http://forestry.ca.uky.edu/plan-A-thesis-option-masters>

Program Website: <http://forestry.ca.uky.edu/forestry-graduate-program>

Master of Science in Library Science

Library Science, MSLS

The MSLS program has continuing accreditation from the American Library Association and is the only ALA-accredited Library Science program in Kentucky. Offered fully online, the program prepares students to work as information professionals in a variety of settings like medical, public, academic, and school libraries.

Academic concentrations within the MSLS program include academic libraries, health information, information technology and systems, public libraries, school libraries, youth services and literature, and a generalist option.

Admission Requirements

The MSLS program invites applicants to apply for the fall, spring, and summer semesters.

Admission to the program requires:

- a bachelor's degree from an accredited institution
- a grade point average of 3.0 or higher (4.0 scale) on any prior undergraduate or graduate work
- submission of a personal statement and current resumé/CV
- three letters of recommendation from academic and/or professional references

Degree Requirements

To earn the MSLS, students must complete a total of 36 credit hours, successfully pass the exit requirement, and have a GPA of 3.0 or higher.

Within the 36 hours, students must complete 4 required core courses (12 hours), 1 technology course (3 hours), and 7 elective courses (21 hours). The required core courses are as follows:

- LIS 600 INFORMATION IN SOCIETY
- LIS 601 INFORMATION SEARCH
- LIS 602 KNOWLEDGE ORGANIZATION
- LIS 603 MANAGEMENT IN INFORMATION ORGANIZATIONS

Elective offerings span across the concentration areas. With prior permission of the Director of Graduate Studies, students may also elect to complete up to 6 hours of coursework outside of Library Science to count toward their degree.

Student in the school libraries concentration may have more restricted election options as they fulfill the requirement for school library media certification and change of rank.

Master of Science in Manufacturing Systems Engineering

Manufacturing Systems Engineering, MSMSYE

Admission Requirements

To be considered for admission to the Manufacturing Systems Engineering MS program, students are required to have:

- A GPA of at least 2.8 out of 4.0 scale (exceptions may be made by the admissions committee if persuasive evidence of applicant's potential is presented) with:
 - A BS degree in engineering or equivalent, or
 - A BS in a physical science or a related area will also be considered but may require additional preparatory coursework.
- GRE scores are NOT required for admission to the Manufacturing Systems Engineering MS program. However, applicants must note that GRE scores must be submitted if they are interested in being considered for any graduate fellowships.
- TOEFL or IELTS scores for all international students (except those with a degree from an accredited U.S. institution). Currently, for admission:
 - The minimum acceptable total TOEFL-iTB score is 79. This is considered equivalent to our currently acceptable minimum scores of 550 on the paper-based and 213 on the computer-based tests.
 - The minimum acceptable IELTS overall band score is 6.5.

Degree Requirements

MSMSYE Plan A: Thesis Option

- Credit Requirements:
 - The thesis plan requires thirty (30) credit hours of coursework and a thesis.
- Course Requirements:
 - Four core courses (MFS 505, MFS 605, MFS 606, MFS 613) must be completed. The remaining six courses can be selected from the list of other MFS courses as well as non-MFS prefix courses. Students can take up to six credit hours of MS residency (MFS 768) to satisfy the credit requirements.
 - At least two thirds of the courses must be from the MFS program (MFS prefix).
 - At least 15 credit hours must be earned from courses at the 600-level or above.
 - A maximum of 6 credit hours of MFS 780 may be included.

MSMSYE Plan B: Non-Thesis Option

- Credit Requirements:
 - The non-thesis option is reserved for students who have significant experience in a manufacturing environment, where completion of a thesis would be less beneficial than the additional course work involved in Plan B. The non-thesis option requires thirty hours (30) of course work.
- Course Requirements:
 - Four core courses (MFS 505, MFS 605, MFS 606, MFS 613) must be completed. The remaining courses can be selected from the list of other MFS courses as well as non-MFS prefix courses.
 - At least two thirds of the courses must be from the MFS program (MFS prefix).
 - At least 15 credit hours must be earned from courses at the 600-level or above.
 - A maximum of 6 credit hours of MFS 780 may be included.

Master of Science in Materials Science and Engineering

Materials Science and Engineering, MSMSCE

The Department of Chemical and Materials Engineering offers programs leading to the M.S. and Ph.D. degrees in Materials Science and Engineering, with research specialization in the following areas:

- Ceramics
- Electronic Materials
- Metals and Alloys
- Micro-Materials
- Nanomaterials
- Polymers and Composites
- Surfaces and Interfaces
- Thin Film

Admission Requirements

Admission to the M.S. degree program is on a competitive basis, and financial assistance is available through teaching and research assistantships, as well as a limited number of fellowships. Applicants should have a minimum grade point average of 3.0/4.0 on all undergraduate work. Persons with backgrounds in any physical science or engineering discipline are encouraged to apply, as each applicant's qualifications are reviewed individually. Minimum requirements for admission include a bachelor's degree and four semesters of university-level calculus, calculus-based physics, and chemistry. Please note that meeting the minimum requirements does not guarantee admission, as acceptance is on a competitive and space-available basis.

Degree Requirements

The master's degree is offered under Plan A (thesis option) and Plan B (non-thesis option). Candidates for the degree under Plan A must complete a minimum of 30 hours of graduate courses to include, if desired, no more than 6 credit hours of MSE 768 and submit and defend a thesis that demonstrates research ability. The required course work includes the materials science core (MSE 632 MSE 635 MSE 650 MSE 781) as well as appropriate electives selected in consultation with the Director of Graduate Studies. In certain exceptional cases (as determined by the faculty), a non-thesis M.S. may be undertaken (Plan B). The non-thesis option requires 30 hours of course work that includes the materials science core, and is only available to those students with prior research or industrial experience. For both Plan A and Plan B, at least half of all graduate course work must be at the 600 level or above.

Master of Science in Mechanical Engineering

Mechanical Engineering, MSMEE

Admission Requirements

Applicants seeking admission to the graduate program in the Department of Mechanical Engineering (ME) as regular students must have an awarded baccalaureate degree. Admission to the ME graduate programs normally requires a Bachelor's degree in engineering (not necessarily in Mechanical Engineering) and a grade point average (GPA) of 3.0/4.0 or 70% on all graduate and undergraduate work, as well as Graduate Record Examination (GRE) scores of at least 300 (new scoring system) for the combined Quantitative and Verbal sections (with at least 160 on the quantitative section) and 3.5 for the Analytical section. An undergraduate degree in Mathematics, Chemistry or Physics combined with a strong interest in engineering topics may be suitable preparation when certain required undergraduate courses are taken (contact program for further details). Exceptions to these requirements may be made by the Director of Graduate Studies if other persuasive evidence of the student's potential for success is available.

Degree Requirements

MSMEE Option A (Thesis Plan)

Credit Requirements:

- MSMEE Option A requires a minimum of 30 semester hours of coursework and a thesis.
- Course Requirements:
- 30 credit hours required for a MS degree, where 6 credit hours of MS residency (ME 768) is suggested. Research courses (including ME 790) do not count toward the required credit hours.
- At least 6 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list, where at least 3 credit hours are from courses with prefixes MA or STA. See Appendix F of the ME Graduate Handbook for further information.
- A maximum of 6 credit hours of ME 780 (Independent Study), and a maximum of 6 credit hours of ME 768 may be included.
- Students are required to register for ME 799 MECHANICAL ENGINEERING GRADUATE SEMINAR 2 times during their degree.

MSMEE Option B (Non-Thesis Plan)

Credit Requirements:

- MSME Option B requires a minimum of 30 semester hours of coursework.
- Course Requirements:
 - 30 credit hours required for a MS degree. MS residency (ME 768) and research courses (including ME 790) do not count toward the required credit hours.
 - At least 6 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list, where at least 3 credit hours are from courses with prefixes MA or STA. See Appendix F of the ME Graduate Handbook for further information.
 - A maximum of 6 credit hours of ME 780 (Independent Study) may be included.
 - Students are required to register for ME 799 MECHANICAL ENGINEERING GRADUATE SEMINAR 2 times during their degree.

Master of Science in Nursing

Nursing, MSN

The MSN in Healthcare Systems Leadership program is based on the MSN Essentials and builds on the student's current knowledge and expertise. Graduates that complete this program will have a fuller understanding of the discipline of nursing in order to engage in higher level practice and leadership in a variety of settings and to commit to lifelong learning. Students will take a series of courses that prepare them to function as change agents in multi-dimensional roles in the organization and community. The curriculum emphasizes leadership effectiveness in micro and meso organizational/systems/settings, evidence-based management, quality/safety, information management expertise, and strategies to make organizational effectiveness strategies. MSN courses are offered on-line. Graduates will be prepared to:

1. Lead change to improve quality outcomes,
2. Advance a culture of excellence through lifelong learning,
3. Build and lead collaborative inter-professional care teams,
4. Navigate and integrate care services across the healthcare system,
5. Design innovative nursing practices, and
6. Translate evidence into practice (AACN, 2011, The Essentials of Master's Education in Nursing)

The Master of Science in Nursing in Healthcare Systems Leadership program builds on a student's undergraduate nursing degree and prepares the individual for advanced practice nursing in a chosen specialty. Research utilization, evidence-based practice, and leadership are emphasized throughout the program.

The University of Kentucky prepares nurse practitioners in the post BSN Doctor of Nursing Practice (DNP) program, and not in the MSN program. The DNP is a professional clinical doctorate program. Information can be found at UK DNP Program information.

Admission Requirements

Applicants to the master's degree program must meet the minimum requirements of the Graduate School, as well as the following requirements of the nursing program: Minimum undergraduate grade point average of 3.0 on a 4.0 grading scale; Baccalaureate degree in nursing from a school accredited by a nationally recognized organization and goal statement, scholarly writing sample, three references, resume/CV and interview. Unencumbered RN licensure required in/for the state where clinicals take place. The RN license cannot have any restrictions on licensure which would preclude meeting the requirements of the degree program and required clinical rotations. Final admission recommendations are made on a competitive basis. See details at MSN Healthcare Leadership Admission

The MSN application opens Sept. 15 and closes February 15th for Fall (August) enrollment. Feb 15th is the preferred deadline. Applications received after this deadline will be considered in a space available basis. The MSN program does not admit a spring or summer class.

Degree Requirements

- Total credit hours: 38
- MSN Capstone Project required. There is no thesis option.
- Program requires 29 didactic credit hours and 9 clinical credit hours (540 practicum hours). Required courses and clinical practicum work are listed below.

Course	Course Title	Credits
EPE 557	Gathering, Analyzing and Using Educational Data	3
NUR 624	Concepts, Theories, and Models for Advanced Practice Nursing	3
NUR 614	Economic and Financial Aspects of Clinical and Population-Based Health Care Delivery Systems	3
NUR 602	Research Methods In Advanced Practice Nursing	3
NUR 730	Leading Change: Seminar	3
NUR 731	Leading Change: Practicum	3

NUR 610	Nursing Leadership in Health Care	3
NUR 619	Quality and Safety in Nursing and Healthcare	3
NUR 615	Evaluating Evidence for Research and Evidence-Based Practice	3
NUR 736	Relationship Based Leadership in Healthy Work Environments (Seminar)	3
NUR 737	Relationship Based Leadership in Healthy Work Environments (Practicum)	3
NUR 660	MSN Capstone Practicum	3
NUR 617	Technology for Transforming Nursing and Healthcare	2

- See sample full and part time plans of study at MSN Healthcare Systems leadership plans of study
- Information on all graduate nursing programs is located at UK Graduate Nursing Programs

Master of Science in Nutrition and Food Systems

Nutrition and Food Systems, MSNFS

Graduate education leading to a Master of Science in Nutrition and Food Systems. There are two concentration areas, the Traditional MS and the Accelerated Coordinated Program in Dietetics. Only University of Kentucky students admitted to the Accelerated Coordinated Program in Year 3 of the undergraduate degree program (Option B in BS in Dietetics) can enter this concentration area.

The Traditional MS includes a 17-hour graduate-level core emphasizing contemporary nutrition topics, such as research methods and health behavior theories, community programming and intervention development, food systems, chronic disease diagnosis and processes related to lifestyle behaviors, statistics, and a nutrition and food systems seminar. The Accelerated Coordinated Program in Dietetics includes an 18-hour graduate-level core that emphasizes a variety of nutrition topics, such as evidence-based practices, research methods and health behavior theories, community programming and intervention development, food systems, chronic disease diagnosis and process related to lifestyle behaviors.

Admission Requirements

Admission to the MS in Nutrition and Food Systems program is selective and competitive. Students must have a relevant undergraduate degree from an accredited institution; a minimum GPA of 3.0 with conditional admittance considered; a phone or in-person interview with the Director of Graduate Studies or Department Chair; submission of a written essay, a technical scientific writing sample (student topic choice), and three letters of recommendation.

Admission to the Accelerated Coordinated Program in Dietetics is selective and competitive; students are expected to maintain a rigorous schedule in order to complete all required courses for the undergraduate and graduate degrees as well as the hours for the supervised practice within 10 semesters and three summer sessions. The Accelerated Coordinated Program Concentration Area of the MS in Nutrition and Food Systems will only be available to students who were admitted to the Accelerated Coordinated Program (Option B of BS in Dietetics) during Year 3 in the University of Kentucky BS in Dietetics program. Students must have a cumulative GPA of 3.0 to apply. The application will include a personal statement, three letters of recommendation, and an interview. As such, this program is only available to University of Kentucky students. Students from other colleges and universities can apply for, and be admitted into, the UK MS in Nutrition and Food Systems, but only for the "Traditional MS Concentration Area."

Degree Requirements

The Master of Science program prepares students for careers in community, education, government, industry, non-profit, health care or private practice settings. A student in the Traditional MS concentration may choose the Plan A - Thesis or Plan B - Project.

Plan A - Thesis requires the 17-hour core, 7 hours of electives to explore areas of personal interest, 6 additional hours of research credit and a written thesis and oral defense.

Plan B - Project requires the 17-hour core, 13 hours of electives, 6 additional hours of special problems, and a project presentation and exam.

A student in the Accelerated Coordinated Program in Dietetics concentration area can only complete Plan B - Project. For these students, the Project requires the 18-hour core, 18 hours of electives, and 16 hours of supervised practice coursework.

Traditional MS Plan A and B Core Courses

- DHN 600 RESEARCH METHODS IN NUTRITION AND FOOD SYSTEMS (3)
- DHN 603 ADVANCED COMMUNITY PROGRAM DEVELOPMENT (3)
- DHN 605 FOOD SYSTEMS AND SOCIETY (3)
- DHN 608 CHRONIC DISEASE MANAGEMENT AND PROCESS (3)
- DHN 774 SEMINAR IN NUTRITION AND FOOD SYSTEMS (3)
- STA 671 REGRESSION AND CORRELATION (2)
- DHN 768 RESIDENCE CREDIT FOR THE MASTERS DEGREE (Plan A only) (6)
- DHN 782 SPECIAL PROBLEMS (Plan B only) (6)

A 500-level statistics course is a pre-requisite to the graduate program and may be taken during the existing graduate program.

Accelerated Coordinated Program Courses

Core Courses

- DHN 581 APPLIED EVIDENCE-BASED PRACTICE IN DIETETICS (3)
- DHN 597 OBESITY AND FOOD INSECURITY PARADIGM: FROM CELL TO SOCIETY (3)
- DHN 598 GLOBAL FOODS, DIET AND CULTURE (3)
- DHN 605 FOOD SYSTEMS AND SOCIETY (3)
- DHN 608 CHRONIC DISEASE MANAGEMENT AND PROCESS (3)
- DHN 680 ADVANCED EVIDENCE-BASED PRACTICE IN DIETETICS (3)

Supervised Practice Courses

- DHN 720 DIETETICS SUPERVISED PRACTICE: MEDICAL NUTRITION THERAPY I (4)
- DHN 722 DIETETICS SUPERVISED PRACTICE: FOOD SERVICE SYSTEMS MANAGEMENT I (4)
- DHN 724 DIETETICS SUPERVISED PRACTICE: FOOD SERVICE SYSTEMS MANAGEMENT II (2)
- DHN 726 DIETETICS SUPERVISED PRACTICE: MEDICAL NUTRITION THERAPY II (2)
- DHN 728 DIETETICS SUPERVISED PRACTICE: COMMUNITY NUTRITION I (2)
- DHN 730 DIETETICS SUPERVISED PRACTICE: COMMUNITY NUTRITION II (2)

Elective Courses for MS NFS Concentration Areas

- DHN 607 FOOD RELATED BEHAVIORS (3)
- DHN 690 ADVANCED WORK IN DIETETICS (3)
- DHN 620 NUTRITION AND AGING (3)
- DHN 630 ADVANCED COMMUNITY NUTRITION (3)
- DHN 640 HUMAN NUTRITION: ASSESSMENT (3)
- DHN 690 ADVANCED WORK IN DIETETICS (3)
- DHN 784 SPECIAL PROBLEMS IN FINANCIAL MANAGEMENT (3)

Students may also choose appropriate electives outside the department with the permission from the instructor.

Master of Science in Nutritional Sciences

Nutritional Sciences, MSNS

The impact of nutrition on health and disease has produced major clinical and public policy challenges that are shaping research and career opportunities for highly trained nutritional scientists in academia, industry and government. Disease prevention efforts, increased health consciousness and an aging population are further fueling the demand for nutritional scientists. The interdisciplinary Division of Nutritional Sciences enables students in Masters of Science program to explore the interrelationship between environmental factors and nutrients and their effect on biochemistry, physiology and disease development. More than 50 faculty members provide teaching and individualized research guidance across over 20 departments and divisions in the University's Colleges of Medicine, Health Sciences and Agriculture, as well as the Colleges of Pharmacy, Nursing, and Education. A primary area of research and training targets nutrition and chronic diseases, with a focus on obesity and associated disorders of cardiovascular disease, diabetes and cancer.

Other specialty areas include nutrition and oxidative stress, nutrition and aging, clinical nutrition, animal nutrition and food science.

Students in the MS in Nutritional Sciences program choose from one of the four emphasis areas: clinical nutrition, molecular and biochemical nutrition, community nutrition, and wellness/sports nutrition.

Admission Requirements

1. Transcript showing a baccalaureate degree from a fully accredited institution of higher learning.
2. A minimum undergraduate grade point average of 2.9 on undergraduate coursework and a 3.0 on all graduate work.
3. For international applicants, a minimum score of 550 on the paper-based Test of English as a Foreign Language (TOEFL), which has a maximum score of 667; score of 213 on the computer-based TOEFL (maximum 300), or 79 on the internet-based TOEFL. The minimum International English Language Testing Service (IELTS) score is a 6.5. All applicants must demonstrate proficiency in verbal and written English.
4. Admission for the M.S. in Nutritional Sciences with Clinical Nutrition Emphasis is limited to those with a B.S. in Dietetics, having an RD, or being RD eligible.
5. Course Prerequisites: you would need to have taken an undergraduate physiology course (PGY 206 at UK) and it is highly recommended that you have taken 1 year of general chemistry (CHE 105 and 107 at UK) and 1 semester of organic chemistry (CHE 236 at UK). Biochemistry is also a prerequisite course but it can be taken your first semester for graduate credit (BCH 401G). It has prerequisites of CHE 107 and CHE 236.

Degree Requirements

Program Websites: <https://pharmns.med.uky.edu/pharmns-masters-program> and <https://pharmns.med.uky.edu/pharmns-nutritional-sciences>

The MS in Nutritional Sciences degree program is available in two options:

- **Plan A:** 30 credits, includes 6 credit hours of thesis research (NS 768)
- **Plan B:** 30 credits, non-thesis option

Core Courses for MS (12-15 credits)

- NS 601/CNU 601 INTEGRATED NUTRITIONAL SCIENCES I (3)
- NS 602/ASC 602/CNU 602 INTEGRATED NUTRITIONAL SCIENCES II (3)
- NS 603/CNU 603/FSC 603 INTEGRATED NUTRITIONAL SCIENCES III (2)
- NS 704/CNU 704/DHN 704 CURRENT TOPICS IN NUTRITIONAL SCIENCES (1)
- STA 570 BASIC STATISTICAL ANALYSIS (4) **or** IBS 611 PRACTICAL STATISTICS (2)
- NS 771 GRADUATE SEMINAR IN NUTRITIONAL SCIENCES (taken twice) (0)
- NS 771 GRADUATE SEMINAR IN NUTRITIONAL SCIENCES (taken once) (1**)
- NS 768 RESIDENCE CREDIT FOR THE MASTERS DEGREE (6**)

- NS 782/CNU 782/DHN 782 SPECIAL PROBLEMS (1-6*)
- NS 609/CNU 609 (1)

*Plan B Only

**Plan A Only

Courses for Emphasis in Clinical Nutrition

Prerequisite- B.S. in Dietetics and/or meeting ADA Dietetics requirements for internship

- CNU 501 NUTRACEUTICALS AND FUNCTIONAL FOODS IN HEALTH AND DISEASE PREVENTION (2) **or** CNU 502 OBESITY C2C: CELL TO COMMUNITY (SUBTITLE REQUIRED) (2)
- NS 702/CNU 702 CLINICAL/WELLNESS PROBLEM-BASED CASE STUDIES (1-3)
- CNU 611 ADVANCED MEDICAL NUTRITION THERAPY (2)
- CNU 612 ASSESSMENT SKILLS FOR THE CLINICAL NUTRITIONIST (2)

Emphasis Credits = 7-9

Electives to equal a minimum of 30 credit hours

Courses for Emphasis in Wellness and Sports Nutrition

- NS 605/CNU 605 ADVANCED SPORTS NUTRITION (3)
- KHP 600 EXERCISE STRESS TESTING AND PRESCRIPTION (3)
- KHP 620 ADVANCED EXERCISE PHYSIOLOGY (3)
- CNU 501 NUTRACEUTICALS AND FUNCTIONAL FOODS IN HEALTH AND DISEASE PREVENTION (2)

Emphasis credits = 11

Electives to equal a minimum of 30 credit hours

Courses for Emphasis in Community Nutrition

- CPH 605 EPIDEMIOLOGY (3)
- DHN 603 ADVANCED COMMUNITY PROGRAM DEVELOPMENT (3)
- DHN 607 FOOD RELATED BEHAVIORS (3)

Emphasis credits= 9

Electives to equal a minimum of 30 credit hours

Courses for Emphasis in Molecular and Biochemical Nutrition

- IBS 601/BCH 607 BIOMOLECULES AND METABOLISM (3)
- BCH 608 BIOMOLECULES AND MOLECULAR BIOLOGY (3) **or** IBS 602 MOLECULAR BIOLOGY AND GENETICS (3)
- NS 606/CNU 606 MOLECULAR BIOLOGY APPLICATIONS IN NUTRITION (2)

Emphasis Credits= 8

Electives to equal a minimum of 30 credit hours

Students can focus their curriculum in one of the four emphasis areas outlined above by selecting elective courses that meet their professional needs and personal interests. A full list of approved electives with course descriptions is available in the handbook on the program website.

Master of Science in Physician Assistant Studies

Physician Assistant Studies, MSPAS

The University of Kentucky, Division of Physician Assistant Studies (PAS) offers a Plan B, non-thesis, physician assistant master's degree program that is accredited by the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA). The Master of Science in Physician Assistant Studies (M.S.P.A.S.) program is designed for students who wish to become PAs and hold a baccalaureate or will have earned a baccalaureate degree by the time they enter the program. The M.S.P.A.S. program is offered at two distinct locations in either Lexington or Morehead, KY.

The mission of the University of Kentucky Physician Assistant Studies program is to improve the health and well-being of the people in the Commonwealth of Kentucky by graduating competent and compassionate physician assistants who will become transformative leaders in their practices and communities. Accordingly, we seek applicants who have a strong interest in practicing medicine in Kentucky, especially its most underserved areas. We employ a holistic approach to choose those students who will best fulfill our mission. Graduates of the program are eligible to take the Physician Assistant National Certifying Examination. After successful completion of the NCCPA Exam, graduates are eligible for state certification/licensure to practice as certified physician assistants.

Admission Requirements

The admissions cycle to the M.S.P.A.S. program is a competitive application and interview process occurring annually (April - July), with each cohort matriculating in January. Applicants select one campus (Lexington or Morehead) and apply simultaneously to the Centralized Application Service for Physician Assistants (CASPA) and the UK Graduate School application. Students must satisfy admissions requirements for both the Graduate School and the Physician Assistant Studies Program. For more detailed information on the program admissions requirements, please visit the program website.

Bachelor's Degree

All applicants must meet the minimum academic standards for the Graduate School. Completion of a bachelor's degree from a regionally accredited college or university is required prior to entry into the program. (The UKPAS program does not require a specific degree and the program does not favor one degree over another.) Additionally, applicants may have only two outstanding prerequisite requirements at the time of application submission to be completed by August.

*Prerequisite Courses**

A "C" grade or better must be earned in the following prerequisite courses and only one retake per course requirement:

- General Chemistry 1 with laboratory 1 semester
- General Chemistry 2 with laboratory 1 semester

- Organic Chemistry with laboratory 1 semester
- General Biology with laboratory 1 semester
- Microbiology with laboratory 1 semester
- Human Anatomy 1 semester
- Human Physiology 1 semester
- Statistics 1 semester
- Psychology 1 semester
- Developmental Psychology 1 semester
- Sociology or Anthropology 1 semester
- Medical Terminology 1 semester

Graduate Record Exam (GRE)

All GRE scores must come from exams taken within the last 5 years. A minimum score is not set by the program or UK's Graduate School. The UKPAS Program accepts ONLY the GRE for our program. We do not accept any substitutes (e.g. the MCAT, PA-CAT).

TOEFL Requirements (if applicable)

International applicants or domestic students who attended a high school in which English was not the primary language are required to submit TOEFL iBT scores in addition to the GRE. A minimum score of 26 in each category must be obtained: Reading, Listening, Speaking, & Writing.

Patient Care Experience

The UKPAS Program requires patient contact, however a minimum amount of hours is not set. Contact hours may be completed utilizing the following (but not limited to) medical disciplines: CNA, EMT, CMA, Medical Tech., phlebotomist, etc.

Additional Recommendations

Shadowing, leadership, and volunteer experience are strongly recommended to be a competitive applicant.

Letters of Recommendation

Three (3) letters of recommendation are required from people acquainted with the applicant for at least one year and familiar with his/her professional goals. They must be submitted with the CASPA application. Letters should come from the following sources:

- Letter 1 - PA or Physician
- Letter 2 - Academic Professor, Advisor, or Committee
- Letter 3 - Medical (i.e. PA, physician, nurse manager, etc.) or Academic

Admissions Essay

The admission essays are completed through the CASPA application. Essays must be of graduate quality and reflect the applicant's commitment and understanding to the profession, program mission, campus selection, and diversity, equity, and inclusion.

Basic Life Support Certification

Applicants must be certified in Basic Life Support for Health Providers through the American Heart Association by matriculation in January. Red Cross certifications will not be accepted.

Technical & Behavioral Standards, Background Checks, & Drug Screening

All students matriculating into the UKPA Program are required to meet certain technical and behavioral standards of the program and College of Health Sciences. Additionally, applicants must pass a background check and drug screenings.

Due to the competitive nature and large number of students applying to the program, not all applicants who meet minimum requirements will be invited for an interview.

For more information and dates of General Information Sessions please visit our website.

If you have questions after visiting our website and attending an information session you may contact:

Julia Berry

UKPA Educational Didactic & Admissions Coordinator

julia.berry@uky.edu

Degree Requirements

MSPAS Program Curriculum Requirements

All students enrolled in the program will take the following courses in a lock-step format. Courses are on a 4.0 grading scale. D grades are not awarded to graduate students.

Spring

ANA 611	Regional Human Anatomy	5
PAS 620	Health Care Delivery in the 21st Century	3
PAS 651	Introduction to the PA Profession	2
PGY 412G	Principles of Human Physiology	4

Summer 4-Week Intersession

PAS 610	Research Methods & Epidemiology in PA Studies	3
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Summer 8-Week Intersession

PAS 653	Introduction to Health & Disease	3
PAS 678	Health Promotion & Disease Prevention	2

Fall

PAS 645	Master's Project	1
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PAS 650	Clinical Methods	4
PAS 654	Clinical Lecture Series I	4
PAS 655	Psychosocial Factors in Primary Health Care	3
PAS 672	Pharmacology I	3

Spring

PAS 646	Master's Project 2	2
PAS 656	Patient Evaluation & Management	4
PAS 657	Clinical Laboratory Procedures	3
PAS 658	Clinical Lecture Series II	4
PAS 673	Pharmacology II	3

Summer 4-Week Intersession

CNU 503	Nutrition for Health Professions	1
PAS 640	Survey of Geriatric Medicine	3

Summer 8-Week Intersession

Students begin Clinical Year Program Clerkship Requirements; rotations are not set in any particular order

Clerkships are 4-week long rotations

PAS 660	Family Medicine Clerkship (Two 4-week rotations)	6
PAS 661	Pediatric Clerkship	3
PAS 662	Obstetrics & Gynecology Clerkship	3
PAS 663	Surgery Clerkship	3
PAS 665	Clinical Practicum in Physician Assistant Studies (i.e. Electives; Three 4-week rotations)	9
PAS 669	Internal Medicine Clerkship (Two 4-week rotations)	6
PAS 670	Emergency Medicine Clerkship	3
PAS 671	Psychiatry Clerkship	3
PAS 680	Seminar in PA Studies	2

Please note that any course offered in the PA program curriculum must be taken while in the program. The program does not offer advanced placement or course audits. Courses will not be allowed to transfer into the program (e.g. PGY 412G, ANA 611, etc.)

After completing the course work and clerkship requirements with a minimum 3.0 GPA, students who receive passing scores on the final graduate (Summative) examination will be awarded a Master of Science in Physician Assistant Studies (M.S.P.A.S.) degree. Graduates of the program are eligible to take the Physician Assistant National Certifying Examination. After successful completion of the exam, they are also eligible for state certification/licensure to practice as certified physician assistants.

Master of Science in Retailing and Tourism Management

Retailing and Tourism Management, MSRAT

The graduate program in the Department of Retailing and Tourism Management is philosophically committed to the well-being of individuals in their immediate environment. The program is designed to meet individual student interests and career objectives.

The graduate program leads to a Master of Science Retailing and Tourism Management with a formal option in HMT (Hospitality Management & Tourism) or MAT (Merchandising, Apparel and Textiles). The program is individualized to meet each student's career interests using a combination of course work, independent study, and research experience. Coursework in RTM is selected to either the HMT (Hospitality Management & Tourism) or MAT (Merchandising, Apparel and Textiles) focus.

Admission Requirements

- Undergraduate degree: applicant should have an awarded four year Bachelor's degree in hospitality, tourism management, merchandising, textiles, retailing, marketing, management, or a related degree
- Official transcripts - overall 2.75 GPA in all undergraduate coursework; 3.0 GPA in any graduate work
- Current resume
- Personal Statement: This should be a brief statement as to why the individual wishes to pursue a graduate degree in RTM
- TOEFL Score: Minimum 79 (for non-native English speakers)
- Three letters of recommendation

Degree Requirements

RTM Plan A (Thesis Plan)

- Credit Requirements:
 - RTM Plan A requires 30 semester hours of coursework including a thesis
- Course Requirements:
 - 12 semester hours of the following CORE COURSES
 - RTM 600 RESEARCH METHODOLOGY IN HUMAN ENVIRONMENTAL SCIENCES (3)
 - RTM 650 SURVEY OF CURRENT THEORIES AND LITERATURE (3)
 - STA 570 BASIC STATISTICAL ANALYSIS (3)
 - RTM 772 SEMINAR IN RETAILING AND TOURISM MANAGEMENT (3)
 - 12 semester hours of SUPPORT SELECTION from courses at the 500, 600 or 700 level with prefixes HMT, MAT, or other those approved by DGS
 - 6 semester hours of RTM 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE
 - 12 semester hours of course work at 600-700 level
 - 18 semester hours of regular courses (structured course and not independent study)

RTM Plan B (Non-Thesis Plan)

- Credit Requirements:
 - RTM Plan B requires 30 semester hours of coursework including an industry experience
- Course Requirements:
 - 12 semester hours of the following CORE COURSES
 - RTM 600 RESEARCH METHODOLOGY IN HUMAN ENVIRONMENTAL SCIENCES (3)
 - RTM 650 SURVEY OF CURRENT THEORIES AND LITERATURE (3)
 - STA 570 BASIC STATISTICAL ANALYSIS (3)
 - RTM 772 SEMINAR IN RETAILING AND TOURISM MANAGEMENT (3)
 - 12 semester hours of SUPPORT SELECTION from courses at the 500, 600 or 700 level with prefixes HMT, MAT, or other those approved by DGS
 - 6 semester hours of RTM 690 INDUSTRY EXPERIENCE IN RETAILING AND TOURISM MANAGEMENT
 - 15 semester hours of course work at 600-700 level
 - 18 semester hours of regular courses (structured course and not independent study)

Program Website

<http://rtm.ca.uky.edu/content/graduate-programs>

Master of Science in Radiological Medical Physics

Radiation Science, MSRMP

The Radiation Sciences Division in the College of Medicine offers a MS degree in Radiological Medical Physics. The program is accredited by The Commission on Accreditation of Medical Physics Education Programs (CAMPEP). The program covers all aspects of Medical Physics including Radiation Therapy Physics, Diagnostic Medical Imaging, and Nuclear Medicine Physics. However, an emphasis is placed on

Radiation Therapy Physics through the Radiation Therapy Physics Practicum. This Practicum covers core components of clinical Therapy Medical Physics including Equipment Quality Assurance, Brachytherapy, Patient Specific Quality Assurance, and External Beam Treatment Planning. Student access to the Radiation Therapy clinic in the Radiation Medicine Department in the UK College of Medicine is extensive and is an important learning experience. Additional information is available on our website at <https://radiationmedicine.med.uky.edu/radiation-sciences-graduate-program>.

Admission Requirements

A BS in Physics is desirable, but at a minimum candidates must show the equivalence of a minor in physics in all undergraduate work, as defined by the American Board of Radiology and CAMPEP. To meet the Minor in Physics requirement, candidates must have completed the following: 1) Calculus through Ordinary Differential Equations; 2) The Calculus based introductory General Physics sequence with labs (2 semesters); and 3) Three upper division Physics electives (junior level or above). Courses in Human Anatomy, Human Physiology, Computer Science, and Scientific Statistics are preferred but, if missing, may be incorporated into the graduate program at the discretion of the Director of Graduate Studies. An undergraduate GPA of 3.25 is highly desirable. The General GRE exam is required. While there are no absolute minimum scores required, a score on the Verbal section at or above the 60th percentile and a score on the Quantitative section at or above the 70th percentile is desirable.

An interview is required of all applicants being considered for admission. Fluent spoken English skills are required and are assessed during the interview. In addition, observation or job shadowing of a certified clinical Medical Physicist is very important when considering applicants for admission. Three Letters of Recommendation and a personal statement are also required. The deadline for applications is April 30th, however, offers for admission are usually made early in the preceding Spring semester with completion of the class roster by May. Therefore, it is recommended that applications be completed by January 31 to assure full consideration.

Degree Requirements

The Master of Science in Radiological Medical Physics is an interdisciplinary, Plan B (non-thesis) program. However, a two credit hour clinical quality improvement research project is required. A minimum of 30 credit hours are required for graduation. Students must maintain a minimum 3.0 GPA for retention in the program and for graduation requirements. A coursework outline is as follows; credit hours shown in parentheses:

Required Courses (27 credit hours)

RAS 472G/RM 472G INTERACTION OF RADIATION WITH MATTER (3)

RAS 545/RM 545/PHY 545 RADIATION HAZARDS AND PROTECTION (3)

RAS 546/ RM 546/PHY 546 GENERAL MEDICAL RADIOLOGICAL PHYSICS (3)

RAS 601/RM 601 ADVANCED RADIATION DOSIMETRY (2)

RAS 647/RM 647 PHYSICS OF DIAGNOSTIC IMAGING I (3)

RAS 648/RM 648 PHYSICS OF DIAGNOSTIC IMAGING II (3)

RAS 649/RM 649 PHYSICS OF RADIATION THERAPY (3)

RAS 651 ADVANCED LABORATORY IN DIAGNOSTIC IMAGING PHYSICS (2)

RAS 695/RM 695 RESEARCH IN HEALTH-RELATED RADIATION SCIENCES (2)

RAS 710 RADIATION SCIENCE SEMINAR (SUBTITLE REQUIRED) (1)

RM 740/BIO 740 MAMMALIAN RADIATION BIOLOGY (2)

Elective Courses (3 credit hours) Partial Listing

RM 660 GRADUATE PRACTICUM IN RADIATION MEDICINE (1-6)

RAS 650/RM 650 PHYSICS OF RADIATION THERAPY II: BRACHYTHERAPY PHYSICS (2)

RM 842 RADIATION ONCOLOGY (1)

RM 848 PRACTICUM IN BRACHYTHERAPY PHYSICS (1-3)

RM 849 PRACTICUM IN EXTERNAL BEAM THERAPY PHYSICS (1-6)

EE 630 DIGITAL SIGNAL PROCESSING (3)

EE 635 IMAGE PROCESSING (3)

Master of Social Work

Social Work, MSW

An MSW degree prepares students to facilitate change in working with people, families and communities. The MSW program is open to all undergraduate degrees and may be completed full time or part time, in either a hybrid or online format, and is accredited by the Council on Social Work Education (CSWE). The MSW is an Advanced Generalist program and prepares students for social work practice across the micro-macro continuum with diverse populations. In addition, students may complete certificates in multiple areas (including clinical practice, child welfare, substance misuse, military behavioral health, school social work) or students may complete coursework specific to an individualized plan of study to be meet their area of interest. Finally, the college offers two cognate areas that provide student funding, integrated behavioral health (IBH) with social workers in primary care settings and substance use disorder (SUD) that provide funding for students to serve in practicums with SUD prevention and intervention agencies in underserved populations.

Students may attend hybrid classes on UK's main campus in Lexington or asynchronously online. The Army MSW program is offered at Fort Sam Houston in San Antonio, Texas and is a selective admission process through the Department of Defense.

Degree Requirements

UK College of Social Work offers full-time and part-time plans of study to earn a Master of Social Weork (MSW).

Our regular standing MSW is a 60-credit program that consists of:

- Fifty one credits of classwork-including 12 hours of electives
- Nine credits of fieldwork experience.

Our advanced standing MSW is a 30-credit program that consists of:

- Twenty four credits of classwork-including 9 hours of electives for 30 credit program
- Six credits of fieldwork experience.

Plans of study for each of the programs can be found: <https://socialwork.uky.edu/academics/msw/about-msw/>.

MSW Advanced Generalist 60 Hour -- Foundational Courses

- SW 600 SOCIAL WORK PRACTICE WITH INDIVIDUALS AND FAMILIES
- SW 602 THEORY-INFORMED SOCIAL WORK PRACTICE WITH GROUPS
- SW 620 UNDERSTANDING THEORY IN SOCIAL WORK PRACTICE
- SW 621 UNDERSTANDING POVERTY, INEQUALITY, AND INJUSTICE: FOUNDATIONS OF PRACTICE
- SW 625 INTRODUCTION TO SOCIAL WORK: PROFESSIONAL BEHAVIOR AND ETHICS
- SW 630 INTRODUCTION TO SOCIAL WELFARE POLICY AND SERVICES
- SW 636 SOCIAL WORK PRACTICE WITHIN ORGANIZATIONS AND COMMUNITIES I
- SW 640 FOUNDATION PRACTICUM
- SW 650 RESEARCH METHODS IN SOCIAL WORK

MSW Advanced Generalist 30/60 Hour Core Courses

- SW 722 PSYCHOPATHOLOGY FOR SOCIAL WORK PRACTICE
- SW 724 ADVANCED PRACTICE WITH INDIVIDUALS AND FAMILIES: ASSESSMENT AND TREATMENT PLANNING
- SW 731 ADVANCED SOCIAL WELFARE POLICY AND ANALYSIS
- SW 733 SOCIAL WORK PRACTICE WITHIN ORGANIZATIONS AND COMMUNITIES II: INTERVENTION AND EVALUATION
- SW 740 ADVANCED SOCIAL WORK PRACTICUM I
- SW 741 ADVANCED SOCIAL WORK PRACTICUM II
- SW 750 APPLIED RESEARCH METHODS IN SOCIAL WORK

General information on electives:

At the University of Kentucky, we have certificates in Clinical Social Work, Substance Misuse, Child Welfare, School Social Work, Military Behavioral Health, etc. which allow students to add an additional academic credential through the electives in the MSW program. If there is not a certificate that appeals, students can certainly create an individualized academic experience through a combination of electives.

- SW 505 CHILD WELFARE SERVICES
- SW 515 MEDICAL AND PSYCHOSOCIAL ASPECTS OF DISABILITIES: PHYSICAL DISABILITY
- SW 516 MEDICAL AND PSYCHOSOCIAL ASPECTS OF DISABILITIES: PSYCHIATRIC DISABILITIES
- SW 518 INTERNATIONAL SOCIAL WORK
- SW 519 UNDERSTANDING INTIMATE PARTNER VIOLENCE
- SW 520 UNDERSTANDING THE DIVERSE NEEDS OF CHILDREN AND ADOLESCENTS
- SW 523 SOCIAL PERSPECTIVES ON RACISM AND ETHNIC PREJUDICES IN AMERICA
- SW 524 SUBSTANCE MISUSE
- SW 530 RESPONDING TO MILITARY AND VETERAN POPULATIONS
- SW 550 CHILD SEXUAL ABUSE: ASSESSMENT AND INTERVENTION
- SW 571 SOCIAL WORK AND THE LAW
- SW 580 TOPICAL SEMINAR IN SOCIAL WORK
- SW 616 SOCIAL WORK PRACTICE IN SCHOOL SETTINGS
- SW 626 FORENSIC MENTAL HEALTH: EVALUATION AND TREATMENT
- SW 702 SUBSTANCE MISUSE, VIOLENCE AND RISK MANAGEMENT
- SW 726 PSYCHOPATHOLOGY FOR CLINICAL SOCIAL WORK
- SW 728 COMPARATIVE TREATMENT MODALITIES
- SW 730 EVIDENCE-BASED PRACTICE FOR SOCIAL WORKERS
- SW 737 NON-PROFIT MANAGEMENT IN HUMAN SERVICE ORGANIZATIONS
- SW 738 GUIDED INDEPENDENT WORK: MILITARY AND VETERAN POPULATIONS

Specialist in Education

Education - Special Education, EDS

Specialist Degree (Ed.S.) programs are individually planned for an in-depth study in an area of special education. In addition to coursework, the program requires a research project with a written product for completion. On occasion, students seeking a doctorate degree elect to first earn a specialist degree in order to gain research experiences prior to conducting a dissertation. Other individuals use the specialist degree program to meet Rank I teacher certification requirements.

Additional individual objectives may be appropriate for this degree. Individuals interested in this program should contact the department's Director of Graduate Studies for Special Education.

Admission Requirements

Program applicants must meet the following prerequisites:

1. Completion of a master's degree,
2. A 3.4 GPA or higher on all graduate work,

3. Meet the requirements for a teaching certificate or have credentials appropriate to the field of specialization, and
4. Have completed at least 30 semester hours in courses in education (graduate and undergraduate).

Degree Requirements

The student must earn a minimum of 30 credit hours of graduate work beyond the master's degree, of which at least 15 must be in courses numbered 600 or above.

A departmental committee is responsible for helping students plan individual programs. The program should contribute to specialization in a field.

The student must complete an independent research project (equal to 3 but not to exceed 6 credit hours) and submit a written report, a copy of which is to be filed with the department directing the research.

With the approval of the Director of Graduate Studies and the Dean of the Graduate School, the student may transfer a maximum of 9 credit hours earned beyond the master's degree from an accredited institution that is approved to offer work above the master's level.

The final examination required of all candidates is administered by an examining committee consisting of at least three qualified members recommended by the adviser and the Director of Graduate Studies and appointed by the Dean of the Graduate School.

<https://education.uky.edu/edsrc/eds/specialist/>

Educational Leadership, EDS

- The Specialist in Education (EdS) is a flexible, online degree program designed for educators to advance their careers in leadership of learning systems. The degree consists of 30 credit hours of leadership courses amongst 3 tracks. The courses throughout the program are available online and available to educators both in Kentucky and throughout the world. Kentucky students in the EdS program may achieve either Rank II or Rank I designations through the Education Professional Standards Board.
- Completion of the Teacher Leadership track leads to a letter of eligibility for the Teacher Leader Endorsement from the Education Professional Standards Board.
- Completion of the Principal track leads to a letter of eligibility for the Advanced Educational Leadership Certification from the Educational Professional Standards Board.
- A general educational leadership track (non-licensure) is also available for students outside Kentucky and those choosing a non-licensure option.

Admission Requirements

- Earned Masters, preferably education-based, from a fully accredited institution with a 3.0 GPA on a 4.0 scale.
- Transcripts from previous post-secondary institutions
- Professional Resume
- Personal Statement
- Writing Sample
- (If pursuing licensure) A copy of a valid K-12 teaching certificate
- (If pursuing licensure) Minimum required years of teaching experience
- (If Principal track) 2 Recommendations, including one from a district-level administrator

Degree Requirements

- 30 Credits, 10 courses, typically earned over 5 semesters including summer.
- Teacher Leader track: 15 credits, 5 Course, Core + 15 credit, 5 course electives.
- Principal track: 24 credits, 8 course, Core + 6 credit electives.
- Portfolio-based capstone final defense

Master of Science in Mining Engineering

Mining Engineering, MSMIE

The programs leading to the degrees of Master of Science in Mining Engineering, Master of Mining Engineering and Doctor of Philosophy are offered through the Department of Mining Engineering. The objectives of these programs are to provide an advanced level of applied science for use in the mining industry and to offer specified topics for research specialization.

The Master of Science in Mining Engineering is a research-oriented degree appropriate for a career in problem solving, research, or technology development.

For the Master of Science in Mining Engineering, 24 credit hours of course work plus an acceptable thesis (Plan A) or 30 credits of course work and a report on one or more research topics (Plan B) are required to fulfill program requirements. Plan B Master of Science degrees will be reserved normally for students who have already demonstrated their ability to conduct and report on independent research.

The Doctor of Philosophy is the terminal degree in the subject and is normally required for a career in teaching and research

Admission Requirements

Enrollment in the Master of Science degree program is open to qualified applicants with an undergraduate degree in mining engineering or other engineering and science fields. A minimum cumulative grade point average of 2.8/4.0 from an accredited undergraduate program is required. Persons with undergraduate degrees in fields other than mining engineering are required to satisfy deficiencies in undergraduate mining engineering courses.

Applicants for admission must have a combined score on the verbal and quantitative portions of the Graduate Record Examination (GRE) in excess of 300. Scores on the analytical portion are also considered. Foreign applicants whose native language is other than English must take the Test of English as a Foreign Language (TOEFL) and achieve a score of at least 80 (internet based test) or 230 (computer based test) or (550 paper based test) is required before they can be admitted. Alternatively candidates should take the International English Language Testing System (IELTS) test and achieve a score of at least 6.5.

In addition to satisfying general Graduate School and College of Engineering admissions requirements, applicants for admission to the Master of Science and Ph.D. degree programs in Mining Engineering must have been awarded the Bachelor of Science degree prior to admission to the graduate degree status. Normally, it is expected that applicants will have graduated from an engineering program accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). For applicants from non-U.S. universities, from related but non-engineering disciplines, and from institutions that do not have accredited engineering programs, an assessment will be made of the comparability of educational background to that prescribed and appropriate remedial course work established as a provision for admission.

Degree Requirements

Master's plan A

A minimum of 24 semester hours of coursework plus 6 semester hours of residency credit (MNG 768), plus a thesis are required. In no case will independent work, taken as MNG 780 or MNG 790 and used for part of the thesis, be counted as part of the 24 hours of coursework. The thesis must be actively supervised by a member of the graduate faculty.

Master's plan B

A minimum of 30 credit hours of coursework plus one or two written reports are required. The report(s) should represent the total equivalent of approximately six (6) semester hours of work; no credit for this effort may be included in the minimum 30-hour requirement. The report(s) must be written with a level of content and style which may be reasonably expected of a graduate student.

Please check the degree requirements in the following link. Follow the link to each program.

<http://www.engr.uky.edu/research-faculty/departments/mining-engineering/students/graduate-programs>

Programs by Program Type

Graduate Certificate

Advanced Materials Characterization Certificate

In the four course Advanced Materials Characterization Certificate (AMCC) students will explore techniques for characterizing and analyzing the atomic-through-mesoscale structure of materials and their surfaces. Students will learn the fundamental principles and limitations of a range of techniques, to prepare samples, and to operate state-of-the-art equipment. The program provides direct, hands-on experiences to both on-campus and distance learning participants by leveraging internet-based remote operation of characterization equipment in the UK Electron Microscopy Center.

Anatomical Sciences Certificate

The graduate certificate in Anatomical Sciences will provide a coherent integrated approach to helping graduate students, postdoctoral scholars, residents and others develop and document the skills needed in order to effectively teach the anatomical sciences. This 12 credit-hour certificate, including a required 3 credit-hour supervised practicum experience, provides basic competency in graduate-level anatomical sciences instruction and provides participants with documentation of their abilities. The certificate is accessible to participants from a wide range of disciplines and backgrounds and will provide practical, hands-on anatomy course work and instructional mentoring. The certificate will produce graduates who are highly competitive in the job market, as the numbers of individuals able to provide graduate-level instruction in the anatomical sciences is well above crisis level.

Applied Behavior Analysis Certificate

This 21-credit hour graduate certificate is designed to meet the coursework requirements for students that wish to pursue the Board Certification in Behavior Analysis (BCBA) . To obtain a BCBA, there are 4 criteria that must be met including a master's degree, coursework covering the necessary 315 content hours, 2000 field experience hours, and passing the national board exam. This certificate will meet the coursework requirement of the certification.

Applied Environmental and Sustainability Studies Certificate

The online Graduate Certificate in Applied Environmental and Sustainability Studies prepares graduates for positions in the corporate, government, and non-governmental worlds as a sustainability manager, corporate sustainability specialist, or one of many other fast growing environmental and sustainability professions. Students take a total of 12 credit-hours of graduate coursework. This consists of 9 credit-hours in Environmental and Sustainability Studies and a methods/skills elective. The curriculum is available here.

Applied Nutrition and Culinary Medicine Certificate

The Graduate Certificate in Applied Nutrition and Culinary Medicine is an online, 12-credit program. This unique graduate certificate is a collaborative effort across the Colleges of Medicine, Health Sciences, and Agriculture, Food and Environment, leveraging faculty expertise from biomedical, clinical and applied sciences. Core coursework explores nutritional approaches to various disease states and practical culinary strategies to bridge dietary recommendations with application. Elective courses allow students to tailor their graduate certificate to the needs of their practice or discipline, while also presenting the latest research

concerning drug and nutrient interactions, approaches to community program development, and the physiologic basis for (or against) various dietary supplements. This graduate certificate aims to provide a better understanding and appreciation for the importance of nutrition education for health professionals (physicians, nurses, physician assistants, physical therapists and medical professionals in postgraduate training, etc.) in multiple disciplines, and to recognize the importance of engaging registered dietitians to enhance health outcomes in patients. Post baccalaureate students interested in graduate nutrition education that meet the prerequisite requirements will also be considered for admission.

Applied Statistics Certificate

Statistical data analysis is ubiquitous in all areas of science, engineering, medicine, agriculture and education. Research and professional success in these disciplines often depends on using the latest advances in applied statistics. Multidisciplinary research projects involving a substantial component of applied statistics are becoming a frequent venue of expanding the borders of knowledge. This certificate will train graduate and professional degree students in the use of applied statistics in their own field. The students will be able to use this enrichment to become more productive professionals, to further research in their own areas and to engage in multidisciplinary research relying on applied statistical techniques.

Assistive and Rehabilitation Technology Certificate

The graduate certificate in assistive and rehabilitation technology is a collaborative effort between the Department of Early Childhood, Special Education, and Rehabilitation Counseling and the Department of Rehabilitation Sciences in the College of Allied Health and the Human Development Institute. Students may choose an emphasis from either special education or rehabilitation counseling. Both emphases will require three foundation courses, one related elective and one practicum course for a total of 15 graduate hours. The content of the certificate is broad. Major areas include Assistive Technology Devices, Assistive Technology Assessment and Coordination of Assistive Technology Services.

Autism Spectrum Disorders Certificate

The College of Education offers a graduate certificate in Autism Spectrum Disorders (ASD). The certificate is a collaborative effort between the department of special education and rehabilitation counseling, and the department of educational, school, and counseling psychology in the College of Education and the Department of Communication Sciences and Disorders in the College of Health Sciences. The primary purpose of this 15-credit hour certificate is to provide special education teachers and related personnel from across the state with advanced credentials that will allow them to implement evidence-based and research-based strategies. The certificate will accomplish the following:

- efficiently and effectively equip professionals to meet federal and state demands for quality
- provide professionals with the knowledge and skills to identify, use, and recommend researchbased practices for students who have ASD, including students from culturally and linguistically diverse backgrounds
- provide personnel with knowledge and skills to work collaboratively with district and schoollevel teams.

The specialized five course ASD graduate certificate program will include competencies in the following areas:

- implementing evidence-based and research-based instruction

- using data from formal and informal assessments to guide instruction, and
- serving as specialists in district and school-wide programs to support students with autism in improving areas of communication, socialization, behavior, and access to the general education curriculum

Baroque Trumpet Certificate

The certificate in Baroque Trumpet will complement existing programs in music education, music performance, and musicology. This new certificate program is needed because, currently, there is no Baroque trumpet component of any of these programs. Students in these programs study modern instruments. Their applied study (MUP 512, 612, 712, etc.) is on modern instruments, they are assessed (in the form of a jury) on their modern instruments, and all instruction is on modern instruments. The Baroque trumpet is an entirely different (and arguably much more difficult) instrument. The Baroque trumpet is an 8-foot long instrument with no valves.

Biostatistics Certificate

The graduate certificate in Biostatistics (GCB) is a 15-credit hour graduate certificate that allows students studying in programs outside the department of biostatistics to learn a basic background in the design and analysis of biomedical studies. The courses included in this certificate will provide students with an introduction to methodological applications in public health and medical research; skills that will be necessary for completing quantitative components of research projects and attractive to future employers.

Child Welfare Practice Certificate

The Child Welfare Practice graduate certificate is a specialization that prepares students for advanced practice with children and families who experience abuse and neglect. Both public and private child welfare settings will be examined with special emphasis on improving outcomes for these children and families. The certificate course work focuses on the complex factors that contribute to maltreatment and neglect, and emphasizes intervention strategies including evidence-based practices and process models. This is a post-baccalaureate certificate, so students do not need to be enrolled in a graduate program to apply.

Clinical and Translational Science Certificate

The graduate certificate in Clinical and Translation Science will serve as the entry point for graduatelevel training in clinical and translation science. The curriculum is designed to establish knowledgebased and skill-based competencies in communication, professionalism, critical thinking and synthesis of knowledge, planning, management and assessment and leadership in five areas; CTS methods and technologies, scientific knowledge, measurement and statistics, research integrity and collaboration and team building. The certificate will be available to:

- faculty members at the University of Kentucky who are planning to participate in clinical and translational research but lack previous training and the skills necessary for clinical and translational research
- professionals in postgraduate training at UK, including residents and fellows in the college of medicine, college of pharmacy and college of dentistry
- graduate students in health-related PhD and MS programs
- project managers and other staff members interested in contributing to clinical and translation science

- professionals practicing in the community

Clinical Social Work Certificate

The Clinical Social Work graduate certificate prepares students for advanced practice in clinical social work. The certificate is designed to move students from the broader foundation of generalist social work practice to an advanced level of clinical knowledge and skills including application of social work practice in a variety of clinical settings. This certificate in Clinical Social Work examines psychopathology, assessment and evidence-informed treatment strategies and will provide an educational foundation to help prepare practitioners who seek clinical social work positions.

College Teaching and Learning Certificate

The graduate certificate in College Teaching and Learning provides a coherent, integrated approach to helping graduate students, postdoctoral scholars, current faculty, and others develop and document the skills needed as part of conscientious preparation for the full range of faculty responsibilities at a range of institutions of higher education.

College, Career, and Civic Life Teaching and Learning Certificate

The graduate certificate in College, Career, and Civic Life Teaching and Learning provides a coherent, integrated approach to helping graduate students, postdoctoral scholars, current faculty, and others develop and document the skills needed as part of conscientious preparation for the full range of faculty responsibilities at a range of institutions of higher education.

Computational Fluid Dynamics Certificate

The graduate certificate in Computational Fluid Dynamics (CFD) is available, in principle, to all graduate students in engineering and the mathematical, physical and biological sciences. CFD is a generally recognized sub-discipline of fluid dynamics, complementing use of theory and experimentation in the analysis of fluid behavior from sub-micro scales to intergalactic cosmological distances. CFD is highly interdisciplinary and areas of current interest include biological flows (e.g. Air in respiratory systems and blood in circulatory systems of animals), flows in porous materials (e.g. Remediation of contaminated ground water, extraction of oil from marginal deposits) and combusting flows (e.g. For higher energy conversion efficiencies and less pollutant production). Thus, competency in the use of CFD is becoming critical to the advance of science and technology in the 21st century and it has become an essential engineering tool in industrial environments ranging from aerospace to food preparation and pharmaceuticals.

Developmental Disabilities Certificate

The graduate certificate in Developmental Disabilities prepares professionals from a broad range of disciplines to play a leadership role in providing services and supports for people with developmental disabilities and their families. An emphasis is placed on developing skills in the field of disability research. The course work emphasizes a life span and interdisciplinary perspective with an emphasis on promoting self-determination, community integration and inclusion. In addition to a broad, interdisciplinary perspective, students acquire a basic foundation in a number of specific, topical areas such as specialized health care services and financing, inclusive education, behavioral supports, employment and community living options,

advocacy, legislation, assistive technology, organizational development and theory, group facilitation, and research proposal development. All courses are taught by an interdisciplinary faculty. Students have the opportunity to participate in a practicum and work directly with individuals with developmental disabilities and their families. Students also complete a research project under faculty supervision. Three didactic courses (HDI 600, 602 and 604) and one practicum course (HDI 603) are required for the certificate. In addition to the required courses, two or three hours of elective course work is also required; either HDI 601, HDI 605 or one elective from outside HDI courses and those courses required in the student's degree program.

Digital Mapping Certificate

The New Maps Plus graduate certificate in digital mapping is designed to serve the expanding landscape of mapping. This includes new professional sites and applications where maps are made by various people (from small business owners to non-profit managers to marketers) using all kinds of (often freely available) software and websites. Admissions requires a bachelor's degree but no prior GIS or mapping experience is necessary. Holders of the graduate certificate will be able to:

- Identify the appropriate applications of different forms of geospatial data, analytical techniques and mapping software platforms.
- Gather, integrate, transform and analyze geospatial data from multiple sources.
- Create static and interactive maps and visualizations in accordance with prevailing and rigorous cartographic standards.
- Develop basic web-based programs and scripts utilizing web standards to enhance user interaction with maps.
- Identify and implement appropriate applications of design components to maximize the usability of maps.
- Construct a publicly-available online portfolio of data, code, maps and accompanying explanations on an online sharing platform such as Github.

Distance Education Certificate

In response to increasing student demand, a large number of postsecondary institutions and agencies in public health, government and private business are developing distance learning programs. However, distance education requires a unique set of skills for course program development, management, support, and delivery. To prepare current and future faculty and administrators, the University of Kentucky offers a graduate certificate in distance education through the collaborative efforts of the Department of Early Childhood, Special Education and Rehabilitation Counseling and the Department of Curriculum and Instruction within the Instructional Systems Design (EISD) program and Distance Learning Programs.

Diversity and Inclusion Certificate

The graduate certificate in Diversity and Inclusion is an online, 12 credit hour certificate designed for a wide range of professional backgrounds in recognition of our increasingly diverse world and workplaces. The certificate provides both the knowledge and tools to develop, promote, and support inclusive environments through 8-week, online courses designed by faculty. Skills and knowledge gained through the certificate are highly sought after by today's employers and would be beneficial to business administrators, health care professionals, government employees, educators, and non-profit organizations.

Engineering in Healthcare Certificate

The Engineering in Healthcare graduate certificate offers didactic education and optional hands-on research experience in the application of engineering principles to healthcare problems. This 5 course/15 credit-hour (minimum) certificate is designed for students with a Bachelor's degree in engineering, chemistry, math or physics. Completion of the program will help students to:

1. distinguish themselves academically from their competition to professional school programs
2. engage in relevant educational experiences (including research) in the "gap year" between undergraduate studies and professional school
3. provide the foundation for enduring academic success by helping improve academic preparedness for professional school curricula
4. explore Biomedical Engineering as an adjunct (or primary) healthcare career option without formally committing to the master's degree program.

Students who complete this certificate have the option to apply most of the credits earned towards the Master's degree in Biomedical Engineering.

Eurhythmics Certificate

The University of Kentucky Eurhythmics certificate, typically earned with three years of satisfactory engagement in the summer institute workshops, features courses that apply to the music teacher's work with students of all ages using an approach to music education created by Emile Jaques-Dalcroze. Additionally, successful completion of the University of Kentucky eurhythmics certificate can serve as an entry into study for the internationally-recognized Dalcroze certificate. The Dalcroze approach has three branches: eurhythmics trains the body to respond kinesthetically to rhythmic and dynamic concepts. Solfège trains the ear, eye, and voice in pitch, melody, and harmony. Improvisation enables students to respond to concepts according to their own invention, through movement, voice, and at an instrument.

Executive Educational Leadership Certificate

The Graduate Certificate in Executive Educational Leadership is designed for school system leaders. The courses (EDL 676, EDL 677, EDL 678, EDL 682) correspond to the Kentucky Superintendent Licensure program and thus are a good fit for district-level leaders. In particular, this program is useful for private school and international school system leaders such as the role of Headmaster.

Explosives and Blasting Certificate

The graduate certificate in Explosives and Blasting offers a formal education in the use of explosives for commercial applications such as mining and civil engineering. Those disciplines require the use of explosives to fracture and remove the rock, to extract valuable minerals or to emplace infrastructure. The curriculum is designed for mining and civil engineers or other engineering or related professionals that need to increase their knowledge in explosives and blasting. Significant areas include a review of basic concepts of explosives and blasting, advanced blast design, instrumentation for blasting, and the environmental aspects of blasting. The Explosives and Blasting Graduate Certificate is authorized to be delivered via online or hybrid format to students who are physically located in SARA member states and territories. Students who are residents of Kentucky have a waiver of 12 months towards the state blasting license.

Family and Consumer Sciences Certificate

The Family and Consumer Sciences graduate certificate program provides students with the knowledge and skills to positively impact the quality of individual and family life. The coursework provides students with the ability to amplify critical-thinking skills to address problems in diverse family, community, and work

environments. Program graduates will enhance capacity-building skills that empower individuals and families to thrive in an ever-changing society. The 12-hour certificate is available to graduate students, as well as to practicing professionals and may be taken as a stand-alone program or as a part of a graduate degree program. The Family and Consumer Sciences graduate certificate is designed to partially meet the elective concentration component of the MS in Science Translation and Outreach.

Fundraising and Development Certificate

The graduate certificate in Fundraising and Development is designed to provide critical fundraising education to those who are currently working or seeking employment in nonprofit organizations. Nonprofit organizations across the United States are dependent on educated and skilled fundraisers. According to the National Center for Charitable Statistics there are more than 1.5 million registered nonprofit organizations - nearly all dependent on raising contributed income through fundraising efforts. Educational institutions, health, human services, relief agencies, arts and religious organizations are all reliant on donated funds to serve their beneficiaries. Therefore, knowledgeable fundraisers are needed to direct these efforts. Competition for fundraising has resulted in a strong job market and created a greater need for skilled and educated fundraisers.

Gender and Women's Studies Certificate

The graduate certificate in Women's Studies is intended to provide students with a coherent, interdisciplinary grounding in current gender and women's studies scholarship and to create an intellectual community among faculty and graduate students who share scholarly interests in gender and women's studies. The graduate certificate in women's studies may be taken to complement a student's disciplinary program, or it may be taken independent of the pursuit of any disciplinary graduate degree. For full information on this curriculum, please see our web page: <https://gws.as.uky.edu/gws-graduate-certificate>

General Radiological Medical Physics Certificate

The field of Radiological Medical Physics is the study of the use of radiation to diagnose and treat human diseases and is a relative newcomer in medically-related scientific disciplines. The first "radiological physics" practitioners were trained in the basic sciences, typically physics. Dedicated radiological medical physics education programs are a recent phenomenon. These programs strive to combine the scientific and medical aspects of the field but they remain small and few in number. To help meet the demand for workers in radiological medical physics, it has been common over the past 40 years to accept persons with closely related scientific backgrounds into the field and provide them with on-the-job training. Even today, a large fraction of practicing radiological medical physics have degrees in fields other than radiological medical physics. Many of these are leaders in the field and their contributions have been and will remain very important. Their work experience has traditionally provided the pathway into certification for these radiological medical physicists. However, given the recent changes adopted by the medical physics education community, these potential outside candidates must document completion of a basic core curriculum in radiological medical physics in addition to a Ph.D. Degree received in a closely related discipline in order to qualify for certification by the American board of radiology (ABR) in radiological physics. The curriculum credit hours required for the graduate certificate in radiological medical physics totals 16.

Gerontology Certificate

The graduate certificate in Gerontology is an interdisciplinary curriculum offered by the Sanders-Brown Center on Aging. The certificate is a part of Sanders-Brown's complete range of research and educational activities that prepare both graduate students and practicing professionals from many disciplines to assume

key roles in improving the quality of life for older adults and furthering our understanding of the aging process. Its interdisciplinary focus makes it possible for students to tailor their course work to support their own fields of interest.

Global Health Certificate

The goal of the graduate certificate program in Global Health is to provide a general foundation in the understanding of global health issues and the complex multiplicity of factors that affect them, and to provide some basic tools in health assessment methods to measure their impact. Given the widespread globalized nature of our world today, there is an increasing need for understanding the impact of globalization on health, both in terms of health patterns common across regions, and in terms of how what were once considered focal, limited local issues can transcend national and continental borders. The program is designed to prepare students for the increasing demand for international, interdisciplinary skills in the areas of public health prevention, health care and other health-related disciplines. The global health certificate will include a minimum of 15 credit hours - 12 of classroom coursework and 3 based on a required international internship course. The program is housed in the college of public health, but it is intended to be multidisciplinary and open to a variety of graduate students in any of the health sciences or other disciplines across campus. It is also available to professionals or other college graduates interested in obtaining this additional training.

Health Coaching Certificate

Health Coaching has been defined as, "...the practice of health education and health promotion within a coaching context, to enhance the wellbeing of individuals and to facilitate the achievement of their health-related goals" (Palmer et al., 2003). Health coaches help clients identify their goals, develop an action plan, and help put the plan into action while giving support and helping to motivate clients toward success. The Department of Kinesiology & Health Promotion at the University of Kentucky proposes a new 15-credit graduate certificate in health coaching designed to meet the supplemental education needs of current health promotion professionals and those training to become health promotion professionals. The graduate certificate would be open to any students who are already are or will be enrolled in a degree program, or those who simply apply for postbaccalaureate (non-degree) status in order to complete the certificate, are eligible to apply for admission.

Health Communication Certificate

The graduate program in Communication offers a certificate in Health Communication that is available to (a) students in the Ph.D. And M.A. programs in communication, (b) students in other doctoral programs at the university and (c) post baccalaureate students. The certificate program is aimed primarily at individuals interested in developing specialized knowledge and research expertise in health communication that could be applied within both academic and nonacademic settings. Students are expected to have a background in social or behavioral science prior to entering the program. To earn the certificate, students must complete CJT 671 and 771 and either CJT 780 (section focusing on a health communication topic) or a graduate course in medical informatics, for a total of 12 credit hours.

High Performance Coaching Certificate

The University of Kentucky Department of Kinesiology and Health Promotion offers a Graduate Certificate in Health Coaching. Health Coaching has been defined as, "...the practice of health education and health promotion within a coaching context, to enhance the wellbeing of individuals and to facilitate the achievement of their health-related goals." The aim of the Graduate Certificate curriculum is to provide a

foundation in current behavior change theories/models, motivational interviewing, as well as understanding of current health issues. Students may complete the certificate as a complement to a graduate disciplinary degree program or as a stand-alone curriculum. Students who are currently enrolled as a graduate student in a department at the University of Kentucky are encouraged to apply for the Health Coaching Graduate Certificate program early in their graduate studies. Students who are enrolled in the M.S. in Health Promotion program are eligible to count up to 9 credit hours from their program, requiring them to take six additional credit hours (on top of their M.S. curriculum) to complete the graduate certificate.

Historic Preservation Certificate

The graduate certificate in Historic Preservation is now available to both graduate students and practicing professionals. Certificate students have a choice of three areas of concentration: preservation and design; preservation and economic development; and preservation and planning. The certificate requires 12 credit hours, and is a great way to gain an advantage in an increasingly competitive job market. The certificate consists of two core courses, and two courses from the area of concentration. The graduate certificate may be earned concurrently with a master's degree in any other field, such as architecture, interiors, history, anthropology, engineering, or business. It may also be earned by professionals who already possess a bachelor's degree in another field. Previous design experience or education is not a requirement for acceptance into the certificate program. Knowledge of the values and legal framework that drives preservation decisions is useful to numerous professions in today's world. Certificate students will learn preservation principles, tools, and techniques that will allow them to apply their base knowledge within a historic context.

Human Resource Management Certificate

The Graduate Certificate in Human Resource Management (GC-HRM) provides an opportunity to obtain a set of competencies to effectively manage an organization's employees and contribute to its talent strategy. The courses within the certificate focus on talent acquisition, talent management, employment law, and the effective use of analytics to manage human capital. The program also features an experiential capstone course giving students the ability to apply principles and techniques learned in their coursework to solve real organizational problems. This 15-credit certificate is appropriate for recent graduates hoping to learn more and better prepare themselves for a career in human resources and for working professionals who recognize the need to deepen their understanding and update their skills in this increasingly complex field.

Human Technology Interaction Certificate

The certificate in Human-Technology Interaction brings together students in the social, behavioral, and health sciences with students in the design professions. It is intended specifically for:

1. those in the social, behavioral, and health sciences who would like to learn how their disciplinary knowledge can be used to enhance the safety, productivity, and satisfaction of people interacting with both "high-tech" and "low-tech" systems
2. those in the design professions who would like to apply principles derived from the study of human abilities, limitations, and preferences to the design of new or modified technology. Students from engineering, instructional systems design, architecture, graphic design, computer science, and other design fields are welcome to apply
3. those interested in exploring career options in ergonomics, human factors psychology, or usability engineering.

The certificate requires 15 hours of graduate work, including two foundation courses, two elective courses, and one practicum or research experience.

Improving Healthcare Value Certificate

The Graduate Certificate in Improving Healthcare Value is an inter-disciplinary program and will be led by a small team composed of senior faculty members from the College of Public Health, the College of Business and Economics, and the College of Engineering. This certificate is intended to create educational opportunities for UK graduate students in a range of disciplines, for UK HealthCare staff, and for other healthcare workers to enhance their knowledge and skills related to improving the value (quality and cost) of health care services provided by hospitals, health systems, and academic medical centers.

Instructional Coaching Certificate

The graduate certificate in Instructional Coaching prepares veteran educators to lead job-embedded professional development efforts in P-12 schools. The two required courses (ELS Leadership in Communities of Practice, EDL 638 Instructional Coaching and Mentoring) and an elective course (ELS 600 Leadership in Learning-Centered Schools, EDL 669 Leadership for Creative Problem Solving, or ELS 624 Leadership Practicum) provide leadership development focused on facilitating teacher teams, coaching novice and veteran teachers, solving problems creatively, and supporting adoption of innovation and renewal initiatives. This certificate is one of four offered by the Department of Educational Leadership Studies.

Instructional Communication Certificate

The 12-credit hour graduate certificate in Instructional Communication is designed to help students achieve instructional communication competency that can be applied in a wide range of contexts. Specifically, this program will:

1. provide students with a multi-faceted view of instructional communication theory and research methods
2. prepare to students to effectively plan, lead and assess communication effectiveness in diverse instructional contexts
3. provide students with the knowledge and skills to be competitive in a knowledge and technology-driven society.

International Education Certificate

The graduate certificate in International Education will prepare graduate students for careers in international education, including but not limited to education abroad, international student services, and placement in other international organizations which support the exchange of students. The field of international education is a critical component of the internationalization of higher education in the united states and abroad. This certificate is designed for any graduate student (or admitted postbaccalaureate student) wishing to enhance their graduate degree. The proposed curriculum includes a combination of nine hours of core courses and six hours of elective coursework. In preparing to complete their certificate, students must identify a regional concentration, and are encouraged to participate in some form of professional or experiential learning opportunity to acquire skills in management, program development, and/or assessment. Although the certificate does not require language coursework as part of the curriculum, participants are also required to describe their language proficiency relative to their professional and regional concentration so that they are aware of and prepared to be competitive in the field.

Latin American, Caribbean, and Latino Studies Certificate

This certificate is directed primarily at graduate students whose intended academic and/or professional careers in research, teaching, and public or private sectors incorporate a focus on the geographical and cultural region of Latin America, the Caribbean, and the populations of Latin American and Caribbean descent living in the United States, Europe, and other parts of the world. It provides graduate students with the skills and knowledge to connect Latin American, Caribbean, and Latino topics to their research agendas. It is pursued concurrently with the regular MA and PhD degree programs of participating departments. To be awarded the graduate certificate in Latin American, Caribbean, and Latino/a studies, the student must successfully complete four courses amounting to 12 graduate credit hours with an overall GPA of 3.0 or higher.

Latin Studies Certificate

The Latin Studies certificate curriculum, consisting of a sequence of four courses in Latin language and literature, aims at two groups of students in particular. First, it is aimed at graduate students who need strong Latin skills for any academic discipline in which Latin is important, including not only classics, but also history, philosophy, theology, etc., and who are already engaged in, or hope to undertake advanced study in one or more of these fields. The certificate curriculum will offer to such students an interdisciplinary opportunity to gain a superior command of Latin in a highly concentrated format, but in a relatively brief period of time. Second, it is aimed at the training of new Latin teachers for the high school level and even pre-high school instruction. The Latin studies certificate curriculum will be highly useful for those interested in teaching Latin, because it will provide a much deeper immersion in Latin language and literature than what has so far been usual for students seeking careers as Latin teachers, and will ensure that all who complete it acquire not merely reading skills, but also considerable active command of the language.

Leadership for Deeper Learning Certificate

The graduate certificate in Leadership for Deeper Learning examines the systemic changes to teaching and learning within schools. The courses within the certificate (EDL 662 Leading for Next Generation Learning, EDL 664 Assessment Leadership, ELS 620 Leading Action Research and Inquiry 1) focus on inquiry learning, project-based learning, performance assessments, competency learning models, and a variety of other components of systems of teaching and learning that provide deeper, more equitable learning opportunities for students in educational organizations. This certificate is one of four offered by the Department of Educational Leadership Studies.

Lean Systems Certificate

Lean Systems is a proven technique for reducing waste, improving productivity, and increasing the bottom line found to be effective across many industries, businesses, and organizations. Companies spend a lot of money educating their current employees and place a high premium on new graduates who have already acquired knowledge in the field. The graduate certificate in lean systems is based on the Toyota production system (TPS) and requires 12 credit hours of coursework.

Liberal Studies Certificate

There is a persistent and growing demand among employers for workplace professionals who possess strong communication, research, and critical thinking skills beyond those attained as undergraduates. These skills can be difficult for people to continue developing after completion of the initial Bachelor's degree.

Drawing on the Liberal Arts disciplines, the Online Graduate Certificate in Liberal Studies offers students the possibility to develop proficiencies from among a cluster of significant employment-related skills, such as critical and complex thinking, clear writing and communication, effective collaboration, research, cultural literacy, and awareness and sensitivity to the context and historical attributes of key issues in today's society.

The certificate's flexible curriculum allows students to easily tailor highly individualized programs of study to their own pace. The certificate will augment students' career and professional opportunities by helping them to become better decision makers; more effective strategists and thinkers; better leaders and team members; more socially and historically aware citizens; and more adept writers and communicators.

The Graduate Certificate requires 12 credit hours of coursework including one core course (PHI 522 Advanced Critical Thinking) and three additional courses from the list of approved courses (students must take courses from at least two of the five fields of inquiry).

Manufacturing Systems Certificate

Competitive markets require manufacturing organizations to be increasingly efficient, innovative and sustainable. Highly skilled manufacturing engineers with advanced technical knowledge and capabilities are essential to the success of these organizations. The Manufacturing Systems certificate program is designed to develop manufacturing engineers with the knowledge, skills and attitude required for value creation by designing, manufacturing and managing more sustainable products, processes and systems. The certificate is structured as a four course program with all courses available entirely online. It provides graduate level qualifications for engineers and manufacturing professionals in industry who are interested in expanding their qualifications with less of a time investment than is required for a full master's degree.

Military Behavioral Health Certificate

The graduate certificate in Military Behavioral Health curriculum will benefit students by enhancing their understanding and appreciation of cultural and environmental factors that affect individual and family functioning for military and veteran populations. They will gain skills in assessment, intervention, and prevention of psychosocial problems typically encountered by this population. In order to earn the graduate certificate students must complete a total of 12 credit hours. Students will complete three designated 3 credit hour courses, SW 530 responding to military and veteran populations (appendix I), and SW 738 independent work with military populations (appendix II), FAM 759 special topics: working with military families. Eligibility is limited to students who hold, or are pursuing, a graduate degree in the counseling professions. These include social work, family sciences, clinical psychology, and educational, school and counseling psychology. Graduate and post-graduates from other human services disciplines may petition the advisory board for acceptance to the certificate. Exceptions will be evaluated by the advisory board on a case-by-case basis. The board will consider exceptions based on assessment of the applicant's academic and vocational history. All applicants must apply to the certificate director for admission.

Musculoskeletal Injury Management Certificate

The Graduate Certificate in Musculoskeletal Injury Management is designed to provide advanced education and clinical experience for credentialed clinicians (i.e. Athletic Trainers, Physical Therapists, Occupational Therapists, Physicians, Physician Assistants, etc.) that manage injuries in physically active populations.

Graduates from our program will emerge as advanced clinicians with post-professional knowledge and clinical experience that will be highly competitive for positions providing healthcare services in a variety of employment settings (i.e. traditional athletics, physician's clinic, out-patient rehabilitation setting, occupational setting). Students will receive focused coursework that provides advanced didactic education related to mechanisms of musculoskeletal injury and current evidence for clinical management of these conditions. We will couple this with hands-on laboratory learning that will advance the learners knowledge, skills and abilities related to evaluation and treatment of musculoskeletal injuries. Students enrolled in this certificate program who hold the athletic training credential may be eligible for an Athletic Training Fellowship. These Fellowships will provide students the opportunity to work as an Athletic Trainer with one of our clinical partners to provide athletic training services in a variety of settings, including collegiate, high school and middle school athletics.

Music Theory Pedagogy Certificate

The graduate certificate in Music Theory pedagogy is intended primarily for DMA. (Doctor of Musical Arts students who wish to gain experience and expertise in theory pedagogy in order to strengthen their background for increased marketability in higher education. Students desiring admission into this certificate curriculum will be interviewed by a committee consisting of members of the theory faculty and a music faculty member outside of theory. The interview will include an appraisal of the student's keyboard proficiency, sight-singing and aural skills, and understanding of theoretical concepts. The student's scores on graduate entrance exams in music theory will also be assessed. It is assumed that any student granted admission into the certificate curriculum would have been accepted as a student in the Graduate School.

Next Generation Teaching and Learning Certificate

Next Generation Teaching and Learning incorporates 21st century skills (collaboration, communication, technology, critical thinking, problem solving and performances of learning), is a current direction in educational endeavors in a variety of learning environments from k-12 classrooms and teacher professional development to museums and after-school programs. This certificate combines required next generation foundations and assessment components with specialty electives, representative of cutting-edge innovative pedagogy. The certificate comprises 12 hours of graduate coursework as follows: nine (9) credit hours of required course work comprised of three (3) hours of the next generation learning foundations course, three (3) hours of an internship choice, three (3) hours of a course on data-driven decision making and a final three (3) chosen from specialty course options. A key purpose of the certificate work is a demonstration of research to practice knowledge and skills, through implementation and assessment of next generation pedagogy in a field setting.

Non-Profit Management Certificate

The Graduate Certificate in Nonprofit Management is designed to provide skills to support graduate students and professionals in leading, directing, and managing organizations in the nonprofit sector. The certificate benefits students seeking careers in the nonprofit sector, professionals currently working in the nonprofit sector, and government employees transitioning to the nonprofit sector. The certificate includes 12 credit hours comprised of three mandatory classes and one elective focused on unique aspects of the nonprofit sector including management, finance, and organizational operations. The graduate certificate can be obtained as a stand-alone program but can also be integrated with other degrees offered by the Martin School of Public Policy and Administration. The certificate also offers flexibility as students may complete the program partially or fully online. Two of the required courses are offered in the traditional, face-to-face modality each fall, so students can choose to take those sections or the online sections. The spring courses are only offered online. For more information visit <https://martin.uky.edu/>

Orff-Schulwerk Certificate

Orff Schulwerk is the music approach created by composers Carl Orff and Gunild Keetman. The Schulwerk is a way to teach and learn music using poems, rhymes, games, songs, and dances as basic materials. The University of Kentucky offers Schulwerk teacher training courses, mostly in the summers, taught by Orff experts. Training is given at levels 1, 2, 3 and advanced master's courses in different topics such as curriculum design, and composition. The graduate certificate in Orff Schulwerk is a twelve-hour curriculum in four components:

1. Orff teacher training level one (MUS 560/561, 2-4 credits).
2. Orff teacher training level two (MUS 560/561, 2-4 credits).
3. Orff teacher training level three (MUS 560/561 2-4 credits)
 - Or Orff master courses (prerequisite: Orff teacher training level 2)
4. Certificate project (MUS 767 1-3 credits) (prerequisite: Orff teacher training level 2)

Each student must take all four of the components, each at two credits minimum, for a total of 12 credit hours. Each component is offered at variable credits. All credits earned in this certificate may be applicable towards the Master of Music in Music Education degree (M.M.M.E.) or the rank i in music education program. Admission requirements are the same as those in effect for post-baccalaureate status, and approval of the certificate director. The certificate is awarded upon completion of the certificate curriculum within five years, and with a minimum of 3.0 GPA.

Orofacial Pain Certificate

The program is a 42-credit hour Graduate Certificate in Orofacial Pain designed to meet the needs of the dental practitioner interested in practicing the management of orofacial pain. The dental profession has recently recognized the field of orofacial pain as a dental specialty that requires clinicians to gain specialty status in orofacial pain. The two-year certificate program will meet the criteria for board eligibility for orofacial pain specialty. This certificate is designed as a complement to the MS in Orofacial Pain, where the difference the proposed certificate program and the already established MS Dentistry's concentration in Orofacial Pain is a research component.

Physiology Teaching Certificate

The graduate certificate in Physiology Teaching provides a mechanism for students to document their competency in the basic skills necessary to teach a comprehensive physiology course. The certificate will be accessible to participants enrolled in a wide range of biomedical disciplines, but it will be especially valuable to medical science graduate students that anticipate a career in academic physiology. This 15-hour certificate is significant in that many doctoral programs in the medical sciences emphasize preparation for a research-oriented career but do very little formal instruction related to education and teaching. Our department has historically placed a high emphasis on the training of graduate students for both research and teaching careers. This certificate will recognize and document that emphasis for the students that choose to complete the certificate requirements. As research in physiology becomes more specialized, utilizing molecular and cellular approaches, there is a very real and distinct demand for physiology instructors that have experience in all levels of physiology teaching, especially systems physiology.

Population Health Certificate

The Graduate Certificate in Population Health packages the core courses of the Master of Public Health (MPH) degree into a concentrated learning experience with four (4) classes for a total of 12 credit hours. Now available 100% online, this certificate program provides a valuable credential for those seeking to join

the public health workforce or expand current knowledge and skills. It's also the perfect introduction to further study in Public Health, as all credits can be applied to the 42-hour MPH program. Currently enrolled graduate students or those applying to a graduate program and post-baccalaureate graduate students may apply to the Graduate Certificate in Population Health.

Positive Youth Development Certificate

The graduate certificate in Positive Youth Development (PYD) is designed to provide students with a background in PYD frameworks and how these can be used to create intentional learning experiences in non-formal educational situations. This 12 credit-hour certificate includes 9 hours of required courses and 3 hours in an elective selected by the student. Completion of this program provides basic competency in the science of PYD at the graduate level along with documentation of their abilities. The certificate is accessible to participants from a wide range of disciplines and backgrounds and is available fully online. The certificate will provide students with the knowledge base they need to demonstrate an understanding and commitment to PYD principles and their intentional inclusion in non-formal learning experiences.

Power and Energy Certificate

The purpose of the proposed graduate certificate in Power and Energy is to provide students with state of the art knowledge in power and energy areas and produce well trained graduates in Power and Energy areas. It is anticipated that there will be a substantial shortage of power and energy professionals in the national labor force in the near future. To help train more power and energy engineers, the department of energy (DOE) issued a call for proposals on power and energy workforce training in December 2009. The college of engineering submitted a proposal and was awarded a grant to create a Power and Energy Institute of Kentucky (PEIK) to train the next generation of power and energy professionals. As part of the proposal, we have proposed to offer a graduate certificate in power and energy. In close collaboration with industry, the institute will combine existing UK College of Engineering power engineering courses with newly created courses to provide students with an attractive, clearly-marked pathway into the power engineering workforce.

Power Systems Certificate

The online Graduate Certificate in Power Systems is designed to provide students with the core knowledge and latest advancements in power systems analysis, modeling, operation, control, optimization, and integration of renewable energies, and produce well trained graduates in this specialty. Students will learn the theory in various aspects of power systems and master the tools and techniques for planning and operating power systems and solving real-world problems.

The credits earned through this certificate will count towards the MS or PhD degree in electrical engineering if the students decide to continue their graduate studies at UK.

Professional and Technical Writing Certificate

The Graduate Certificate in Professional and Technical Writing provides immediate workplace skills and knowledge in organizational writing, manual writing, policy writing, technical writing, grant writing, and technical legal writing. It is designed for working professionals who are interested in continuing their education in professional and technical writing. All courses are online, and the certificate can be completed in a flexible and timely manner.

Public Financial Management Certificate

The Martin School of Public Policy and Administration offers a fully online Graduate Certificate program in Public Financial Management. This program is attractive to students desiring an introduction of class offerings in public financial management. The online 12 credit hour Graduate Certificate program in Public Financial Management fills an additional niche as an alternative for those who are not interested in seeking a full master's program in that area. Students may apply the coursework towards the corresponding Master's in Public Financial Management upon completing the graduate certificate. The graduate certificate includes 4 mandatory courses (PA 631, PA 632, PA 625, PA 627) focused on public financial management, public funds management, and governmental accounting and auditing. The courses are offered annually, allowing students to complete the certificate in two semesters. The Graduate Certificate in Public Financial Management is designed to meet the current and expanding national demand for well-trained financial managers for public and non-profit organizations. The curriculum can also be a desirable means of professional development training for employees in the public sector. The Graduate Certificate in Public Financial Management is approved by the Kentucky Department of Education to qualify for mandatory continuing education credits for school finance/budget officers. For more information about this program visit <https://martin.uky.edu/>.

Research Methods in Education Certificate

The RMinE Graduate Certificate provides students with the ability to specialize in education research methods that can be applied to a host of disciplines, e.g., social sciences, physical sciences, K-12 instruction/administration, and business. The certificate combines 12 hours of core courses and 3 hours of elective coursework for a total of 15 hours. Students will receive a foundation in a range of approaches to research, including quantitative methods, assessment, evaluation, and measurement, which can be applied at the introductory level to their specific fields. The program is open to all University of Kentucky students admitted to the Graduate School who want to demonstrate they have completed rigorous coursework in research methods.

Risk Sciences Certificate

The graduate certificate in Risk Sciences provides the foundational understanding of risk and crisis communication and the opportunity to develop practical application of this knowledge. Organizations and entities of various sizes are becoming keenly aware of the need for effective communication in risk and crisis contexts. This certificate will prepare students to meet this need. The certificate will require twelve credit hours, including risk communication, crisis communication, training and consulting, and knowledge management. Research implications (both theoretical and practical), lessons learned, and new theories of community risk communication will be included in the curriculum.

School Social Work Certificate

The graduate certificate in School Social Work is designed to prepare social workers to practice school social work, a specialized field of practice. The program also meets the Kentucky education professional standards board mandated requirements for school social work certification. The certificate program is available to: (1) UK degree seeking graduate students in the master of social work program, and (2) post-baccalaureate (non-degree) students who already hold the MSW degree from a CWSE accredited social work program. The minimum credits required are 17 for the MSW program students and 9 for post-baccalaureate students who hold the MSW. Applications for admission are evaluated, and students' progress is monitored and approved by a committee made up of professors from the Colleges of Social Work and Education.

School Technology Leadership Certificate

The graduate certificate in School Technology Leadership is conceptually framed around the international society for technology in Education's National Educational Technology Standards for Administrators (NETS-A). Students who engage in this graduate certificate will typically be educational administrators at all levels who want to learn how to support technology-suffused education and lead digital-age schools. This certification is focused on creating skills and dispositions for individuals committed to making systemic and lasting changes in schools, districts, states, and nations.

Senior Diversity Officer Leadership Certificate

This is a nine-hour, fully online Graduate Certificate in Senior Diversity Officer Leadership prepares students for high-level administrative positions in diversity, equity, and inclusiveness leadership in higher education settings. Colleges and universities across the nation are seeking leaders to serve as change agents, bringing innovation, creativity, and high-level strategic thinking to diversity, equity, and inclusiveness roles on their campuses.

This graduate certificate is designed to inspire and equip students for innovative, high-level strategic thinking in diversity, equity, and inclusion roles in higher education and related settings.

Social Theory Certificate

This certificate offers students systematic multidisciplinary training in social theory. It augments, and is pursued concurrently with, the regular MA and PhD Degree programs of participating departments. In total, the certificate requires ten hours of course work, can be pursued in tandem with regular degree programs, and is open to all graduate students at the University of Kentucky.

Sport, Fitness, and Recreation Management Certificate

This 12-credit graduate certificate in Sport, Fitness, and Recreation Management is designed for current professionals to increase their understanding of leadership skills and principles. The graduate certificate will offer students the opportunity to be a part of the University of Kentucky tradition, while also advancing a knowledge base in leadership principles including but not limited to: legal issues, policy & governance, and historical foundations of athletics.

Stream and Watershed Science Certificate

The Stream and Watershed Science graduate certificate provides students with an understanding of the complex physical, biological and social systems involved in stream and watershed related issues. The certificate has an interdisciplinary focus and is administered by faculty in Biosystems and Agricultural Engineering with an advisory committee consisting of faculty representatives from the College of Agriculture, Food and Environment, College of Arts and Sciences, and College of Engineering; the Center for Applied Energy Research; the Gatton College of Business and Economics; and the Graduate School. Students may earn the certificate while making normal progress towards attainment of an MS, MA or PhD degree or while enrolled in post-baccalaureate status.

Structural Engineering Certificate

Expand and deepen your expertise in structural engineering analysis and design. The online Graduate Certificate in Structural Engineering is designed to provide all engineering students with core knowledge in prestressed concrete, steel structures and matrix structural analysis. The courses will be beneficial to current engineering students and practicing engineers. The Certificate offers three (3) courses, 3-credit hours each, to provide technical skills required to develop more sustainable and resilient infrastructure. The courses can be applied toward graduate degrees in civil or other engineering fields. Additionally, each course can provide significant professional development hours that potentially satisfy a state's Engineering professional licensing requirements.

Substance Use Disorders Certificate

The Substance Use Disorders Certificate is a 9 credit hour and 100% online graduate certificate which is taught by experts with years of diverse social work experience. The Substance Use Disorders certificate will deepen your understanding and ability to provide evidence-informed assessment and effective intervention related to substance misuse.

Students will also gain valuable hands-on experience through an advanced practicum designed to improve your assessment and intervention skills related to substance misuse.

Teaching English as a Second Language Certificate

The objectives of the 12-credit hour graduate certificate are three-fold:

1. Prepare teachers skilled in supporting the development of English language learners
2. Provide candidates with a rigorous introduction to the core disciplines in English language teaching: linguistics, language acquisition and pedagogy
3. Provide candidates with field-based experiences and in-class teaching opportunities in order to develop practical knowledge and skills of second language classroom teaching practices.

Teaching in Culturally and Linguistically Diverse Classrooms Certificate

The graduate certificate in Teaching in Culturally and Linguistically Diverse Classrooms addresses increasing demand to prepare teachers to better address the learning needs of K-12 classrooms with increasing cultural and linguistic diversity among students. Certificate coursework takes a comprehensive approach to supporting English Learners and other historically under-served populations by addressing aspects of cultural and linguistic diversity across the curriculum within a regular classroom context. Coursework supports students in developing a knowledge base, planning, and application of strategies related to language and literacy development, second-language acquisition, classroom relationships, family collaboration, assessment, instruction, discourse, and socio-political consciousness.

Telehealth Certificate

This one-year 9-credit online interprofessional certificate methodically prepares you to be a leader in the development, implementation, and evaluation of telehealth models. Course content will cover information relevant to telehealth use across generations and associated contexts of care (e.g., medical, schools, home). Upon completion of the certificate, you will be able to:

1. Implement telehealth in a variety of settings with diverse patient populations across the lifespan in accordance with professional ethics and state and federal rules and regulations.
2. Train support personnel to assist the healthcare provider and patient during a telehealth encounter.
3. Develop, market, and evaluate a telehealth program considering multiple levels, including consumer, provider, organization, community, and policy.
4. Use interprofessional practices within a telehealth model.

Tobacco Treatment Specialist Certificate

The Tobacco Treatment Specialist Graduate Certificate provides extensive knowledge and counseling skills training for treating tobacco dependence, the number one cause of preventable death and disease. The certificate content is divided into three 3-credit hour courses (NUR 621, 622 and 623) and is valuable to persons working in healthcare, including behavioral health, health promotion and prevention, and public health. Participants will critically review the literature on tobacco products and use, health effects, treatment, prevention, and policy. The certificate is an extension of the accredited BREATHE Tobacco Treatment Specialist Training. Successful completion of this program will provide participants with a certificate that can be used as eligibility to apply for a national certificate in tobacco treatment practice.

Vocal Pedagogy Certificate

In order to increase marketability in higher education and be prepared to meet the challenges of teaching voice in the 21st century, the graduate certificate in Vocal Pedagogy is intended primarily for students pursuing a Master of Music (MM) and Doctor of Musical Arts (DMA) degrees in voice and choral conducting who wish to gain more experience and expertise in the science and art of teaching. The proposed certificate could also be pursued by: 1) college and high school choral conductors interested in vocal health and production; and 2) graduate students in communication disorders in the College of Health Science looking to increase their knowledge and understanding of the singing voice. Many new openings in higher education look favorably toward those candidates with secondary areas of expertise and especially pedagogical training. This certificate could be pursued concurrently with the regular MM and DMS degree program of the school of music. The certificate requires the completion of 15 credit hours.

Masters

Accounting, MSAC

The accounting profession includes a variety of career opportunities. Whether you decide to go into public or private accounting, your options are practically unlimited. Choose a career in companies of all sizes, where you can work in numerous areas, including auditing, taxation, financial accounting and reporting, management accounting, financial analysis, and governmental accounting. The Master of Science in Accounting (MSACC) program is a 30-credit hour program that guides students through a modular sequence of courses that coincides with the CPA exam. Candidates who already have an undergraduate accounting degree can complete the program in just 10 months while having the opportunity to study and sit for the CPA exam. Our Bridge Program for non-accounting majors can be completed in as little as 14 months while also allowing candidates the opportunity to study and sit for the CPA exam.

Admission Requirements

All majors are encouraged to apply. Applicants will be evaluated for admission based upon their undergraduate and/or accounting coursework grade point averages, essay responses, reference evaluations, and their TOEFL score (if applicable).

- Applicants must have earned an A or B letter grade in the following courses or their equivalent. These courses must be based upon U.S. GAAP, US auditing standards, and IRS tax law.
 - Financial Accounting (ACC 201)
 - Managerial Accounting (ACC 202)
 - Intermediate Accounting I (ACC 301)
 - Intermediate Accounting II (ACC 302)
 - Accounting Information Systems (ACC 324)
 - Auditing (ACC 403)
 - Concepts of Income Taxation (ACC 407)
- Undergraduate accounting GPA of 3.2 or greater
- Overall GPA of 3.0 or greater

- Three references from former professors for non-UK students

- Essay - In 800 to 900 words, discuss the reasons you wish to pursue a MSACC degree at the University of Kentucky's Von Allmen School of Accountancy. Please address the following in your essay:
 - Academic preparation and accomplishments for graduate study
 - Leadership qualities and motivation
 - Previous accounting and/or relevant work experience
 - Expectations for the MSACC program
 - Your short-term and long-term goals and how a MSACC degree will help achieve these goals
 - Any additional information you feel is relevant
- International applicants must also submit Official TOEFL score with a minimum TOEFL IBT score of 90 or IELTS score of 7, or score at least 30 on the verbal section of the GMAT exam. Waived for students with U.S. degrees.

Degree Requirements

The 30 credit MSACC program requires candidates to complete 24 credits of required courses and 6 credits in open electives. The required courses are:

- ACC 507 ADVANCED TOPICS IN TAXATION
- ACC 516 ADVANCED TOPICS IN FINANCIAL REPORTING
- ACC 601 RESEARCH IN ACCOUNTING THEORY
- ACC 603 ATTEST FUNCTION
- ACC 617 SELECTED TOPICS IN TAXATION
- ACC 621 UNDERSTANDING FINANCIAL STATEMENTS
- ACC 624 ENTERPRISE INFORMATION AND CONTROL SYSTEMS

- MGT 641 LEGAL ISSUES IN THE ACCOUNTING PROFESSION

The two graduate elective courses can be selected from additional graduate level accounting courses or other business related graduate courses at the 500 and 600 level.

Applicants can learn more about the MSACC program by visiting the following website:

<https://gatton.uky.edu/programs/masters/master-science-accounting>

You can also email questions to the program director at johnsmigla@uky.edu

Agricultural Economics, MS

The Department of Agricultural Economics provides programs leading to the degrees of Master of Science and the Doctor of Philosophy. Graduate Faculty in the department provide areas of emphasis in agricultural policy, price analysis, agricultural marketing, agribusiness, farm management, domestic economic development, and production economics. Students must complete a core of courses in agricultural economics, economics and statistics.

Students holding degrees in agricultural economics are employed by academic institutions, local, state, and federal agencies that deal with agriculture, natural resources and economic development; private firms in the agricultural and business sectors; and agencies and governments of foreign countries. These agricultural economists conduct research, develop extension services, teach classes, and serve as managers and administrators in various types of firms and agencies.

Admission Requirements

Students entering the M.S. program are expected to have at least one course in each of the following areas: intermediate microeconomics, calculus, and statistics. An undergraduate degree in economics is advantageous, as is a good background in mathematics. There are no minimum GPA or GRE requirements beyond those of the Graduate School, but such information, along with letters of recommendation, is used qualitatively in the admission decision.

Degree Requirements

The master's program is offered in either Plan A or Plan B. The thesis option (Plan A) requires a minimum of 30 hours of graduate credit, a research thesis and an oral final exam. Plan B requires a minimum of 36 hours of graduate credit and an oral final exam.

Graduate students have considerable flexibility to structure their program with respect to course work and research topics consistent with individual interests. Each student has a major professor and an advisory committee to assist in course work selection and in the thesis and dissertation research.

A graduate handbook is available that provides information regarding program content, degree options and available financial assistance.

Animal and Food Sciences, MS

The degree of Master of Science is available in Animal & Food Sciences. Degree programs in Animal & Food Sciences provide advanced study and are divided into the disciplinary areas of animal nutrition, reproduction, physiology, and food science. Special interests in beef or dairy cattle, horses, poultry, sheep and swine may be pursued within many of these areas. Programs in food science offer specialization in food chemistry, food microbiology, food safety, meat biochemistry, and meat processing.

The MSASC degree is available in two options:

- Plan A: 30 credits, including 6 credits of thesis research, plus a Master's thesis.
- Plan B: 36 credits

Admission Requirements

- Applicants to the Master's program must have completed a four-year degree at an accredited institution of higher education, must have achieved at least a 3.00 GPA for all undergraduate courses, and must submit scores from the verbal, quantitative, and analytical portions of the Graduate Record Exam (GRE). Applicants must have completed; 1 course calculus or physics, 3 courses biology/ physiology, 3 courses chemistry (including 1 organic chemistry or biochemistry). Additional courses in physiology, cell biology, microbiology, and anatomy are encouraged.

Degree Requirements

- ASC 771 ANIMAL SCIENCE SEMINAR Section 1
- ASC 771 ANIMAL SCIENCE SEMINAR Section 2

<http://afs.ca.uky.edu/students/graduate>

Applied Anthropology, MA

Since its inception in the 1960s, the graduate program has been nationally recognized as a leader in applied anthropology. We define applied anthropology as research with practical application and impact, but anchored in a rigorous foundation in anthropological theory and method, whether from cultural, biocultural, or medical anthropological, or bioarchaeological, historical archaeological, or archaeological perspectives, for example. With grounding in core anthropological and archaeological theory and method, we train our students to be skilled researchers who can traverse both academic and non-academic settings, bringing to their research a sound intellectual base, and skills for application and practice.

The M.A. degree in Applied Anthropology at UK is designed to train students to apply the theories, methods, and practices of anthropology to solve real world problems with community and organizational partners, and to prepare students for careers in different domains of application or for further graduate study. The

program draws on the department's considerable research strengths in a variety of areas (see website for more information), and puts strong emphasis on training in theory, application, and proficiency in a broad range of current research methods and technical skills. The M.A. in Applied Anthropology program has three Areas of Concentration - Archaeology, Cultural Anthropology and Medical Anthropology. Students must declare their area of concentration in their program application.

Admissions Requirements

If you are entering the Anthropology M.A. program without previous training in anthropology, you might want to read *Perspectives: An Open Invitation to Cultural Anthropology* (a free online textbook available at <http://perspectives.americananthro.org/>) and/or a text recommended by your advisor (e.g., Charles Orser's 2016 text *Historical Archaeology*) prior to your first semester.

Degree Requirements

The degree completion requires 30 credits of coursework. The M.A. degree requires a written report based on the practicum. The report is written with the guidance of a committee of three faculty members. The final examination for the Master's degree is an oral presentation of the practicum project to the department. There is no foreign language requirement for the Master's degree in applied anthropology.

Archaeology Concentration:

The Archaeology concentration is aimed at preparing students for careers in applied archaeological anthropology, including cultural resource management, museum and heritage studies, and public archaeology.

Students are expected to have archaeological field school training before starting graduate school. UKY offers or recommends an archaeological field school each summer, and students who have not participated in a field school will be encouraged to seek mentored field experience through or beyond the program.

Students interested in careers in Cultural Resource Management will be encouraged to enroll in ANT 545 and electives in Historic Preservation, and program revisions are underway to further accommodate CRM career preparation.

Plan of Study:

Course	When taken	Cr Hrs
ANT 525 APPLIED ANTHROPOLOGY	1st semester	3
ANT 650 THEORY IN ARCHAEOLOGY	1st/2nd semester	3

Course	When taken	Cr Hrs
ANT 651 ARCHAEOLOGICAL DATA ANALYSIS	2nd semester	3
3 courses in Archaeology (1 can be allied profession)	1st - 3rd semester	9
2 courses as approved by advisor/committee (may include ANT 790)	1st - 3rd semester	6
ANT 760 - 6 credit hours practicum in applied anthropology	1st - 3rd semester	6
Total		30

Cultural Anthropology Concentration:

The Cultural Anthropology concentration is designed to prepare students for careers in various domains of application, including economic development, rural and urban development, business anthropology, public anthropology, human services, education, consulting and research, program monitoring and evaluation, and work with corporations, governmental and non-governmental organizations.

Plan of Study:

Course	When taken	Cr Hrs
ANT 525 APPLIED ANTHROPOLOGY	1st semester	3
ANT 610 HISTORY OF THEORY IN ANTHROPOLOGY	1st/2nd semester	3
ANT 660 ETHNOGRAPHIC RESEARCH	2nd semester	3
3 courses in Cultural Anthropology (1 can be allied profession)	1st - 3rd semester	9
2 courses as approved by advisor/committee (may include ANT 790)	1st - 3rd semester	6
ANT 760 - 6 credit hours practicum in applied anthropology	1st - 3rd semester	6

Course	When taken	Cr Hrs
Total		30

Medical Anthropology Concentration:

The Medical Anthropology concentration is based on fundamental concerns with the study of social forces and health inequalities, and various programmatic endeavors and community-based responses to them. Participants in the program will receive training in ethnographic methods, community-based participatory research and/or program evaluation along with instruction in anthropological perspectives on health and the intersection of anthropology with public health.

Plan of Study:

Course	When taken	Cr Hrs
ANT 525 APPLIED ANTHROPOLOGY	1st semester	3
ANT 610 HISTORY OF THEORY IN ANTHROPOLOGY	1st/2nd semester	3
ANT 660 ETHNOGRAPHIC RESEARCH	2nd semester	3
3 courses in Medical Anthropology (1 can be allied profession)	1st - 3rd semester	9
2 courses as approved by advisor/committee (may include ANT 790)	1st - 3rd semester	6
ANT 760 - 6 credit hours practicum in applied anthropology	1st - 3rd semester	6
Total		30

Requirements for all M.A. Students:

Practicum:

All M.A. students must enroll in 6 credit hours of ANT 760 (Practicum in Applied Anthropology). The practicum is expected to be the equivalent of a full-time effort for at least one academic semester.

Departmental Presentation:

All M.A. students are required to write a report and to deliver a presentation to the department as a condition of graduation.

Applied Behavior Analysis, MS

The field of Applied Behavior Analysis is the application of the science of behavior to understand and improve human behavior. Our goal is to create a socially significant change in behavior that improves the lives of our clients.

The Master of Science in Applied Behavior Analysis (MS in ABA) is an on-campus degree program that will train graduate students to provide behavior analytic services to individuals with challenging behavior and/or skill deficits. These services are provided through direct care, consultation, support, and training to teachers, staff, parents, and clients. The MS in ABA provides opportunities for graduate students to work within schools, homes, clinics, or related settings with individuals with or at-risk for disabilities (Birth - 21 years of age).

Admission Requirements

1. Applicants must hold a bachelor's degree in psychology, education, special education, social work, communication disorders, or a closely related field.
2. Applicants must have a minimum of a 3.0 undergraduate grade point average or a minimum of 3.25 graduate grade point average.
3. Applicants must secure three (3) letters of recommendations with one related to academic performance (e.g., from professor, advisor) and two related to the applicant's work with children and youth (e.g., from practicum supervisor, research supervisor).
4. Applicants must submit an updated CV (or resume) overviewing their education and experiences.
5. Applicants must submit a writing sample of a scholarly paper (e.g., research paper, literature review completed in APA formatting).
6. Applicants must submit a personal statement describing previous experiences that led to this career goal.
7. Applicants must participate in an interview with program faculty.
8. Upon acceptance, applicants must satisfactorily pass a criminal background check (due to the nature of the work performed by behavior analysts).

Applications are due December 15 for a Fall start.

Degree Requirements

The M.S. in ABA degree is a 42-credit hour program.

The Association for Behavior Analysis International (ABAI) has accepted courses within the MS in ABA program as a verified course sequence. In addition, students in the MS in ABA program will receive required supervision within the practicum setting. The verified course sequence and practicum/supervision requirements will prepare those who complete the MS in ABA to sit for the Board Certified Behavior Analyst

(BCBA) examination. More information regarding the BCBA examination and requirements can be found at www.bacb.com.

Core classes include:

- EDS 601 CONCEPTS AND PRINCIPLES OF APPLIED BEHAVIOR ANALYSIS
- EDS 603 BEHAVIORAL CONSULTATION AND SUPERVISION
- EDS 605 ASSESSMENT AND TREATMENT OF SOCIAL AND ADAPTIVE BEHAVIORS
- EDS 612 ADVANCED PRACTICUM: SPECIAL EDUCATION
- EDS 617 PROFESSIONAL ETHICS FOR BEHAVIOR ANALYSTS
- EDS 618 ASSESSMENT AND TREATMENT OF PROBLEM BEHAVIOR
- EDS 630 ADVANCED METHODS FOR TEACHING STUDENTS WITH DISABILITIES
- EDS 633 SINGLE CASE RESEARCH METHODOLOGY
- EDS 660 OVERVIEW OF CHARACTERISTICS AND INSTRUCTIONAL STRATEGIES FOR INDIVIDUALS WITH ASD
- EDS 661 ADVANCED INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH ASD
- EDS 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE PROGRAM

<https://education.uky.edu/edsrc/eds/degrees-programs/aba/>

Applied Environmental and Sustainability Studies, MA

The online Master of Arts in Applied Environmental and Sustainability Studies prepares graduates for positions in the corporate, government, and non-governmental worlds as a sustainability manager, corporate sustainability specialist, or one of many other fast growing environmental and sustainability professions.

Students take a total of 30 credit-hours of graduate coursework (24 credits of coursework and 6 credits of either capstone research or internship). Coursework consists of three core courses (total of 9 credit hours), two skills courses (total of 6 credit hours), and three elective courses (total of 9 credit hours) to expand their skills, insights and engagement with Environmental and Sustainability Studies. This MA degree only offers non-thesis, plan B options: Upon completing these 24 credit-hours, students take two courses for three credits each to prepare and implement their final Master's research project under the supervision of faculty members. The MA also offers the alternate plan B option of completing six credit hours of internship work under supervision of faculty members. All MA students will have a final oral examination.

Admission Requirements

- CV or resume
- Statement of Purpose (2-3 pages)
- Writing Sample (optional)
- Undergraduate transcript
- A non-refundable \$65 application fee (\$75 for international applicants)

- TOEFL or IELTS score (international applicants only). Minimum scores are listed on the graduate school's admission page.
- GRE or GMAT scores are NOT required for admission to this program.

Degree Requirements

Core Courses (9 Credit Hours)

- ENS 601 ENVIRONMENT AND SUSTAINABILITY: ISSUES AND IDEAS (3 credit hours)
- ENS 602 ENVIRONMENT AND SUSTAINABILITY POLICY AND GOVERNANCE (3 credit hours)
- ENS 603 COMMUNICATING ENVIRONMENTAL AND SUSTAINABILITY STUDIES (3 credit hours)

Skills Courses (6 Credit Hours)

Students choose a total of 6 credit hours from two of the skills courses listed below.

- LA 556 CONTEMPORARY GEOSPATIAL APPLICATIONS FOR LAND ANALYSIS / NRE 556 CONTEMPORARY GEOSPATIAL APPLICATIONS FOR LAND ANALYSIS (3 credit hours)
- MAP 671 INTRODUCTION TO NEW MAPPING (3 credit hours)
- STA 570 BASIC STATISTICAL ANALYSIS (3 credit hours)
- STA 674 REGRESSION ANALYSIS AND DESIGN OF EXPERIMENTS (3 credit hours)
- STA 677 APPLIED MULTIVARIATE METHODS (3 credit hours)

Capstone/Internship (6 Credit Hours)

Students must complete one of two options to satisfy the non-thesis requirement for the Master's in Applied Environmental and Sustainability Studies. All students will be required to complete a one-hour oral exam.

Plan B Option #1 Internship

Complete 6 credit hours of internship coursework:

- ENS 697 INTERNSHIP IN APPLIED ENVIRONMENTAL AND SUSTAINABILITY STUDIES I (3 credit hours)
- ENS 698 INTERNSHIP IN APPLIED ENVIRONMENTAL AND SUSTAINABILITY STUDIES II (3 credit hours)

Plan B Option #2 Capstone

Complete 6 credit hours through a capstone research project and report

- ENS 695 RESEARCH IN APPLIED ENVIRONMENTAL AND SUSTAINABILITY STUDIES (3 credit hours)
- ENS 696 REPORTING RESEARCH IN APPLIED ENVIRONMENTAL AND SUSTAINABILITY STUDIES (3 credit hours)

Elective Courses (9 Credit Hours)

Students must take an additional 9 credit hours from the approved list of courses. Other courses at the 600-level and above that relate to environmental and sustainability studies may be used to satisfy this requirement with the permission of the program director. Students may only count 6 credit hours of ENS 605 (under different subtitles) or ENS 699 (up to 3 credit hours) towards this requirement.

Applied Statistics, MAS

The Department of Statistics offers programs of study leading to the degrees of Master of Science (Plan A or B available), Doctor of Philosophy, and Master of Applied Statistics (Online). The M.S. degree is professionally oriented for the student who plans a career in government, business or industry and is preparatory for the Ph.D. The Ph.D. program offers a broad training in both statistical theory and methods while affording options to suit the student's interests. The statistics Ph.D. is well-suited for academic, business, government and industrial positions. In addition to formal course work and research training, the advanced student has opportunities to gain valuable practical experience by participating in consulting activities under faculty supervision. Master of Applied Statistics is an innovative online professional graduate degree which is designed to train professional, practice-oriented statisticians who have both data analytic and computing skills.

Both, the M.S. and the Ph.D. program offer a Mathematical Statistics track, as well as a Biostatistics track. The latter tracks are designed for students who envision a future at the interface of Statistics and the Life Sciences.

Course work is available in areas associated with statistics such as biological modeling, probability, inference, experimental design and analysis, computational statistics, nonparametric methods, Bayesian analysis, mixed modeling, multivariate analysis, survival analysis, clinical trials, and many other selected topics of the student's choice.

The University of Kentucky is represented on the Committee on Statistics of the Southern Regional Education Board.

Admission Requirements

Students with an undergraduate major in any of the mathematical, physical, biological, social or applied sciences are encouraged to apply.

The minimum GRE and GPA admissions requirements for the M.S. and Ph.D. programs in Statistics are the same as for the Graduate School. However, the number of admissions is limited and admissions decisions are made on a competitive basis. All M.S. applicants must have successfully completed a three or four semester sequence in calculus and a course in linear algebra and have good communication skills. In addition, all Ph.D. applicants must have mastered the equivalent of MA 471G. All Master of Applied Statistics applicants must have completed two semesters of calculus and a course in statistical methodology. Students wishing to apply for teaching assistantships and/or fellowships must submit three letters of recommendation. Applicants wishing to be admitted directly to the Ph.D. program must have an M.S. in Statistics and the permission of the Director of Graduate Studies.

Please see the departmental website for up-to-date information and answers to frequently asked questions about the admissions process.

Degree Requirements

The Master of Applied Statistics is a thirty hour, online, Plan B, professional graduate degree that can be completed in a summer and two consecutive semesters or on a part-time basis. The program is unique in that it uses data visualization and statistical computing to teach fundamental concepts in statistical inference to students with a career-oriented focus on data analysis.

Core Courses (Required for all students)

- STA 645 COMPUTATIONAL THEORY AND DATA VISUALIZATION (3)
- STA 646 FOUNDATIONS OF PROBABILITY AND INFERENCE (4)
- STA 647 STATISTICAL COMPUTING WITH SAS (2)
- STA 648 REGRESSION METHODS (4)
- STA 649 DESIGN OF EXPERIMENTS (4)

The electives can be selected from the menu of courses listed below.

- STA 650 APPLIED MULTIVARIATE STATISTICS (3)
- STA 651 ADVANCED PROGRAMMING WITH R (1)
- STA 652 ADVANCED STATISTICAL MODELING (3)
- STA 654 APPLIED BAYESIAN INFERENCE (3)
- STA 656 STATISTICAL QUALITY CONTROL (3)
- STA 659 ADVANCED STATISTICAL METHODS (3) (subtitle required)

Architecture, MAR

The Master of Architecture is a professional graduate degree, accredited by the National Architecture Accrediting Board (NAAB). This two-year degree comprises the second part of a sequential "4+2" curriculum, in which a student obtains a four-year (pre-professional) Bachelor of Arts in Architecture and concludes with the two-year, professional Master of Architecture degree. Students who receive this degree are eligible to seek professional registration as an architect.

The "3+ year track" is available to students without the pre-professional bachelor's degree or background in design. In addition to Master of Architecture core requirements, students in the 3+ year track take accelerated courses and courses determined by the DGS on a case-by-case basis that achieve design proficiency.

Admission Requirements

Applicants for admission to the Master of Architecture degree program must hold a Bachelor of Arts in Architecture or a Bachelor of Architecture degree from a NAAB-accredited institution. Admission to the program is contingent on acceptance by the Graduate School at the University of Kentucky. Applicants are required to submit a portfolio, a personal essay on graduate expectations, transcripts, and GRE scores.

Students who do not hold a Bachelor of Arts in Architecture or Bachelor of Architecture may apply to the 3+ year track. Applicants are required to submit a portfolio, a personal essay on graduate expectations, transcripts, and GRE scores, and must submit three letters of recommendation.

Admission to the program is based on a review of the submitted materials.

Degree Requirements

To obtain the Master of Architecture degree, students must complete 48 credit hours of graduate work as described in the curriculum below. Every student must complete a Master's Project. Requirements for this degree are governed by and satisfy the accreditation requirements of the National Architecture Accrediting Board.

Credit hours for students in the 3+ year track will vary by student.

MASTER OF ARCHITECTURE - 2 Year Track

Total Hours Architecture Core requirements	33
Master's Project Research	3
Master's Project	6
Electives	6
Total Graduate	48

Please find more information and a curriculum plan on the College of Design website at: <http://design.uky.edu/architecture-degrees/>

MASTER OF ARCHITECTURE - 3+ Year Track

Total Hours Architecture Core requirements	33
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3+ Year Track requirements (typical/varies by student background)	30
Master's Project Research	3
Master's Project	6
Electives	6
Total Graduate (will vary based on 3+ courses taken)	75

Please find more information and a curriculum plan on the College of Design website at: <http://design.uky.edu/architecture-degrees/>

Art Education, MA

The Teacher Leadership Program in Visual Arts Education is a planned two-year experience, including two summers, designed to prepare currently certified art educators to exert independent leadership for improving the performance of P12 schools in the areas of enhanced achievement and increased college and career readiness.

In addition to teacher leadership coursework, each candidate will pursue a selected area of specialization of at least twelve credit hours designed not only to increase his/her content expertise, but also to build the candidate's portfolio of graduate content courses which can lead, under SACS rules, to approval for teaching dual credit courses in the public schools (in collaboration with a local college or university).

Along with theory and practice, art education provides students with a strong foundation in art studio and art history. The Master of Arts (M.A.) in Art Education provides in-service training, professional development, and consultation services to the schools of Fayette County and the Commonwealth of Kentucky.

Admission Requirements

Candidates admitted to the graduate program in Art Education are expected to have completed course work equivalent to an undergraduate major in Art Education (in no case less than 18 hours in Art Education and Education, 12 hours in Art History, and 18 hours in Art Studio). Prospective candidates who do not meet these requirements should seek the counsel of the Program Faculty Committee to make up deficits prior to acceptance into the program. In addition, candidates must submit for review by the Program Faculty Committee, a portfolio of recent artworks and professional writing and other evidence of professional attainment (or a 300-500-word statement of interest in advance studies in Art Education).

Degree Requirements

Requirement To Be Added

Art History, MA

The Master of Arts in Art History prepares students with the course work, language skills, and research experience needed for further graduate study or work in arts organizations or educational settings. The curriculum is structured to provide both breadth and depth of inquiry through a variety of approaches to art history and, more broadly, visual studies. We recommend that courses be selected in consultation with the graduate advisor to take full advantage of the multiple approaches, expertise, and insights of the faculty.

Admission Requirements

Applicants from a wide variety of educational backgrounds may earn a M.A. degree in Art History. However, those without an undergraduate art history major should consult with the art history & visual studies graduate advisor before applying. Depending on one's prior preparation, some students may be advised to enroll as a post-baccalaureate to take selected preparatory courses that may count toward the graduate degree requirements if the student is later admitted to the M.A. program (as outlined in The Graduate School's general regulations). Requirements otherwise conform to UK general requirements for Graduate School admission.

Application Procedures

The Graduate School, which is the administrative unit for all graduate students, and the Art History & Visual Studies graduate program, which is responsible for the academic curriculum, require different application materials. Application materials for admission to the Graduate School include:

- Application form
- Copies of transcripts from all higher education institutions previously attended, which should be uploaded on the appropriate location of the online application. Domestic students are to self-report GPAs for each institution attended. (Tip: Convert transcripts on colored paper to white with black ink so as not to exceed the megabyte limitation on the online form.)
- GRE scores that you self-report in the appropriate location on the online application. (At the point of acceptance into the program, official GRE scores must be requested and sent directly from the Educational Testing Service (ETS) to the University of Kentucky; the Institution Code for the GRE for UK Graduate School is R1837).
- TOEFL scores and/or IELTS scores if an international student.
- Application fee.

Application materials for the Art History graduate program are also to be submitted online on the graduate admissions application and include:

- Brief résumé

- Personal statement that explains your interest in art history graduate study, experience, and plans.
- Sample of research writing, such as an undergraduate research paper
- Contact information in the form of email addresses for two recommenders who will be notified to submit their recommendations electronically to the online system.

Application Deadlines January 1 - for all applicants, including those requesting a teaching assistantship. Students who want an assistantship should send a separate letter that indicates their interest in being considered either by e-mail attachment or in hard-copy form to the Graduate Advisor in Art History & Visual Studies, School of Art & Visual Studies, 236 Bolivar Street, University of Kentucky, Lexington, KY 40506-0090

Degree Requirements

In addition to the provisions below, either option also conforms to general degree requirements for all Master of Arts Programs.

Plan A - Thesis Option

Candidates who plan to continue study at the doctoral level should select Plan A. This option emphasizes art historical research, problem solving, and communication skills. Specific requirements include:

1. Minimum of 30 credit hours of graduate course work.*
2. Foreign language reading competency in one foreign language (German usually recommended).**
3. Satisfactory completion and oral defense of a thesis.

Plan B - Non-Thesis

Option Plan B emphasizes course work to broaden the candidate's foundation in art historical knowledge, theory, and methods. Candidates who plan careers in visual arts fields that do not require a Ph.D. - professional placements in galleries, museums, art organizations, arts administration, etc. - may want to select this option. Specific requirements include:

1. Minimum of 36 credit hours of graduate course work.*
2. Foreign language reading competency in one foreign language (German often recommended).**
3. Satisfactory completion of final comprehensive exam.

*Six of the minimum 30 or 36 required credit hours may be taken in related areas such as anthropology, film studies, historic preservation, history, literature, philosophy, studio art, or women's studies, as determined by consultation with the graduate advisor.

**The foreign language competency requirement may be satisfied by any of the means established by the Graduate School.

Art Studio, MFA

The Master of Fine Arts (MFA) degree in Art Studio is the terminal academic degree for studio artists and the required faculty credential for most institutions of higher learning. In addition to being fully qualified to teach at the college-level, MFA graduates will possess the skills to pursue careers in commercial venues or as full-time practicing fine artists. Students enrolled in the MFA program are encouraged to explore interdisciplinary and cross-disciplinary mediums or concentrate upon a single media dependent upon the direction of their research.

Admission Requirements

While a B.A. or B.F.A. in studio art is the preferred preparatory degree for the M.F.A. program, students from a variety of educational backgrounds may apply. The determinate factor in admittance to the program will be the quality of the submitted artwork.

Application Procedures

The Graduate School, which is the administrative unit for all graduate students, and the Art Studio graduate program, which is responsible for the academic curriculum, require different application materials.

Application for admission to the Graduate School requires:

- A completed application form for the Graduate School (on-line application form available at <http://gradschool.uky.edu>).
- One official transcript from all institutions previously attended.
- TOEFL scores and/or IELTS scores if an international student.
- Application fee.
- An electronic portfolio of 20 recent artworks sent as a .pdf with an image key with title, date, size, and medium for each submitted work as part of that document. (maximum resolution 8" x 10" x 72 dpi - NO PowerPoint presentations). This portfolio is to be uploaded as one document under the "Portfolio"; submission button. If your files are too large, please resize them. If sending timebased materials (such as video), please include a link to your work on a website such as vimeo, personal site, or YouTube.
- A brief letter stating your goals for graduate study and your interest in being considered for an assistantship, fellowship, and or internship and can be uploaded using the "Personal Statement" submission button. A writing sample is not required ignore the prompt.
- A brief resumé uploaded via the CV submission prompt
- Three letters of recommendation

Degree Requirements

The M.F.A. degree will be awarded on the completion of 60 hours of graduate course work. Of these, 30 hours must be at or above the 600 level and 40 hours must be in regularly scheduled graduate courses (excludes the following course types: research, independent study, practicum, residency):

Requirements:

- Art Studio - Students must take a minimum of 33 credit hours of Art Studio courses including A-S 793 GRADUATE STUDIO SEMINAR required of M.F.A. candidates every fall semester of their residency.
- Art History - Students must take a minimum of 9 credit hours of Art History including three hours of A-H 650 ADVANCED CONTEMPORARY ART HISTORY.
- Gallery Practicum - Students must take A-H 502 MUSEUM STUDIES II: INTERNSHIP.
- MFA Thesis - A total of 6 credits of A-S 799 M.F.A. STUDIO THESIS PROJECT are required for the preparation and successful completion of a final one-person M.F.A. exhibition of studio work.

Other Requirements

- Up to 9 credit hours in related graduate courses may be taken outside the School of Art and Visual Studies or elsewhere in the University.
- A foreign language is not required, and the M.F.A. degree is offered only according to Plan B.

Arts Administration, MA

The University of Kentucky prepares the next generation of arts leaders through its innovative online MA in Arts Administration. This degree is designed to serve a vibrant nonprofit arts and cultural industry that attracts more than 78 million Americans each year and generates \$135 billion in economic activity annually that support 4.1 million jobs.

Ideal candidates for the M.A. include individuals who have experience in the arts or arts management and have the desire to supplement this experience with more in-depth training in the form of an advanced business and nonprofit arts-focused degree. These include persons who have graduated with a bachelor's degree in Arts Administration, the arts, or a related field and professionals with experience in the arts or arts management.

UK offers its M.A. in Arts Administration as a completely online program. This provides several benefits to UK graduate students:

1. **Flexibility** - For working professionals, an online program is ideal to provide the flexibility needed to balance work, school and personal obligations.
2. **Time and location** - There is no residency requirement. The program is designed for students to have equal access no matter where they are located
3. **Affordability** - All students accepted into the Arts Administration M.A. program pay the in-state tuition rate regardless of residential location. Additionally, there are a number of financial aid options available to students who meet the requirements.

4. **Quality instruction** - Students who attend online classes will receive the same quality instruction as those who would attend class on-campus.

Admission Requirements

The MA in Arts Administration is open to qualified applicants who have earned a bachelor's degree from an accredited college or university in the United States or abroad. All candidates for admission are selected on the basis of undergraduate transcripts, academic and personal references, and related work experience. Applicants are expected to have a demonstrable commitment to the arts in at least one art form. This requirement can be satisfied in several ways including an undergraduate degree in an art form or arts-related field; professional experience in the arts; or extra-curricular activity in the arts.

All applicants whose native language is not English will be required to submit TOEFL or IELTS scores. The minimum acceptable TOEFL score is 550 (paper-based) 213 (computer-based), or 79 (internet-based). The minimum IELTS score is 6.5. Submitted scores must be no more than two years old.

Applications for admission to the M.A. in Arts Administration program are reviewed by the department's Graduate Admissions Committee. The criteria for admission and the materials evaluated in making admission decisions are listed below. Please keep in mind that applicants are evaluated individually and also in terms of the overall quality of the pool of applications.

To apply for admission to the program, your application should include the following items:

- **Official transcripts**
- A **resume** (no more than two pages in length) indicating your education, professional and volunteer experience, accomplishments and qualifications for graduate study.
- A **statement of purpose** (one page, single-spaced) indicating the reasons for your interest in graduate study in Arts Administration at UK and what they hope to accomplish with their degree. Please also discuss your personal or professional skills that will aid you in successfully completing classes online.
- **Writing samples** (10-15 pages) that preferably would include at least one sample of research writing (college-level or above) but may also include professional writing samples that demonstrate critical and analytical thinking. Professional writing samples may include researched essays, marketing or fundraising materials, planning documents or journalistic work. If you do not have an academic or professional writing sample that you wish to submit, you may opt to write a new paper. The research paper should address one of the following topics and should include appropriate citation and references:
 - Discuss an issue in the arts or arts administration that you believe is of particular concern locally, regionally, nationally or internationally.
 - Select a person who has had a significant influence in an artistic field. Describe and analyze the person's contributions to the arts.
 - Write an essay responding to and providing compelling examples of this quote: "Art is a nation's most precious heritage. For it is in our works of art that we reveal to ourselves and to others the inner vision which guides us as a nation. And where there is no vision, the

people perish." -Lyndon Johnson, on signing into existence the National Endowment on the Arts

- Any arts-related topic of your choosing
- **Two letters of recommendation** addressing the applicant's qualifications for graduate work and proclivity for the field of arts administration. Preferably one letter should come from an academic reference and one from a professional reference. When completing your online application, you will be asked to enter in the contact information of your references including their email addresses. Your references will then receive a notification email asking them to complete a recommendation on your behalf. You can check on the status of your online recommendations by logging in to your online application.

To apply for admission to the MA in Arts Administration, applications must be submitted online to the UK Graduate School. New graduate students are accepted in the fall, spring, and summer semesters.

Degree Requirements

AAD 500 THE ARTS AND ARTISTS IN SOCIETY (3 credit hours)

AAD 600 ARTS ADMINISTRATION TECHNOLOGIES (3 credit hours)

AAD 620 MANAGEMENT AND LEADERSHIP IN THE ARTS (3 credit hours)

AAD 625 FINANCIAL MGMT FOR ARTS ORGANIZATIONS (3 credit hours)

AAD 630 MARKETING RESEARCH AND PLANNING FOR ARTS ORGANIZATIONS (3 credit hours)

AAD 640 PRINCIPLES OF FUNDRAISING (3 credit hours)

AAD 650 THE ARTS AND THE LAW (3 credit hours)

AAD 690 CREATING & EVALUATING NEW ARTS PROGRAMS (3 credit hours)

AAD 730 MARKETING STRATEGIES & APP FOR ARTS ORGS (3 credit hours)

AAD 740 FUNDRAISING TECHNIQUES (3 credit hours)

Graduate Exam - Required for completion of the MA in Arts Administration

Degree Options

AAD 699 INTERNSHIP IN ARTS ADMINISTRATION ** (3 credit hours)

AAD Electives* (3 credit hours)

**Students must complete 3 credits of electives.*

***Students are required to take AAD 699 (unless they are exempt) in which case they will take a 3-credit elective course to be determined in consultation with a faculty advisor.*

Please visit the program website for more information (<https://finearts.uky.edu/arts-administration/online-ma-degree>).

Athletic Training, MS

Program Mission: The mission of the professional Master of Science in Athletic Training at the University of Kentucky is to effectively prepare entry-level athletic trainers, who are life-long learners and servants to their communities, for employment and/or pursuit of advanced education by providing a comprehensive education in a collaborative, evidence-based, patient-centered environment that includes robust educational, scholarly, clinical, and service opportunities.

For Program Goals and Student Learning Goals, please see the Program website: <https://www.uky.edu/chs/athletic-training/professional/achievement>

Accreditation Information: The University of Kentucky is currently seeking accreditation for their new Athletic Training program and is not accredited by the Commission on Accreditation of Athletic Training Education (CAATE). The institution will be submitting a self-study to begin the accreditation process on July 1, 2021. Submission of the self-study and completion of the site visit in early Spring 2022 does not guarantee the program will become accredited. Students that graduate from the program prior to accreditation WILL NOT be eligible to sit for the credentialing examination for athletic trainers and will not be eligible for licensure in most states.

Most states require athletic trainers to have a state license. License requirements vary by state, but most states require that the BOC national certification be earned. This certification requires graduation from a CAATE accredited program. Due to our accreditation status, it cannot currently be determined whether the Professional M.S. in Athletic Training meets the educational requirements needed to obtain a Kentucky athletic training license. Before enrolling, students should learn more about whether the Athletic Training programs meet licensure requirements in Kentucky and all states where they may be interested in pursuing licensure.

Admission Requirements

Must have a minimum overall GPA >3.0 (out of 4.0)

Must have a minimum grade of C in all prerequisite coursework:

- Biomechanics (3 credits)
- Exercise Physiology (3 credits)
- Human Physiology (3 credits)
- Human Anatomy (3 credits)
 - Can be combined Anatomy and Physiology (I and II, 6 credits total)
- Medical Terminology (1 credit or equivalent)
- Statistics (3 credits)
- Basic Emergency Care/First Aid (1 or more credit on academic transcript OR completion proof of training through other mechanism, e.g. Red Cross)
- Psychology (3 credits)
- Physics (3 credits)

- Biology (3 credits)
- Chemistry (4 credits including lab)

Recommended but not required:

- Introduction to Athletic Training
- Research Methods/Scientific Writing

100 observational hours

- At least 50 completed in common athletic training settings

Personal statement

Three Professional References

Current Basic Life Support (BLS) Certification

Undergraduate students outside of UK must demonstrate progression to graduate prior to the beginning of the Professional Program.

Degree Requirements

REQUIREMENTS TO BE ADDED

Each student must be in good standing with the University of Kentucky Graduate School and the Program. The graduation requirements for the University of Kentucky Graduate School include:

- Complete all academic courses (76 credits) with a grade of C or better
- Have a minimum of 3.0 GPA
- Completion of the Final Comprehensive Examination with a 70% or better

Biology, MS

The Biology Graduate Program offers Doctor of Philosophy and Masters of Science degrees (thesis and non-thesis) in Biology, but doctoral training is strongly emphasized. Master's training is not a prerequisite for admission into our doctoral program. Applicants are selected for admission based on their overall academic record, GRE scores, letters or recommendation, prior research experience, and on their expressed interest in our graduate program training areas or the research of the Biology Department faculty members.

Training

Graduate students are trained through a combination of formal coursework and research experience. Research training consists of work on a research project under the guidance of one or more of our faculty members. The specific research project is chosen in consultation with the faculty mentor and typically is closely related to the research interests of that lab. A one-credit Biology Graduate Student Orientation seminar course is required for all first-year graduate students admitted into the Biology program. All students must complete a set of common requirements for the Biology Graduate Program, including seminar courses, research, a qualifying exam (for Ph.D. candidates), and an exit exam (thesis defense for Ph.D. and Plan A M.S.). Additional coursework depends on the area of specialization and is determined with input from the faculty mentor and student's advisory committee and the training program. The training programs include Environmental and Evolutionary Biology (EEB), Molecular, Cellular and Developmental Biology (MCDB), and Tailored Training (TT).

Environmental and Evolutionary Biology Training Program

The Environmental and Evolutionary Biology group supports education and research on the interactions between organisms and their environment from an evolutionary perspective. This includes the study of micro- and macro-evolutionary processes; the physiological, developmental, and behavioral adaptations of individual organisms; predator-prey, mutualistic, and competitive interactions; and community and ecosystem relationships. Faculty members conduct research exploring both basic underlying principles and specific applied consequences of ecological interactions. The group's core philosophy is that major advances in understanding how organisms evolve and function in changing ecological systems are achieved in an interactive, interdisciplinary research environment involving diverse conceptual and methodological approaches. Students achieve this through coursework, topical seminars, weekly research seminars, and research projects guided by their major advisor and thesis committee.

Molecular, Cellular and Developmental Biology Training Program

Molecular, Cellular and Developmental Biology (MCDB) training focuses on fundamental cellular and developmental processes such as gene expression, cell proliferation, cell signaling, development, neural function, aging, and behavior. We apply biochemical, genetic, physiological, and molecular techniques to resolve outstanding issues in biology and use a diverse set of experimental organisms (e.g., fungi, cultured cells, and complex animals ranging from the fruit fly to mouse). Entering MCDB students rotate through two different laboratories before selecting a research mentor near the end of the first year of study. Students participate in weekly research and literature seminars and are guided in the selection of other formal course work in order to best prepare for their thesis/dissertation studies. The faculty and students in the MCDB group interact closely with each other, with colleagues elsewhere on our campus, and with scientists worldwide to achieve a stimulating research atmosphere. Our program successfully prepares students for scientific research careers in academic, industrial and governmental settings.

Tailored Training

The Tailored Training program provides great curricular flexibility. The principal difference between Tailored Training and training in the MCDB and EEB programs is that there are no set course requirements, other than the minimum requirements set by the Biology Graduate Program. The mentor and advisory committee work together with the student to customize a curriculum that best suits the needs, interests, and goals of the student. This may be particularly advantageous for students whose primary interests encompass areas outside of or across the other training programs. The curriculum is unique to each student, but not isolating. The student is encouraged to participate in relevant seminars, journal clubs, or other activities attended by students in the MCDB and EEB training programs or in other University graduate training programs. Students admitted through the Tailored Training option enter the Biology Graduate Program directly into the lab of their research mentor. Applicants interested in admission through this mechanism should contact the faculty member with whom they wish to train and also indicate their lab of choice in the Biology application. Faculty members offering Tailored Training will indicate this option on their web pages.

Financial Support

Full financial support is offered to all Ph.D. and Plan A M.S. students accepted for graduate admission; no financial aid application is required. Support may include teaching assistantships and fellowships provided by the university and department, research assistantships offered by faculty mentors, interdisciplinary traineeships and fellowships or extramural research fellowships to individual students.

Admission Requirements

Anyone with a bachelor's degree from an accredited college or university may apply for admission to the Biology Graduate Program at either the MS or Ph.D. levels. Applicants are generally expected to have an

undergraduate grade point average of at least 3.0 (out of 4.0), a combined verbal and quantitative Graduate Record Examination score of at least 1100 (old scoring system) or 300 (new scoring system) and, for nonnative English speakers, a TOEFL score of at least 550 on paper-based test or 213 on the computer-based test (CBT) or 79 on internet-based test (IBT). Our GRE institution code is 1837 and Department Code is 0206. We encourage completed applications by January 1 although applications will continue to be reviewed until all positions are filled.

Prerequisite college-level coursework includes one year of physics, two years of chemistry, one semester of calculus, one year of general biology, and upper-level courses providing a working knowledge of contemporary biology. Every student entering the Biology Graduate Program is presented with the Graduate School Bulletin at orientation to familiarize the students with UK Graduate School policy. In addition, each student is provided with a copy of the Rules, Regulations & Policies for the Biology Graduate Program which describes the Departmental rules governing the Biology Graduate Program.

The Biology Graduate Program application is available online. This application and additional information about the Biology Graduate Program can be found at the Program website: <https://bio.as.uky.edu/grad-program>.

Degree Requirements

Requirements to be added.

Biomedical Engineering, MSBE

The Master of Science (MS) degree offered by the F. Joseph Halcomb III, MD, Department of Biomedical Engineering at the University of Kentucky seeks to provide students with multidisciplinary experience in basic research, design, development, and practice. The program emphasizes the application of engineering principles to problems in medicine and biology. Students receive educational and research opportunities through the facilities and faculty of the department and its ideal geographic proximity and close ties to other units across the University, ranging from engineering to basic science to clinical departments.

Two options are available:

- MS thesis (Option A): 30 credits of coursework plus a research thesis.
- MS non-thesis (Option B): credits of coursework and a project report.

Admission Requirements

Applicants must meet the general requirements of The Graduate School and are expected to hold a baccalaureate degree from an ABET-accredited engineering program or its equivalent. Applicants with baccalaureates in non-engineering disciplines are considered on a case-by-case basis and may need to take supplementary coursework before official entry into the program; this can be determined by consulting the Director of Graduate Studies (DGS).

Admission to the graduate program normally requires a GPA of at least 3.0 on a 4.0 scale on all graduate and undergraduate work, valid scores on the Graduate Record Examination (GRE), a statement of the applicant's reasons for wanting to pursue graduate education in Biomedical Engineering, and letters of recommendation from three faculty members familiar with the applicant's record. Satisfying the above requirements does not guarantee admission to the program; at the same time, admission decisions are

based on a holistic review of the application without regard to minimum grade or score requirements alone. Applications are reviewed by a committee of BME Faculty on a rolling basis.

Degree Requirements

Required coursework includes:

- BME 540 BIOMEDICAL INSTRUMENTATION
- BME 641 BIOMEDICAL SIGNAL PROCESSING I
- BME 609 BIOMEDICAL ENGINEERING ETHICS
- BME 688 BIOMATERIALS SCIENCE AND ENGINEERING
- BME 6xx Biomechanics Elective
- BME xxx Technical Elective
- BME 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE (Plan A)
- BME 772 SEMINAR (taken twice)
- PGY 412G PRINCIPLES OF HUMAN PHYSIOLOGY
- Math Elective
- Technical Elective

MS thesis (Option A):

- A 30-credit core curriculum plus a thesis on original guided research.

MS non-thesis (Option B):

- 31 credit hours of coursework and a project report.
- Enrollment in the non-thesis option must be requested within the first 9 credit hours of graduate course work and approved by the DGS.
- A Clinical Immersion program is offered under Option B, which provides enhanced experiential learning to prepare students for healthcare and related professions with unique competitive advantages.

For further information, contact the DGS at bmedgs@uky.edu or visit <https://www.engr.uky.edu/research-faculty/departments/biomedical-engineering>.

Biosystems and Agricultural Engineering, MSBAE

The objectives of the Biosystems and Agricultural Engineering graduate program are to develop and strengthen:

1. the ability to plan and conduct research and design involving the application of engineering science to biological and agricultural systems.
2. an understanding of mathematical, physical, and biological sciences that enables critical assessment of scientific literature in these and related fields.
3. the skills required to use precision instruments, techniques and computers in research and design.

4. the ability to make sound engineering and management decisions.
5. the ability to teach college level courses in Biosystems and Agricultural Engineering, particularly at the doctoral level.

Both a Plan A (Thesis) and Plan B (Non-thesis) are available.

Admission Requirements

Admission into the M.S. graduate program of the Biosystems and Agricultural Engineering Department requires the concurrence of the Department Graduate Committee, and the Director of Graduate Studies, and the Department Chair and the availability of an advisor for the student. The Biosystems and Agricultural Engineering Graduate Committee reviews the applicant's three letters of recommendation, resume, statement of professional objective and transcripts with special emphasis given to the science and mathematics area. The department requires a minimum grade point average of 2.8 and a GRE score of at least 1500. An engineering B.S. degree from an ABET-accredited engineering program (or international equivalent) is generally required, however, non-engineering students may be admitted by agreeing to take additional undergraduate courses specified by the graduate committee. Exceptions to these requirements are considered on a case-by-case basis, taking into account the materials described above as well as GRE scores.

Degree Requirements

Graduate students will combine courses in Biosystems and Agricultural Engineering, other engineering fields, the physical sciences, and the biological sciences to develop a program of study that facilitates these objectives. The advanced degrees, however, are primarily research degrees awarded for significant creative research accomplishment, not for the completion of a specified number of courses. Therefore, the program normally concentrates on a strong thesis or dissertation problem completed under the supervision of the graduate faculty of the department. A design-oriented, non-thesis option is also available for the master's degree.

Plan A minimum requirements: Complete a minimum of 30 hours of graduate courses to include, if desired, no more than 6 credit hours of BAE 768, and submit a Thesis.

Plan B minimum requirements: Complete a minimum of 30 hours of graduate courses.

Business Administration, MBA

Gatton's One Year option is an intensive, cross-disciplinary, hands-on experience that will prepare you to be a leader in business and the community. Our curriculum incorporates a number of the core business processes, including marketing, management, and finance; as well as the more technical business courses such as accounting, quantitative analysis, operations management (supply chain), global management, and data analysis. Additionally, you will cover those critical areas that the corporate world values; including leadership, communication and presentation skills, ethics, and strategic thinking. All of this takes place in

highly interactive, action-based courses and learning laboratories situated in the corporate setting through Project Connect a built-in internship in which MBA student teams consult with regional companies.

The Professional Evening M.B.A. program is designed for working professionals seeking to improve their business acumen and expand their soft skills. Modeled by the more traditional learning environment, evening students will study with first-rate professors who are leaders in their fields. In as little as two years, a student in the Professional Evening M.B.A. program will graduate with an advanced degree designed to broaden and enhance their skill set in order to be more competitive in the business world.

Options and Concentrations

- **Dual Degrees**

B.S. in Engineering/M.B.A.

<https://gatton.uky.edu/programs/mba/programs/dual-degrees/engineeringmba>

An opportunity to study for an M.B.A. degree while pursuing a Bachelor of Science in Engineering degree is offered to eligible students admitted to the College of Engineering.

J.D./M.B.A.

<https://gatton.uky.edu/programs/mba/programs/dual-degrees/jdmba>

The College of Business and Economics and the College of Law offer the opportunity to obtain the Master of Business Administration(M.B.A.) and Juris Doctor(J.D.) degrees in a dual degree program. Because both schools recognize that some aspects of business and law are compatible and interrelated, students can obtain both degrees in less time than if the degrees were pursued separately. Students interested in the J.D./M.B.A. program must apply to both the College of Law and the Graduate School. These students may enroll in either the One Year or Professional Evening programs.

M.D./M.B.A.

<https://gatton.uky.edu/programs/mba/programs/dual-degrees/mdmba>

Through an agreement with the College of Medicine, the Gatton College admits eligible students to pursue the M.B.A. degree jointly with the M.D. degree. Students interested in this program must apply to the College of Medicine and to the Graduate School. Students interested in the joint degree will enroll in the MBA program between their second and third year or third and fourth year of Medical School.

Pharm.D./M.B.A.

<https://gatton.uky.edu/programs/mba/programs/dual-degrees/pharmdmba>

Through an agreement with the College of Pharmacy, the Gatton College admits eligible students to pursue the M.B.A. degree jointly with the Pharm.D. degree. Students interested in this program must apply to the College of Pharmacy and to the Graduate School. Students interested in the joint degree will enroll in the Professional Evening program between their first and second year of Pharmacy School.

- **Concentrations**

Professional MBA (For Leaders in Healthcare) Concentration

<https://gatton.uky.edu/programs/mba/programs/professional-mba-leaders-healthcare>

Entrepreneurship and New venture Creation Concentration

<https://gatton.uky.edu/programs/mba/programs/one-year-mba/entrepreneurship-and-new-venture-creation-concentration>

Admission Requirements

- Application for Admission Students who wish to apply for admission to the M.B.A. program in the Gatton College of Business and Economics should submit an online application to the Graduate School.
- Prerequisites for the M.B.A. program include undergraduate accounting and economic courses. These prerequisites can be satisfied as listed below. Prerequisites may be satisfied by:
 1. Passing the required courses (ACC201 and ACC202, ECO201 and ECO202) at the University of Kentucky
 2. Passing the similar courses at another accredited university, including KCTCS
 3. Passing college-level proficiency (CLEP) examinations
 4. Any approved economics and accounting equivalent preparation that is approved by the MBA program.

In addition to satisfying required course prerequisites, applicants must also meet the Graduate School requirements, <https://gradschool.uky.edu/admissions>. Meeting the minimum Graduate School requirements does not guarantee admission to the MBA program. While submission of the GRE/GMAT is required, interested candidates for all MBA program may request a review of a potential test waiver from the MBA Admission Committee, <https://gatton.uky.edu/programs/mba/admissions/gmatgre-waiver-policy>.

Degree Requirements

- **One Year MBA Program:** 51 credit hours
 - DIS 651 QUANTITATIVE ANALYSIS IN BUSINESS DECISION MAKING (3)
 - ECO 610 MANAGERIAL ECONOMICS (3)
 - MGT 697 LEADERSHIP, COMMUNICATIONS & ETHICS (3)
 - MBA 630 PROFESSIONAL DEVELOPMENT (1)
 - MBA 640 PROJECT CONNECT I (4)
 - ACC 628 FINANCIAL/MANAGERIAL ACCOUNTING (3)

MKT 600 MARKETING MANAGEMENT (3)

MGT 610 GLOBAL MANAGEMENT (3)

FIN 600 CORPORATE FINANCIAL POLICY (3)

MBA 642 PROJECT CONNECT II (4)

MBA 615 SUPPLY CHAIN STRATEGY (3)

MGT 611 MANAGING EFFECTIVE ORGANIZATIONS (3)

MGT 699 BUSINESS POLICY AND STRATEGY II (Capstone) (3)

Electives* (12)

*A 600-level courses approved by the Director of Graduate Studies

- **Professional Evening MBA Program:** 36 credit hours

Professional Evening MBA Program - 2- or 3-Year Part-time Program

ACC 628 FINANCIAL/MANAGERIAL ACCOUNTING (3)

ECO 610 MANAGERIAL ECONOMICS (3)

MGT 611 MANAGING EFFECTIVE ORGANIZATIONS (3)

FIN 600 CORPORATE FINANCIAL POLICY (3)

DIS 651 QUANTITATIVE ANALYSIS IN BUSINESS DECISION MAKING (3)

MKT 600 MARKETING MANAGEMENT (3)

MBA 615 SUPPLY CHAIN STRATEGY (3)

MGT 610 GLOBAL MANAGEMENT (3) *

MGT 699 BUSINESS POLICY AND STRATEGY II (3)

Electives** (9)

*CPH 600 Health Services and Systems Organizations is used for the Professional MBA (For Leaders in Healthcare) Concentration. For the Entrepreneurship Concentration, MGT 610 is taken out and replaced with one of the entrepreneurship elective classes.

**Any 600-level courses approved by the Director of Graduate Studies Students are required to have a minimum B grade average to graduate. Students receiving two grades of C or one grade of E may be subject to dismissal from the M.B.A. program.

Chemical Engineering, MSCHE

The Department of Chemical and Materials Engineering offers programs leading to the M.S. and Ph.D. degrees in Chemical Engineering, with research specialization in the following areas:

- Biomaterials
- Drug Delivery
- Energy and Batteries
- Environmental Engineering
- Interfacial Engineering
- Materials Synthesis and Nanomaterials
- Membranes/Advanced Separations
- Molecular Dynamics
- Nanomaterials
- Polymer Science and Engineering
- Process Design
- Water Treatment

Admission Requirements

Admission to the M.S. and Ph.D. degree programs is on a competitive basis, and financial assistance is available through teaching and research assistantships, as well as a limited number of fellowships. Applicants should have a minimum grade point average of 3.0/4.0 on all undergraduate work, and should hold a Bachelor of Science degree in Chemical Engineering or its equivalent. Meeting the minimum requirements does not guarantee admission, as acceptance is on a competitive and space-available basis. Students with undergraduate majors not in chemical engineering (for example, chemistry or physics) may be eligible for direct admission into the M.S. or Ph.D. graduate programs; these individuals are expected to complete a program of selected undergraduate core courses during their first year of study.

Degree Requirements

The M.S. degree in Chemical Engineering requires 24 hours of course work, plus six credits of thesis research and completion of an acceptable thesis (Plan A). This course work includes the chemical engineering graduate core, which is comprised of CME 505, CME 620, CME 630, CME 650, and a graduate-level mathematics elective. In certain exceptional cases (as determined by the faculty), a non-thesis M.S. may be undertaken (Plan B). The non-thesis option requires 30 hours of course work which includes the chemical engineering core, as well as 3 hours of CME 780 SPECIAL PROBLEMS IN

CHEMICAL ENGINEERING. The non-thesis option is only available to those students with prior research or industrial experience. For both Plan A and Plan B, at least half of all graduate course work must be at the 600 level or above.

Chemistry, MS

The Department of Chemistry at the University of Kentucky offers two graduate degrees-the MS and the PhD (doctoral) degree. In the MS degree program, the student has the option of pursuing the MS Plan A, which involves research and a thesis, or the MS Plan B, a non-thesis or coursework-only option. A Master's degree is not a prerequisite for the PhD degree.

Admission Requirements

Four years of chemistry covering the areas of general, organic, physical, and analytical constitute the normal minimum requirement for pursuing graduate work within this Department. Additional prerequisite undergraduate work includes one year of college physics, mathematics through calculus, and training in some foreign language. In special cases, exceptions to these rules may be made by the Director of Graduate Studies and the Graduate Program Committee. An undergraduate grade point average of at least 3.0 (based on a 4-point system) normally shall be required for admission as a graduate student in the Department of Chemistry. The Graduate Program Committee shall, however, be authorized to admit students with averages as low as 2.75, based on such evidence of ability as high GRE scores, recommendations, or excellent preparation. No students with undergraduate averages below 2.5 will be admitted. Graduate Students who lack specified prerequisites, or are found to be deficient in the Proficiency Examinations given during the orientation program, may make up their deficiencies by registering in and successfully completing the appropriate (usually undergraduate) courses.

Degree Requirements

Course work for the MS shall include four core courses, one from each of four of the five areas of chemistry: analytical, biological, inorganic, organic and physical. Students who entered the program prior to the Fall 2014 semester must select one course from each of the two areas where the lowest proficiency examination scores were obtained. The following (three-credit) courses are officially "core" in each area: CHE 626 (Fall Analytical), CHE 623 (Spring Analytical); CHE 550 (Fall Biological), CHE 552 (Spring Biological); CHE 510 (Fall Inorganic), CHE 514 (Spring Inorganic); CHE 538 (Fall Organic), CHE 535 (Spring Organic); CHE 547 (Fall Physical), CHE 548 (Spring Physical). Students will not be making satisfactory progress unless they have completed at least 12 hours of course work other than research and seminar by the end of the first year and 24 hours of course work by the end of the second year. In addition, any time a student's GPA falls below a 3.0, this is automatically considered to be unsatisfactory performance. Students who are not making satisfactory progress after three semesters will be ineligible to serve as teaching assistants and may be terminated in the graduate program.

MS-A (Master's Thesis Plan): A minimum of 30 graduate credit hours, 15 of which must be at the 600- or 700-level (Graduate School requirement). The advisory committee may require additional courses.

MS-B (Master's Coursework Plan): A minimum of 30 graduate credit hours, 15 of which must be at the 600- or 700-level (Graduate School requirement). The advisory committee may require additional courses. Of

these 15 advanced credit hours, the Council on Postsecondary Education currently requires that 12 credit hours be in Chemistry (CHE) courses.

Please see the Department of Chemistry Graduate Program Handbook for more information related to the Graduate Program.

Please visit the Department of Chemistry website for more resources and information.

Civil Engineering, MSCIE

The Department of Civil Engineering has many well-equipped laboratories with active research programs in most areas. The research programs provide financial assistance for graduate students. In addition, financial assistance is available through teaching assistantships, fellowships, and scholarships. Information about the graduate program in Civil Engineering can be obtained by writing the Director of Graduate Studies, Department of Civil Engineering

Admission Requirements

In addition to satisfying general Graduate School and College of Engineering admissions requirements (a GPA of 2.8/4.0 on all undergraduate work is normally required), applicants for admission to the M.S.C.E., and Ph.D. degree programs in Civil Engineering must have been awarded a Bachelor of Science degree from an engineering program accredited by the Accrediting Board for Engineering and Technology (ABET). This requirement may be waived for applicants who have been awarded bachelor's degrees other than in engineering or from unaccredited engineering programs (including those offered by foreign institutions) if the applicant has received an acceptable score on the Graduate Record Examination (GRE).

Students with undergraduate majors not in engineering must also take a certain number of undergraduate remedial courses. Neither the M.S.C.E. degree nor the Ph.D. degree in Civil Engineering will be conferred unless the candidates have successfully completed, during their undergraduate and/or graduate careers, at least one basic course in at least four of the following seven areas: civil engineering materials, construction engineering and management, environmental engineering, geotechnical engineering, hydraulics and water resources engineering, structural engineering, and transportation engineering.

Another admission requirement is a minimum combined verbal and quantitative scores of GRE as follows: 1000 (300: New GRE), and 1100 (330: New GRE) for Master's and Ph.D. degree applicants, respectively. Scores on the analytical portion are not considered. Foreign applicants whose native language is other than English must take the Test of English as a Foreign Language (TOEFL) and score at least 550 (Computer Based TOEFL: 213, iBT TOEFL: 80).

Degree Requirements

For the Master of Science in Civil Engineering (M.S.C.E.) degree Plan A, 30 credit hours of course work, which can include zero to six credits of CE 768, and a thesis are required to fulfill degree requirements. For

the Master of Science in Civil Engineering (M.S.C.E.) degree Plan B, a minimum of 30 credit hours of graduate work are required, including at least 3 credit hours of independent work. The requirement for independent work may be satisfied by either taking an approved curriculum of courses which contain integral independent study components totaling a minimum of 3 credit hours, or by completing at least three credit hours of CE 790 and/or CE 791.

Students who wish to complete the independent work requirement by choosing from an approved curriculum of courses containing integral independent study components, shall present a plan of study which satisfies this requirement, and all other Graduate School requirements, to the Director of Graduate Studies for approval before the completion of 12 credit hours of graduate course work. Preferably this should occur no later than the end of the first semester of graduate residence. The requirement for all independent work must be satisfied under the direction of one faculty member (for students choosing a CE 790 and/or CE 791), or several faculty members (for students following an approved curriculum of courses), who will assign, monitor, and evaluate the student's work as part of the specific course. Written reports will usually represent the work product to be evaluated.

All students must pass a Final Examination as specified by the rules of the Graduate School. The contents and style of the examination, and the evaluation of the student's performance, are the responsibility of a Graduate Faculty committee appointed by the Dean of the Graduate School.

There is no language requirement for the M.S.C.E. degree in Civil Engineering.

Classics, MA

The M.A. program in Classics in the Department of Modern and Classical Languages, Literatures, and Cultures offers a degree with courses in Greek and Latin languages, literatures and cultures, as well as allied offerings in ancient and medieval history, ancient and medieval philosophy, archaeology, and Greek and Roman art. The mission of the M.A. Program is to train classicists who would become Latin teachers, or who, having obtained a solid knowledge of the classical languages, would pursue a Ph.D. degree in Classics, History, Philosophy, Divinity, or other related fields.

Greek studies in the M.A. Program have benefitted from in-depth exposure to Homeric Epic, and now offer close contact with faculty who specialize in Hellenistic Greek. A distinctive feature of the program is the study the Latin patrimony from antiquity until modern times. The Neo-Latin patrimony, in particular, immensely vast, multicultural and interdisciplinary in its very nature, provides infinite opportunities for study and research of the classical tradition in many fields and pertaining to many regions and populations. Also, students approach Latin as a living language of teaching, scholarly work, and communication (with the classical authors and among themselves). This fosters a personal connection to the language and is invaluable preparation for the classroom.

Options

- Option A-thesis requires completion of 30 semester credit hours of graduate work, six of which in CLA 768 (Residence Credit for Master's Degree), the defense of a Master's thesis, and an exit exam.
- Option B-non-thesis requires completion of 30 semester credit hours of graduate work and an exit exam.

Admission Requirements

The requirements for admission to the program in Classics are (a) an undergraduate grade point average of 3.0 or above on a 4.0 scale, (b) competence in one of the classical languages (Latin or Greek) and at least

basic competence in the other, and (c) a combined score of 297 (new scoring) / 1000 (old scoring) on any two of the three parts of the Graduate Record Examination (GRE). The Director of Graduate Studies may admit students with lower GRE scores or an undergraduate grade point average below 3.0 if, on the basis of a student's last two years of work, Classics grades, or general academic competence. An undergraduate major in Classics, Latin, or Greek is not required for admission, but the Program suggests that entering students should have completed at least six semesters of either Latin or Greek and four semesters of the other language. Students lacking sufficient preparation in one of the classical languages may be required to remedy such deficiencies by taking undergraduate courses.

The following documents should be submitted to the Graduate School's online application system by February 1, if the applicant is seeking financial aid, or before April 30 otherwise:

1. A one-page statement describing the applicant's reasons for seeking a Master's degree. If an applicant wants to be considered for financial aid, this is to be indicated in the opening sentence of the personal statement.
2. A list of Latin and Greek works read with approximate number of lines.
3. Transcripts.
4. GRE scores.
5. Three letters of reference (normally from former teachers).

Degree Requirements

1. The student must have a GPA of 3.0 or higher on a 4.0 scale for all graduate work.
2. The student must earn at least half of the semester credit hours in graduate courses numbered 600 or above.
3. The student must take at least two-thirds of her/his semester credit hours in regularly scheduled courses and seminars.
4. The student must take at least two-thirds of her/his semester credit hours in Classics.
5. A student's schedule of courses for each registration period, including any changes, must be approved by the DGS to be acceptable toward the fulfillment of degree requirements.
6. Latin prose composition, CLA 501, is required of all M.A. students.
7. A student must earn a minimum of nine credit hours in graduate courses in each of the classical languages and an additional six credit hours in graduate courses in either Greek or Latin or a combination of the two. When special circumstances arise, the DGS has the authority to revise this requirement.
8. All students must pass an exit exam before receiving the MA degree.
9. The student may transfer up to nine hours from a graduate program at another university or from post-baccalaureate graduate work at UK.
10. The student must have taken all course work within eight years of the semester in which the degree is awarded.

M.A. in Classics (track Latin) as a concurrent degree with M.A. in Teaching World Languages (MATWL)

Degree requirements: same as described as above, except for 7. Instead, students pursuing this track are required to take at least 8 graduate courses in Latin (24 credit hours). There is an exit requirement of a minimum of 4 semesters of Greek or equivalent (beginners and intermediate level).

Communication Sciences and Disorders, MSCSD

The Master of Science in Communication Sciences and Disorders is designed for students seeking entry-level professional preparation in speech-language pathology. Any student without an undergraduate major or equivalent in Communication Sciences and Disorders should apply as a prerequisite student to complete the prerequisite course work. The curriculum incorporates course work and intensive clinical practicum experiences designed to prepare students to meet state licensure and national certification requirements.

The Master of Science (M.S.) education program in speech-language pathology at the University of Kentucky is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association, 2200 Research Boulevard, #310, Rockville, MD 20850, 800-498-2017 or 301-296-5700.

Admission Requirements

Bachelor's degree with a minimum GPA of 3.0 out of a possible 4.0.

Degree Requirements

Core coursework (credit hours):

- CSD 621 AUGMENTATIVE AND ALTERNATIVE COMMUNICATION (2)
- CSD 647 LANGUAGE DISORDERS IN DEVELOPMENTALLY YOUNG INDIVIDUALS (3)
- CSD 648 LANGUAGE DISORDERS IN SCHOOL-AGE POPULATIONS (3)
- CSD 661 PHONOLOGICAL DEVELOPMENT AND DISORDERS (3)
- CSD 670 VOICE DISORDERS (2)
- *CSD 675 LOW INCIDENCE COM DISORDERS: SR (Subtitle required) (3)
- CSD 677 APHASIA AND RELATED DISORDERS (3)
- CSD 701 RESEARCH METHODS IN COMMUNICATION DISORDERS (3)
- CSD 710 COGNITIVE COMMUNICATION DISORDERS (2)
- *CSD 720 PROFESSIONAL ISSUES IN SPEECH LANGUAGE PATHOLOGY (3)
- CSD 744 ADULT SWALLOWING DISORDERS (3)
- CSD 745 PEDIATRIC FEEDING (2)
- CSD 746 MOTOR SPEECH DISORDERS (2)
- **Total Credit Hours - 34**

* CSD 675 and CSD 720 can be repeated three times

Coursework includes 34 didactic hours plus comprehensive examinations or an optional thesis.

Graduate students completing the thesis option also complete the following:

- CSD 748 MASTER'S THESIS RESEARCH (0)
- CSD 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE (1 - 6)

Graduate students wishing to meet American Speech-Language-Hearing Association certification requirements must also complete the following additional clinical orientation, clinical practicum, and clinical rotation experiences, plus 2 hours of graduate-level electives.

- CSD 654 CLINICAL ORIENTATION IN COMMUNICATION DISORDERS (3)
- CSD 657 CLINICAL PRACTICUM IN SPEECH-LANGUAGE PATHOLOGY (6)
- CSD 659 CLINICAL ROTATION IN SPEECH-LANGUAGE PATHOLOGY (21 - 30)
- **CSD 788 VARIABLE TOPICS IN COMMUNICATION DISORDERS: (SR) or Graduate credit elective (2)

**Graduate students are required to take two credits of CSD 788 Variable Topics as elective courses or any other related graduate level elective. Elective courses are offered on a rotating basis.

www.uky.edu/chs/communication-sciences-and-disorders

Communication, MA

The College of Communications and Information offers programs leading to the Master of Arts (either Plan A or Plan B) and Doctor of Philosophy degrees in Communication. The program offers special opportunities for students to apply communication theory and research across many contexts. Students may develop a program of study emphasizing (or combining) research areas such as health communication, information studies, instructional communication, media and mass communication, risk and crisis communication as well as strategic and organizational communication. The program is designed to serve the needs of students whose goals may include teaching and academic research, professional research, or communication careers in the media or other organizations.

Students pursuing work in health communication are encouraged to develop interdisciplinary programs involving the Department of Behavioral Science, the College of Medicine, as well as the Colleges of Dentistry, Health Sciences, Pharmacy, and Nursing. Communication also participates in interdisciplinary research programs with the Center for Prevention Research, the Sanders-Brown Center for Aging, and a variety of other health-related departments and institutes.

Admission Requirements

Students with an undergraduate degree from a fully accredited institution of higher learning and a grade point average of 3.0 on a 4.0 scale are admissible to the graduate program. Only students who have previously completed a master's degree may apply for admission into the doctoral program. Master's degree applicants are expected to have had at least twelve hours of appropriate undergraduate work in communication. Students with degrees in areas not directly related to communication are encouraged to apply, but they may be required to take course work without graduate credit. Should the Admissions Committee feel there is a deficiency in the applicant's studies, it may require enrollment in specific undergraduate courses. Courses taken to remove a deficiency cannot be counted towards the master's degree. In some cases, successful professional experience in a communication field will be considered in admitting students to the program.

Applicants must complete the University of Kentucky's Graduate School online-application and pay the application fee. Per the Graduate School's instruction, all applicants are required to submit official scores on

the Graduate Record Examination and official transcripts of all work taken at and beyond the college level. Students whose native language is not English must also submit an official score of at least 550 (or 213 on the computer version or 79 on the internet-based version) of the Test of English as a Foreign Language (TOEFL) or a minimum of 6.5 of the International English Language Testing Service (IELTS). Additionally, all applicants must submit to the College of Communications and Information Studies Graduate Admissions office: (1) transcripts of all work taken at the college level (unofficial or photocopies are acceptable), (2) at least three letters of recommendation focusing on their academic abilities accompanied by the supplied Reference Form and (3) the completed Application Essay indicating why they want to pursue a graduate degree with their reasons for applying to the program. No additional forms are required for financial assistance consideration-all applicants will be considered for funding at the time of review.

The Admissions and Financial Aid Committee will review only completed admission files after January 5 of each year. Applications must have their completed file on record with the Associate Dean for the Graduate Programs in Communication by the deadline in order to be considered for fall admission. New graduate students are permitted to enroll only during the fall semester. Exceptions will be made only because of circumstances beyond the control of the applicant. This deadline does not apply to: (1) UK undergraduate students in the College of Communications and Information Studies applying as University Scholars, who may be admitted for summer, fall or spring semesters, and (2) current students in the M.A. Program in Communication or the M.L.S., M.S.L.S or M.S. in ICT.

Degree Requirements

The M.A. program requires that every student become familiar with the important theories and concepts and the principal investigation methods used to expand knowledge of communication. All students are required to complete 30 credit hours to complete the Master of Arts degree. Students will be required to take 12 core credit hours consisting of Communication Theory (CI 651), and Communication Research Methods (CI 665), plus Statistics 570 (or its equivalent as determined by the Associate Dean for Graduate Studies). In addition, all students will be required to take either Interpersonal Communication (CI 631) or Mass Communication (CI 608 or CI 645). Students may choose from either the Plan A (Thesis option) or Plan B (non-thesis) options to complete their Masters degree requirements.

Plan A: Students choosing Plan A will take a minimum of 24 credit hours of actual course work, and write a thesis (Note: the six thesis credits must be taken under CI 768 - Residence Credit for the Master's degree). All students will also complete an oral examination in defense of the thesis. Students choosing Plan B, will take a minimum of 30 hours of course work, followed by a written and oral examination over the student's program.

At least 21 credit hours of the minimum requirements for the master's degree must be from offerings within the College of Communications and Information studies (both Plan A and Plan B). Plan A students may include six hours of CI 768 in the 21 hours, since the thesis involves work in an area of communication. Also, at least 15 credit hours of the minimum requirements must be in courses at the 600 and 700 levels (both Plan A and Plan B). Plan A students may include six hours of CI 768 in the 21 hours. No more than three credit yours in Plan A and 6 credit hours in Plan B (of the minimum requirements) may be earned in directed study, directed reading, or internship courses (e.g., CI 696 , CI 700 , CI 781 , and CI 790).

Students without previous course work in communication may be required to take undergraduate work that does not count toward graduate credit, as determined by the Admissions Committee. Individuals without significant practical experience are strongly encouraged to take CI 696 - Internship in Communication, which could include opportunities to work with external agencies and funded projects, both within and outside the university.

Community and Leadership Development, MSCLDE

The Master's of Science in Community and Leadership Development (CLD) at the University of Kentucky is a unique multidisciplinary program that prepares students for a broad range of careers including continuing on for a Ph.D. in several different disciplines (e.g., Agricultural Education, Agricultural Leadership and Development, Communications, Rural Sociology).

Our curriculum integrates a solid foundation in social science theory and research methods. Students are challenged to understand and then apply both theory and methods in diverse contexts as both independent and collaborative scholar/professionals.

Our graduate students are expected to be engaged professionals participating in scholarly organizations, social change initiatives, community development associations, or community media campaigns. They should demonstrate the depth and breadth of their knowledge and skills through applied service or research projects. Finally, students are expected to contribute their expertise as academic, organizational and community leaders.

Our program offers two options: the Master's of Science in CLD as well as the Master's of Science with Initial Certification (MIC) for Agricultural Education (Grade 5-12).

Either degree may be obtained on a thesis basis (Plan A) or a non-thesis basis (Plan B).

Admission Requirements

Applicants for the MS-CLD program without MIC Option

Candidates for the MS-CLD program must have a minimum undergraduate GPA of 2.75 and graduate GPA of 3.0 to be eligible for admission to the Graduate School. International students must take the TOEFL examination, with a minimum score of 550 (213 on the computer-based test) required by the Graduate School.

Applicants for the MIC Option

Candidates in the graduate initial certification program must apply for admission to the Graduate School and to the Teacher Education Program. They must have a minimum undergraduate GPA of 2.75 to be eligible for admission to the Graduate School. In addition, they must submit GRE scores with minimum scores of 150 on verbal reasoning, 143 on quantitative reasoning and 4.0 on analytic writing. If GRE scores fall below these levels, they must submit passing scores on PRAXIS Core Academic Skills for Educators (CASE) for the deficient portions. A minimum 156 score on the reading portion, a minimum 150 score on the mathematics portion, and a minimum 162 score on the writing portion are required.

Materials required for Application

- Cover Letter summarizing motivation for pursuing MS in CLD and whether the candidate is seeking department funding.
- Current Resume/CV

- Narrative statement of intent that includes a description of:
- Research interests and professional goals
- How the Master's program in CLD will support these goals, with a specific discussion of how candidate interests and experiences align with faculty expertise or program strengths
- Other insights into relevant experience or perspectives for demonstrating the candidate's interest in and qualifications for the CLD program
- Undergraduate/graduate transcripts
- 3 Recommendation letters (Only 1 can be written by a CLD faculty member)
- TOEFL/IELTS scores (International applicants only)
- GRE Score (MIC Option only)

Degree Requirements

30 credit hours required for a MS-CLD or MS-CLD MIC Option. Core requirements for both options are outlined below. Students must have the cumulative GPA of 3.0 or above in order to sit for the final examination. Incoming students are informed of the graduate-school and program-specific academic policies at the orientation held before classes begin each fall. Information is also on the CLD website.

For All MS-CLD Students - Core Requirements

Course No	Course Title	Hrs.	When to take
CLD 686	Research Design	3	Year 1 Fall
CLD 684	Statistical Analysis <u>or</u> any approved method course(s)	3	Year 1 or Year 2
CLD 630	Individual & Group Dynamics	3	Year 1 or 2 Fall
CLD 610 <u>or</u> CLD 670	Experiential Education <u>or</u> Community Engagement	3	Year 1 or Year 2
CLD 671 <u>or</u> CLD 685 <u>or</u> CLD 675 <u>or</u> CLD 660	Advanced Methods of Teaching <u>or</u> Advanced Community Development Theory & Practice <u>or</u> Theoretical Foundations of Communication and Community <u>or</u> Advanced Leadership Theory & Practice	3	Year 1 or Year 2
CLD 768 <u>or</u>	Master's Thesis Research in CLD <u>or</u>	3	Year 2 Spring

CLD 758	Creative Component in CLD		
TOTAL		18	

Students must complete a total of at least **12 credit hours** in one Enrichment Area, defined in consultation with their Advisory Committee. Sample of Enrichment Areas are:

- Non-formal and Formal Education
- Agricultural Education and other Agricultural areas of interest (with a social science emphasis - e.g., horticulture's role in urban gardening)
- Community Development
- Leadership Development
- Rural Studies
- Community Communications

For MIC Students MS-CLD - Core Requirements

Course No	Course Title	Hrs.	When to take
CLD 686	Research Design	3	Year 1 Fall
CLD 684	Statistical Analysis <u>or</u> any approved method course(s)	3	Year 1 or Year 2
CLD 630	Individual & Group Dynamics	3	Year 1 or 2 Fall
CLD 671	Advanced Methods of Teaching CTE	3	
EDP 600 / FAM 654	Life Span Human Development and Behavior/	3	
CLD 610	Experiential Education	3	Year 1 or 2 Fall
CLD 758	Creative Component in CLD	3	
TOTAL		21	

For MIC Students, certification and degree completion are two separate issues. Candidates must complete additional hours beyond the core. Although part of the certification coursework can be used toward a "General Specialty" in Agricultural Education, some required certification courses are strictly undergraduate level and will not count toward the M.S. degree. In particular, coursework in the 400 level with the "G" designation and 500-level and above courses can be used toward degree completion. Candidates' previous coursework in the content areas will be evaluated to determine additional work candidates may need to have adequate preparation in agricultural content knowledge.

Computer Engineering, MSCOE

The MS and PhD programs in Computer Engineering (CPE) are offered in the College of Engineering jointly by the departments of Computer Science and Electrical and Computer Engineering. The field of computer engineering integrates expertise from both electrical engineering and computer science, emphasizing an understanding of computer architecture, hardware/software interface, and the integration of computers into products and systems at a larger scale. It involves developing technical skills in traditional areas of electrical engineering, such as analog and digital circuit design and communications systems, as well as in areas related to computer science, such as software development and operating systems. As might be expected in such a broad field, there are a great many specialty areas as well, which change regularly to match the needs of the job market. The programs support the College of Engineering's mission "to provide education, research, and service in a scholarly environment in a way that prepares our students for successful professional careers, addresses the changing needs of our other constituents, and responds to the technological challenges facing the Commonwealth and the Nation."

Admission Requirements

- CV (Optional)
- Personal Statement
- Transcript showing a Bachelor's degree with a minimum GPA of 3.0 in an ABET or CSAB accredited undergraduate program in Computer Engineering, Computer Science, or Electrical Engineering.
- Background in discrete math, programming, data structures, circuits, digital logic, and computer architecture.
- Assistantship Application (Optional)
- Official GRE scores
- Three letters of recommendation
- Application Deadlines:
 - Fall: July 15 (domestic applicants), March 15 (international applicants)
 - Spring: November 30 (domestic applicants), August 15 (international applicants)

Degree Requirements

Plan A: 30 credits, including 6 credits of thesis research as CS 612, plus a Master's thesis

Plan B: 30 credits, plus a Master's project

Both the MS and the PhD program require students to take nine credits of core coursework, to include 3 of the following courses:

- CS 570 MODERN OPERATING SYSTEMS

- EE 685 DIGITAL COMPUTER STRUCTURE
- CS 541 COMPILER DESIGN
- EE 580 EMBEDDED SYSTEM DESIGN

Students can focus their curriculum on a variety of areas, including cybersecurity, VLSI, computer architecture, quantum computing, advanced compiler techniques, and distributed operating systems. Any course in the CS and ECE departments may be used to complete the credit-hour requirements, and courses outside these departments may also apply, subject to DGS approval. Students must maintain a 3.0 or better GPA across all CS and ECE courses, and they must have an overall GPA of 3.0 or better to complete the MS degree.

Incoming students are informed of the graduate-school and program-specific academic policies at the orientation held before classes begin each fall. A handbook is also on the CS and ECE websites.

Computer Science, MS

The Department of Computer Science offers the program of study leading to the Master of Science in Computer Science degree. The M.S. program graduates are expected to demonstrate proficiency in the fundamental areas of computer science. Admission to the program is highly competitive and based upon academic record, GRE scores, and letters of recommendation, etc. It is strongly suggested that applicants present evidence of competence in computer science as well as mathematical maturity.

Students can either take option A (thesis option) or option B (non-thesis option). Details can be found in the section of Degree Requirements.

Admission Requirements

- Transcript showing a bachelor's degree (4 years or equivalent)
- GRE (waived for Fall 2021 and Spring 2022)
- TOEFL score (for international students)
- Three letters of recommendation
- Statement of purpose
- Additional requirements:
 - A GPA of at least 3.0 on a 4.0 scale
 - Evidence of Computer Science background. Students from a non-CS major may be required to take preparatory CS courses before they can be admitted into the program.

Degree Requirements

To receive an MS, the student must finish either option A (thesis option) or option B (non-thesis option).

- Option A requires at least 24 credit hours of regular coursework in CS and up to six credits of CS 768 Residence Credit for Master's Degree. The total number of credits required is 30. MS students under option A must prepare a thesis.
- Option B requires 30 credit hours and a project. The 30 hours may include CS 610. MS students under option B must complete the project.

In either option, students may take up to 6 credits of CS 612. For either option, at least half of the credit hours must be in higher than 500-level courses (excluding CS 768 and CS 680). Courses from other departments require a prior DGS approval.

All courses other than CS 768 for option A must have regular letter grades, that is, no pass/fail, and the overall GPA in these classes must be 3.0 or higher.

MS candidates must pass four core courses, two from each of the following two groups:

1. CS 505 (Databases), CS 541 (Compilers), CS 570 (Systems), CS 571 (Networks), and
2. CS 515 (Algorithms), CS 537 (Numerical), CS 575 (Theory).

The final grades in each course must be B or higher. In exceptional cases, when courses needed to complete the requirement are not offered, the DGS may approve other courses as equivalent replacements.

In addition, the graduate school policies manual specifies additional requirements and procedures. It can be found on the graduate school website.

Incoming students are informed of the graduate-school and program-specific academic policies at the orientation held before classes begin each fall. A handbook is also on the CS website.

Counselor Education, MAC

Graduates of this program receive a Master of Arts in Counseling (M.A.C) in Counselor Education with a specialty in either Clinical Mental Health Counseling or Rehabilitation Counseling. Our program is approved by the Kentucky Council on Higher Education and is the only Master's program in Rehabilitation Counseling in the Commonwealth. We are also proud to have nationally recognized faculty within a program that has been consistently ranked in the top ten rehabilitation counseling programs in the country by U.S. News and World Report.

Delivery Method: Online (No residency requirement)

Admission Requirements

- An undergraduate G.P.A. of 2.75 or higher, or a graduate GPA of at least 3.00
- CV/Resume
- Official transcripts

- A personal interview with program faculty
- Three references indicating appropriateness of student for the program
- A written statement indicating interest in and goals for the degree program
- GRE scores are not required

Degree Requirements

Course Work

Both specialty areas in Rehabilitation Counseling and Clinical Mental Health Counseling require the completion of 60-credit hours of graduate work in the appropriate specialty area. Both specialties require 43 hours from the core curriculum and 17 credit hours of electives specialization courses. Students in the Rehabilitation Counseling specialty area may complete the Certified Rehabilitation Counselor Examination in lieu of a program final. Any student who does not take a national certifying exam will be required to take a 100-question multiple choice test that will cover the same content.

Field Work

Practicum (3 credit hours): a supervised practicum experience of 200 hours

Internship (9 credit hours): a supervised internship experience of 600 hours

CED 710 must be successfully completed to advance to CED 730 (NOTE: CED 710 and CED 730 are taught over 12 weeks in the summer semester)

Certification in Rehabilitation Counseling

Students interested in achieving the Certified Rehabilitation Counselor (CRC) credential should visit the Commission on Rehabilitation Counseling Certification website to learn more and keep up-to-date with pertinent deadlines.

Professional Counselor Licensure

Licensing in professional counseling is a state-specific credential. UK provides information about licensure in various states through UK Online. Students should also visit their state's licensure board website to ensure that our curriculum will meet the requirements for licensure.

Creative Writing, MFA

The two-year MFA program in Creative Writing in the University of Kentucky English department provides a strong basis in mastering the tools of imaginative writing, from poetry to fiction to creative nonfiction. Situated in historic Lexington and surrounded by the awesomeness of thoroughbred horse farms and bourbon distilleries, the University enjoys a rich literary heritage dating back to 1947, when Pulitzer Prize-winning novelist A.B. Guthrie first offered courses in fiction. Graduates of the English Department include Gurney Norman, Frank X Walker, Bobbie Ann Mason, Rebecca Gayle Howell, Wendell

Berry, Kayla Rae Whitaker, Maurice Manning, Bianca Spriggs, Patrick O'Keefe, Holly Goddard Jones, and James Baker Hall. The MFA Program in Creative Writing builds upon that rich history by offering students access to a diverse faculty in fiction, poetry, and creative non-fiction. With rare exceptions, all MFA students are funded through TAships.

MFA candidates take both workshop and craft courses during their tenure. In addition, students can draw on the expertise of a faculty of 41 professors, including a distinguished roster of ten professors of creative writing.

Admission Requirements

Students eligible for the MA program must have:

- A UGPA of at least 2.75 on a 4.0 scale. Unofficial transcripts from all attended institutions are required. If the student is admitted and accepts, the graduate school will require all official transcripts. University of Kentucky graduates should note their degrees on the application but are not required to submit transcripts.
- Three letters of recommendation, preferably from faculty familiar with the student's strengths and interests.
- A statement of purpose of no more than two pages that outlines what interests the student has in pursuing the MFA.
- A writing sample of approximately 20 pages that demonstrates the student's strengths as a writer.
- A CV or resume.
- As of fall 2021, neither the general GRE nor the subject test in English is a required component of a student's application.

Degree Requirements

MFA candidates must:

- Take 30 hours of coursework, including:
 - 12 hours of ENG 607 GRADUATE WRITING WORKSHOP (SUBTITLE REQUIRED)
 - 6 hours of ENG 608 CRAFT OF WRITING: (SUBTITLE REQUIRED)
 - 3 hours of any English graduate course at the 600 or 700 level
 - 3+ hours of the student's choice of any additional course at the 600 or 700 level or (outside the English department) at the 400G level or above.
 - Up to 6 hours of ENG 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE or an additional 6 hours of graduate coursework
- Write a thesis consisting of a substantial body of original writing. Both are required for successful completion of the MFA degree. The thesis should be over 120 pages of fiction (short stories, novella or novel) or non-fiction, or a collection of approximately 48 poems.

- Form a committee of three faculty members chosen by the student and approved by the Director of Creative Writing.
- Defend the thesis in a 90-minute oral examination.

Curatorial Studies, MFA

The Master of Fine Arts in Curatorial Studies at the School of Art & Visual Studies (SA/VS) prepares students for careers in the expanding field of curatorial practice. As the first three-year hybrid (online and residency) MFA in Curatorial Studies in the United States, this practice-based terminal degree uniquely equips graduates for careers in a variety of arts organizations, as well as teaching positions at the college level. Through internships, online courses, and residential seminars, students gain a solid foundation in the history and theory of curatorial practice, as well as practical experience in exhibition development, design, and implementation. With courses in art history, art studio, art education, and arts administration, among others, it offers a dynamic interdisciplinary degree that prepares graduates to be highly competitive in a diverse job market. Courses will be selected in consultation with the Graduate Advisor to take full advantage of the multiple approaches, expertise, and insights of the faculty

Admission Requirements

Applicants from a range of educational backgrounds may earn a MFA in Curatorial Studies. However, those without an undergraduate degree in Art History, Studio Art, Art Education, or Arts Administration should consult with the curatorial studies Graduate Advisor before applying. The program attracts a highly competitive pool of national and international applicants-many of whom already have some curatorial experience. All admissions will be reviewed by the program's Graduate Advisor along with a multidisciplinary committee comprised of faculty from art education, art history, and art studio. The requirements otherwise conform to UK general requirements for Graduate School admission.

Application Procedures

The Graduate School, which is the administrative unit for all graduate students, and the Curatorial Studies graduate program, which is responsible for the academic curriculum, require different application materials. Application materials for admission to the Graduate School include:

- Application form
- Copies of transcripts from all higher education institutions previously attended, which should be uploaded on the appropriate location of the online application. Domestic students are to self-report GPAs for each institution attended. (Tip: Convert transcripts on colored paper to white with black ink so as not to exceed the megabyte limitation on the online form.)
- TOEFL scores and/or IELTS scores if an international student.

Application materials for the Curatorial Studies graduate program are also to be submitted online on the graduate admissions application and include:

- Brief résumé.

- A statement of purpose
- Sample of research writing (such as an undergraduate research paper or exhibition catalogue essay) or a digital portfolio (if the candidate holds a BA, BFA, or MFA degree in art studio or art education). If an applicant has prior work experience in the field, they may also include documentation of curatorial work along with their writing sample (installation shots, press releases, etc.). Be careful not to exceed the megabyte limitation on the online form.
- Contact information in the form of email addresses for three recommenders who will be notified to submit their recommendations electronically to the online system.

Application Deadlines January 1 - for all applicants, including those requesting a teaching assistantship. Students who want an assistantship should send a separate letter that indicates their interest in being considered either by e-mail attachment or in hardcopy form to the Graduate Advisor in Art History & Visual Studies, School of Art & Visual Studies, 236 Bolivar Street, University of Kentucky, Lexington, KY 40506-0090.

Degree Requirements

The MFA degree will be awarded on the completion of 60 credit hours of graduate course work. Of these, 42 credit hours are "program core" required courses (18 hours of which are guided internships). The remaining 18 credit hours are electives (9 hours of "guided electives" in Arts Administration, and 9 "free electives" that relate to the student's specific area of interest within curatorial studies).

Requirements

Program Core - Students are required to take the following courses (at number of credit hours specified):

- ART 504 CURATORIAL PRACTICE: HISTORY, THEORY, PRACTICE (3 hours)
- ART 604 CURATORIAL PRACTICE: CURATORIAL PROJECTS (3 hours)
- ART 768 THESIS PREPARATION AND PRESENTATION (6 hours)
- ART 794 INTERNSHIP: BOLIVAR GALLERY (3 hours)
- ART 795 INTERNSHIP: UK ART MUSEUM (3 hours)
- ART 796 INTERNSHIP: COMMUNITY PARTNERS (6 hours)
- ART 797 INTERNSHIP: ARTS ORGANIZATION (6 hours)
- A-H 504/A-H 604 PRACTICAL PROBLEMS IN ART HISTORY: (SR) (3 hours)
- A-H 650 ADVANCED CONTEMPORARY ART HISTORY 3 hours)
- A-E 550 COMMUNITY ART EDUCATION/A-E 560 MUSEUM EDUCATION (3 hours)
- A-S 793 GRADUATE STUDIO SEMINAR (3 hours)

Guided Electives - Students are required to 9 credit hours of electives in the Department of Arts Administration, choosing from the following:

- AAD 660 SOCIAL AND CULTURAL ENTREPRENEURIALISM (3 hours)
- AAD 650 THE ARTS AND THE LAW (3 hours)
- AAD 640 PRINCIPLES OF FUNDRAISING (3 hours)
- AAD 630 MARKETING RESEARCH AND PLANNING FOR ARTS ORGANIZATIONS (3 hours)
- AAD 620 MANAGEMENT AND LEADERSHIP IN THE ARTS (3 hours)
- AAD 625 FINANCIAL MGMT FOR ARTS ORGANIZATIONS (3 hours)
- AAD 600 ARTS ADMINISTRATION TECHNOLOGIES (3 hours)
- AAD 565 COMMUNITY ENGAGEMENT IN THE ARTS (3 hours)
- AAD 542 GRANT WRITING FOR NONPROFIT ORGANIZATIONS (3 hours)
- AAD 500 THE ARTS AND ARTISTS IN SOCIETY (3 hours)

Free Electives - Students are required to take 9 credit hours in electives in related areas such as Anthropology, Arts Administration, Art Education, Art History, Art Studio, Film Studies, Historic Preservation, History, Literature, Philosophy, Women's Studies, etc. as determined by consultation with the Graduate Advisor.

Other Requirements

MFA Thesis - The degree requires the successful completion of a final exhibition accompanied by a written document. Students will take 6 hours ART 768 in preparation for curating their thesis exhibition (see "program core"). Additional hours of thesis research may be taken if necessary (ART 748 INDEPENDENT THESIS RESEARCH at 0 hours).

Data Science, MS

The Master of Science with a major in Data Science degree is a two-year interdisciplinary program taught by faculty from three departments: Computer Science, Biostatistics, and the Institute of Biomedical Informatics. The curriculum aims to prepare the future data science professional with a critical skillset that includes database management, statistical and machine learning techniques and big data analytics. The program includes a required capstone project, in which students analyze real-life datasets in a selected application domain in collaboration with domain experts and other data scientists.

The Master of Science with a major in Data Science degree is available with two concentrations:

- Biomedical Informatics

- Software and Systems for Data Science

Admission Requirements

Admission to the program requires a minimum undergraduate GPA of 3.0 on a 4.0 scale. Students must have successfully completed a course in calculus (comparable to the UK course MA 113) and two courses in programming (comparable to the UK courses CS 115 and CS 215). Students will preferably have also successfully completed a course on linear algebra (such as the UK course MA 322) and will have experience using several programming languages. Exceptions to these requirements may be made by the Director of Graduate Studies if other persuasive evidence indicating the student's potential of success is available. Such evidence could include high scores on standardized tests (e.g., GRE); demonstrated ability in computer programming; or strong performance in courses in the sciences, engineering, mathematics, statistics, or other quantitative disciplines.

Degree Requirements

The program requires 33 credit hours which are divided into Major (27 hours) and Concentration (6 hours) Requirements.

Major Requirement (27 credit hours)

1. Core (15 credit hours)
 - DS 501 FUNDAMENTALS OF DATA SCIENCE (3 credit hours)
 - BST 600 INTRODUCTION TO BIOSTATISTICAL METHODS (3 credit hours)
 - CPH 630 BIOSTATISTICS II (3 credits hours)
 - DS 710 RESEARCH SEMINAR IN DATA SCIENCE (1 credit hour x 3 times)
 - DS 711 MASTERS PROJECT IN DATA SCIENCE (3 credit hours)
2. Guided Electives in CS (3 credit hours) (One of the three required):
 - CS 405G INTRODUCTION TO DATABASE SYSTEMS
 - CS 460G MACHINE LEARNING
 - CS 626 LARGE SCALE DATA SCIENCE
3. Free Electives (9 credit hours)
 - All electives must be approved by the DGS. At least two free electives must be at the 600 or 700 level. Moreover, free electives must include at least two courses (6 credits) with a strong data science component in the subject area of the student's project.

Concentration Requirement (6 credit hours)

There are currently two concentrations from which the student is required to select.

Concentration in Biomedical Informatics

1. Concentration Core (3 credit hours)
 - BMI 633 INTRODUCTION TO BIOINFORMATICS
2. Concentration Electives (3 credit hours) (One of the three required)

- BMI 730 PRINCIPLES OF CLINICAL INFORMATICS
- BMI 733 BIOMEDICAL NATURAL LANGUAGE PROCESSING
- BMI 734 INTRODUCTION TO BIOMEDICAL IMAGE ANALYSIS

Concentration in Software and Systems for Data Science

1. Concentration Core (6 credit hours)
 - CS 460G MACHINE LEARNING or CS 628 DATA MINING
 - CS 626 LARGE SCALE DATA SCIENCE
 - CS 505 INTERMEDIATE TOPICS IN DATABASE SYSTEMS only if CS 626 LARGE SCALE DATA SCIENCE is taken as a Guided Elective

Program Website: <https://www.engr.uky.edu/data-science>

Dentistry, MS

The Master of Science degree programs in the Orofacial Pain, Orthodontics, and Periodontology graduate specialty programs are designed to produce graduates who are clinically adept, well versed in research and the biologic basis for dentistry, and prepared to function at a high level of accomplishment in both clinical practice and academic dentistry. These interdisciplinary programs involve dental school clinical and graduate program faculty as well as faculty from other programs throughout the University of Kentucky. All students receive teaching experience in anticipation of full- or part-time academic involvement after graduation.

Successful completion of the Master of Science degree is prerequisite before the awarding of a training certificate in the Orthodontics and Periodontology programs. The Masters of Science degree is available in two options:

- Plan A, minimum of 30 credits, plus a Master's Thesis and successful thesis defense
- Plan B, minimum of 30 credits, successful research project results defense, plus a manuscript completion for a peer-reviewed journal based on research project results.

Admission Requirements

- Applicants to any of the Master of Science degree programs must have a D.M.D./D.D.S. degree from an accredited United States or Canadian dental school or equivalent.
- Applicants who are not native English speakers must score at least 550 (paper,) 213 (computer) or 79 (internet) on the Test of English as a Foreign Language (TOEFL) or 6.5 on the International English Language Testing System (IELTS).
- The Graduate School requires an overall grade point average of 3.00 on all graduate work; individual programs may have higher requirements.
- The individual degree programs may have different admission requirements; please consult the individual degree program website:

- Orofacial Pain: <https://dentistry.uky.edu/orofacial-pain-applications-and-admissions>
- Orthodontics: <https://dentistry.uky.edu/orthodontics-applications-and-admissions>
- Periodontology: <https://dentistry.uky.edu/periodontology-applications-and-admissions>

Program Requirements

Requirements To Be Added

Digital Mapping, MS

The Department of Geography at the University of Kentucky offers two completely online programs in Digital Mapping: an 11-credit Graduate Certificate and a 30-credit Master of Science (Plan B, nonthesis).

The Digital Mapping graduate programs at the University of Kentucky offer a challenging, intensive, digital mapping curriculum that emphasizes the acquisition of technical skills - coding, GIS, web development - while also preparing students to critically address the complexity of today's information ecosystem.

These Graduate Certificate and Master of Science degree programs in digital mapping were designed with all levels of experience in mind. Whether students are new to open-source software or an experienced GIS user, they will benefit from a truly unparalleled online learning experience developed by internationally renowned faculty in a top-ranked geography department.

Students will develop the technical skills and design fluency you need to make highly sophisticated web maps that are also elegant and impactful. Perhaps even more importantly, they will learn to think critically about the social dimensions of the maps they make and the data from which they make them. Maps, after all, are powerful things: they shape what we see and what we don't, with serious implications for how we come to know the world.

Admission Requirements

Prospective applicants must meet the general requirements of the Graduate School regarding minimum undergraduate grade point average. The applicant will be required to submit official transcripts for all undergraduate work. Required supplemental materials include a personal statement; CV and/or resume; mapping portfolio; examples of code/design; and three letters of recommendation. GRE scores are not required for application. New admission to the Master of Science in Digital Mapping occurs twice annually, during the Spring and Fall semesters. One additional entry point is available in the Summer for those students that have completed the requirements for the Graduate Certificate in Digital Mapping. Applications are accepted until 2 weeks before the term start using custom dates detailed on the Programs page: <https://newmapsplus.as.uky.edu/programs>

Degree Requirements

After applying and being accepted to the MS in Digital Mapping, the student must complete the following 30 hours of coursework:

- MAP 671 INTRODUCTION TO NEW MAPPING (3)
- MAP 672 PROGRAMMING FOR WEB MAPPING (4)
- MAP 673 DESIGN FOR INTERACTIVE WEB MAPPING (4)
- MAP 674 SPATIAL DATA ANALYSIS AND VISUALIZATION (4)
- MAP 675 COLLABORATIVE GEOVIZUALIZATION (4)
- MAP 701 HISTORY OF CRITICAL CARTOGRAPHY (2)
- MAP 719 SOCIAL IMPACTS OF NEW MAPPING (3)
- MAP 698 FINAL PROJECT PREPARATION (3)
- MAP 699 FINAL PROJECT IMPLEMENTATION (3)
- **TOTAL CREDIT HOURS FOR MS DEGREE 30**

Diplomacy and International Commerce, MA

The Patterson School of Diplomacy and International Commerce offers a Master of Arts program designed to prepare students academically, professionally, and personally for careers in international affairs. Formal academic coursework is combined with experiential learning via a rich variety of co-curricular activities. The Patterson School M.A. is excellent preparation for service with government agencies such as the U.S. Departments of State, Treasury, or Commerce, and in the intelligence community, careers in international organizations or non-governmental organizations or in the private sector. The Patterson School faculty is a mix of academics and former foreign-affairs practitioners who spent decades in government service prior to starting their teaching careers. Students come to the Patterson School with diverse undergraduate degrees, but most are well-prepared in political science, economics and foreign languages.

Our flexible programs total 30 credit hours and can be completed in just three semesters. Each student enrolls in core curriculum courses and seminars taught by regular Patterson School faculty in one of four concentrations: diplomacy, development/international organizations, security/intelligence, and international commerce. Beyond this core, students can work with their academic advisors to craft interdisciplinary courses of study tailored to their unique desires that draw widely upon other University of Kentucky graduate departments. Patterson School students have developed individual degree plans that include classes in agricultural economics, anthropology, finance, marketing, management, foreign languages, history, political science, communications, sociology, law, geography, public health, and more. Additionally, students can pursue certificate programs in Global Health or International Education. This flexibility in curriculum is pivotal to the Patterson School concept.

Admission Requirements

Admission to the Patterson School is highly selective. The deadline for applications is February 1st. The online application process begins at the Patterson School website <http://www.uky.edu/PattersonSchool/>. Each applicant is required to submit GRE scores, college transcripts, a resume, a brief statement explaining his/her interest in the Patterson School program in terms of career goals, and two to four letters of reference. International students are also required to take the Test of English as a Foreign Language or the International English Language Testing System.

Degree Requirements

All students begin the program as a group in the fall semester. Even though three semesters are required to complete the required coursework, some students elect to remain a fourth semester in order to obtain more breadth and/or depth in their desired fields of professional preparation, or additional language training. Entering students are expected to have a strong background in at least one foreign language but many students undertake further language study during the program (although this study does not earn credit for the M.A. degree). Students are strongly encouraged to complete a career-related internship in the United States or abroad, typically during the summer between their second and third semesters.

Foreign Language

Cornerstone & Methodology

All students must complete the following two courses in the Fall semester of their first year of the program:

- DIP 700 DYNAMICS OF DIPLOMACY (3)
- DIP 777 RESEARCH PROBLEMS IN INTERNATIONAL RELATIONS (3)

One of the following Concentrations:

Diplomacy

Complete the following course:

- DIP 600 SPECIAL TOPICS

International Security & Intelligence

Complete two of the following courses:

- DIP 726 INTRODUCTION TO INTELLIGENCE (3)
- DIP 742 NATIONAL SECURITY POLICY (3)
- DIP 750 DEFENSE STATECRAFT (3)

International Commerce

Complete the Following Course:

- DIP 720 ECONOMIC STATECRAFT (3)

International Organizations & Development

Complete two of the following courses:

- DIP 600 SPECIAL TOPICS: Transnational Orgs & Processes (3)
- DIP 600 SPECIAL TOPICS: Economics of Development (3)

Total Credit Hours: 30

All students must successfully pass written and oral comprehensive examinations before being awarded their master's degree. These exams require students to draw upon the full measure of academic and professional activities they have experienced in the program, testing their universal foreign affairs knowledge as well as their unique specialized skills. During their last semester, most students join informal study groups to prepare for this critical final step. Each student has only two chances to pass the comprehensive examinations. Students are also required to maintain a 3.0 grade point average to graduate.

Patterson School students are able to take advantage of a variety of joint degree opportunities to combine the study of international affairs with other disciplines, such as law or business. Students must meet the admission requirements of the separate programs independently and commit upfront to pursue both degrees. The Patterson School currently maintains concurrent degree programs in Law, Business, Economics, and Modern Languages. While many Patterson School graduates have later obtained doctoral degrees, this M.A. program is specifically designed to prepare students for non-academic careers in international affairs. Students who contemplate working immediately on a Ph.D. are generally advised to pursue that goal elsewhere.

J.D./M.A. in Diplomacy -- The University of Kentucky Law School joins the Patterson School in offering a dual degree program in law and diplomacy that permits students to acquire both degrees in four years' time. Professionals trained in both law and international affairs are well positioned to seek positions in the private, public and non-profit spheres. Interested students must apply separately to each program, noting their desire to pursue the dual degree. For further information, contact the Director of Graduate Studies in the Patterson School of Diplomacy and International Commerce and the College of Law.

M.B.A./M.A. in Diplomacy -- The Patterson School of Diplomacy and International Commerce and the College of Business and Economics offer the opportunity to obtain the Master of Business Administration (M.B.A.) and the MA in Diplomacy degrees in a dual degree program that requires less time than would be required to achieve both degrees separately. The dual program of studies is designed to train students for international business careers or careers in government service that emphasize international business relations. Interested students must apply separately to each program, noting their desire to pursue the dual degree.

M.S. in Economics/M.A. in Diplomacy --The Department of Economics of the Gatton College of Business and Economics combines with the Patterson School of Diplomacy to offer a dual degree program in economics and diplomacy that allows students to obtain both degrees in less time than would be required to achieve both degrees separately. The dual program of studies is designed to train students to become international economic analysts serving in government or international research institutions, or economic specialists headed for government departments (Treasury, State, U.S. Trade Representative) or intergovernmental organizations. Interested students must apply separately to each program, noting their desire to pursue the dual degree.

M.A. in a Modern Language/M.A. in Diplomacy --The Department of Modern and Classical Languages, Literatures, and Cultures in cooperation with the Patterson School of Diplomacy and International Commerce offers a dual degree program that allows students to obtain both degrees in less time than would be required to achieve both degrees separately. Interested students must apply separately to each program, noting their desire to pursue the dual degree.

Economics, MS

The M.S. in Economics is designed to introduce students to graduate-level study in economics. The M.S. in Economics provides a strong foundation in microeconomics, macroeconomics, and econometrics, in addition to allowing students to pursue some electives in their fields of interest.

More information about the MS in Economics is available at

<https://gatton.uky.edu/programs/masters/master-science-economics>

Admission Requirements

Applications are submitted online through the Graduate School, and must include:

1. A resumé
2. A one-to-two page personal essay about why you want to attend graduate school in economics
3. Two or three confidential letters of recommendation
4. Unofficial copies of your GRE scores, transcript, and TOEFL score (if required).

The recommended minimum prerequisite undergraduate preparation includes 6 hours of intermediate theory, 6 hours of statistics, and 6 hours of calculus.

Degree Requirements

1. A minimum of 30 hours of graduate credit courses.
 - a. The student must satisfactorily complete the following courses: ECO 590 INTRODUCTION TO QUANTITATIVE ECONOMICS I, ECO 601 ADVANCED MICROECONOMIC THEORY, ECO 602 MACROECONOMIC THEORY, ECO 603 RESEARCH METHODS AND PROCEDURES IN ECONOMICS, ECO 703 INTRODUCTION TO ECONOMETRICS I.
 - b. The student must also satisfactorily complete either: ECO 701 NEOCLASSICAL MICROECONOMIC THEORY or ECO 702 ADVANCED MACROECONOMIC THEORY and, one course in an elective area of the Ph.D. program.
 - c. Courses taken outside of the Department of Economics must be approved by the Director of Graduate Studies to count toward the 30 hour requirement.
2. Successful completion of a final examination.

3. Minimum average of grade B (a GPA of 3.0) in all courses attempted for graduate credit after being admitted to Graduate School. Students obtaining six quality points below a B average will be dropped by the department.

Education - Instructional Systems Design, MSEDU

The Instructional Systems Design (ISD) area offers an online degree program designed for individuals who wish to develop their knowledge and skills in planning and designing instruction. Persons choosing this area are frequently preparing for instructional design responsibilities in business and industry, government, education, and various training organizations. This program does not require or lead to initial teacher certification.

- Plan A: 30 credit hours, with a thesis requirement
- Plan B: 36 credit hours, without a thesis requirement

Admission Requirements

Applicants are evaluated holistically, with attention paid to prior educational achievement and professional experience. In addition to the admission requirements set by the Graduate School, departmental requirements include a statement of professional goals, an autobiographical sketch, professional writing samples, and three letters of professional reference. Interviews are frequently requested. The GRE is not required for admission to the ISD program. All materials may be submitted through The Graduate School's online application process.

Degree Requirements

- Specific programs are planned with a faculty advisor subject to the approval of the Director of Graduate Studies. All students are required to complete:
 - An 18-hour common core including nine semester hours in the Department of Curriculum and Instruction.
 - At least 6 hours must be taken outside the College of Education.
- The Plan A (thesis) option includes 6 credit hours of electives and 6 credit hours of thesis credit.
- An additional 12 credit hours of electives are required for the Plan B (non-thesis) option.
- Plan A students must successfully defend a thesis; Plan B students must successfully complete a final exam.
- Students in Instructional Systems Design may elect to complete a graduate certificate, such as the departmental certificate in Distance Education, as part of their coursework.

<https://education.uky.edu/edc/isd/ms/>

Education - Literacy, MAEDU

Completion of the Master of Arts in Education with Literacy specialization fulfills the academic requirements for teacher certification as a P-12 literacy specialist within the Commonwealth of Kentucky. In addition to certification as a literacy specialist, successful degree completion can lead to rank change (Rank I or Rank II) within Kentucky's classification of teachers. The Literacy Specialist Endorsement P-12 with Master of Arts in Education program offers a variety of graduate-level courses, field experiences in local schools, and research opportunities with faculty. The combination of these classroom and experiential activities result in graduates who are prepared for the literacy challenges they may face in educational and community contexts. The program is delivered in a variety of formats including via distance learning, hybrid, and face-to-face courses.

Admission Requirements

Applicants are evaluated holistically, with attention paid to prior educational achievement and professional experience. In addition to the admission requirements set by the Graduate School, departmental requirements include a statement of professional goals, an autobiographical sketch, professional writing samples, and three letters of professional reference. Interviews are frequently requested. Applicants wishing to obtain teacher certification as a literacy specialist must already possess initial teacher certification. All materials may be submitted through The Graduate School's online application process.

Degree Requirements

The master's degree program requires 33 credit hours of coursework. Students may elect to complete a Plan A (thesis) or Plan B (non-thesis) option within the program. Curriculum plans for both Plan A and Plan B options may be found at this link: <https://education.uky.edu/edc/wp-content/uploads/sites/2/2017/08/Literacy-Specialist-Curriculum-Contract-Nov-2-2015-protected.pdf>

Plan A (thesis) students must successfully defend a thesis for program completion. Plan B (non-thesis) students must successfully defend a professional portfolio to complete the program.

Students in the Literacy program may elect to add a graduate certificate, such as the departmental certificate in Teaching in Culturally & Linguistically Diverse Classrooms, along with their required coursework. This certificate may result in additional credit requirements.

<https://education.uky.edu/edc/literacy/ma/>

Education - Secondary Education, MAEDU

The Master of Arts in Secondary Education with Initial Certification (MIC) is an intensive one calendar-year program which leads to both a master's degree and initial teacher certification for secondary education in Kentucky. The MIC may be pursued in one of two subject areas: English Education or Social Studies Education. This program is designed for students with a completed bachelor's degree in a content field in one of the following areas: English, history, a social science, or in secondary education. Students not having a degree in one of the above areas may be required to complete additional course work.

Specializations available:

- English Education
- Social Studies Education

Admission Requirements

In addition to the admission requirements set by the Graduate School, students must be admitted to the University of Kentucky's Teacher Education Program. That process involves compliance with admission requirements of the Kentucky Education Professional Standards Board (EPSB). Students meet state initial certification requirements while completing degree requirements. These requirements include:

- Cumulative undergraduate GPA of 2.75 or greater
- GPA of 2.75 or greater in major, minor, and support courses
- Minimum GRE scores: 150 (verbal), 143 (quantitative), and 4.0 (analytical).
- If students do not meet one or more of these cutoff scores, they may take the equivalent portion of the PRAXIS Core Academic Skills Test instead of retaking the GRE. The minimum PRAXIS scores for admission to the MIC are 156 (Reading), 150 (Math), and 162 (Writing).
- Resume
- Personal statement
- Writing sample
- Three letters of recommendation
- Students may need to complete additional undergraduate coursework to meet degree and certification requirements. Consult the MIC Director for specific information regarding degree requirements and the dual application process.

Degree Requirements

The master's degree program requires 31 credit hours of coursework, which includes one semester of student teaching.

Specific course requirements for English Education may be found here: <https://education.uky.edu/edc-programs/secondary-english-mic/>

Specific course requirements for Social Studies Education may be found here: <https://education.uky.edu/edc/mic/social-studies/>

Information on the overall MIC program may be found here: <https://education.uky.edu/edc/mic/>

Education and Counseling Psychology - Counseling Psychology, MSEDU

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology. Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

The Master of Science in Education degree is offered by the Department for individuals who will not meet state licensure (Licensed Psychological Associate [LPA] or Licensed Professional Counselor [LPC]) requirements in counseling or school psychology immediately upon completion. Individuals who are interested in specializing in educational psychology, human development, measurement, or research in education may obtain this degree.

Admission Requirements

Applicants to the M.S. Ed. Degree program leading to certification in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the M.S. Ed. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students are selected for these programs based on their undergraduate grade point average, Graduate Record Examination scores, letters of recommendation, a personal statement describing their selection of a career in school or counseling psychology, a writing sample, and, in the case of school psychology, a personal interview. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

The educational psychology program, planned in consultation with an advisor, is flexible and tailored to individual needs. It consists of 36 hours of course work (including a 3-hour paper) or 30 hours of course work plus a 6-hour thesis. The work completed for this degree with an emphasis in either counseling or school psychology is applicable toward licensure in either counseling or school psychology, respectively, but does not fulfill state certification requirements. In these areas no realistic thesis option is available. The counseling program prerequisites include psychological testing and abnormal psychology.

Educational and Counseling Psychology, MSEDU

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology. Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

The Master of Science in Education degree is offered by the Department for individuals who will not meet state licensure (Licensed Psychological Associate [LPA] or Licensed Professional Counselor [LPC]) requirements in counseling or school psychology immediately upon completion. Individuals who are interested in specializing in educational psychology, human development, measurement, or research in education may obtain this degree.

Admission Requirements

Applicants to the M.S. Ed. Degree program leading to certification in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the M.S. Ed. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students are selected for these programs based on their undergraduate grade point average, Graduate Record Examination scores, letters of recommendation, a personal statement describing their selection of a career in school or counseling psychology, a writing sample, and, in the case of school psychology, a personal interview. These data

provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

The educational psychology program, planned in consultation with an advisor, is flexible and tailored to individual needs. It consists of 36 hours of course work (including a 3-hour paper) or 30 hours of course work plus a 6-hour thesis. The work completed for this degree with an emphasis in either counseling or school psychology is applicable toward licensure in either counseling or school psychology, respectively, but does not fulfill state certification requirements. In these areas no realistic thesis option is available. The counseling program prerequisites include psychological testing and abnormal psychology.

Educational Leadership, MED

- The Masters of Educational Leadership (MEd) is a flexible, online degree program designed for educators to advance their careers in leadership of learning systems. The degree consists of 30 credit hours of leadership courses amongst 3 tracks. The courses throughout the program are available online and available to educators both in Kentucky and throughout the world. Kentucky students in the Masters of Educational Leadership may achieve either Rank II or Rank I designations through the Education Professional Standards Board.
- Completion of the Teacher Leadership track leads to a letter of eligibility for the Teacher Leader Endorsement from the Education Professional Standards Board.
- Completion of the Principal track leads to a letter of eligibility for the Advanced Educational Leadership Certification from the Educational Professional Standards Board.
- A general educational leadership track (non-licensure) is also available for students outside Kentucky and those choosing a non-licensure option.

Admission Requirements

- Earned Bachelors, preferably education-based, from a fully accredited institution with a 3.0 GPA on a 4.0 scale.
- Transcripts from previous post-secondary institutions
- Professional Resume
- Personal Statement
- Writing Sample
- (If pursuing licensure) A copy of a valid K-12 teaching certificate.

- (If pursuing licensure) Minimum required years of teaching experience
- (If Principal track) 2 Recommendations, including one from a district-level administrator

Degree Requirements

- 30 Credits, 10 courses, typically earned over 5 semesters including summer.
- Teacher Leader track: 15 credits, 5 Course, Core + 15 credit, 5 course electives.
- Principal track: 24 credits, 8 course, Core + 6 credit electives.
- Portfolio-based capstone final defense

Educational Policy Studies, MSEDU

The M.S. in Educational Policy Studies is designed for students who are interested in examining education policy through contextual and analytical lenses. These perspectives include: historical and philosophical, cultural and comparative, or social and political. This degree also provides students with a core suite of policy analysis tools, including courses in quantitative and qualitative research methods. Students in this program will be prepared for a variety of professional and academic placements, including policy analysis, K-16 professional advancement, or further doctoral study.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A 250 word statement of purpose describing the student's intellectual and professional goals for completing the program
- Two letters of reference with at least one from a referee familiar with the students' academic work
- Resume or Curriculum Vitae

Applications are reviewed on a rolling basis; apply anytime.

Degree Requirements

- The program requires 31 hours of coursework culminating in an individualized master's exam during the final semester.

- All EPE students are required to take EPE601 Proseminar (1 credit hour) during their first semester of study in the department.
- Core Classes include EPE 602 Social Policy Issues or 661 Sociology of Education, EPE640 Philosophy of Education, and EPE555 Comparative Education or EPE665 Education and Culture
- Choice of Concentration (9 credit hours chosen in consultation with the student's advisor)
 - Historical & Philosophical (e.g., EPE 628, EPE 651, EPE 652, EPE 653)
 - Cultural & Comparative (e.g., EPE 554, EPE 555, EPE 667)
 - Social & Political (e.g., EPE 525, EPE 603, EPE 661, EPE 670, EPE 675)
- Research Methods & Statistics: (minimum 9 credit hours)
 - One Research Methods/Evaluation Course (e.g., EPE 620, EPE 663, EPE 797)
 - One Statistics Course (e.g., EPE 557, EPE 558, EPE 660)
 - One Additional Course (e.g., any of above or EPE 522, EPE 619, EPE 621, EPE 763)
- Elective Course (3 credit hours of any elective chosen in consultation with advisor)
- A student's program of study may vary from this structure if they receive approval from their major advisor.
- Students may include an EPE graduate certificate in Research Methods or Comparative & International Education as part of their MS EPS program.

Education.uky.edu/EPE

Electrical Engineering, MSEE

The Department of Electrical and Computer Engineering offers advanced studies leading to either a Master of Science in Electrical Engineering or a Doctor of Philosophy in Electrical Engineering.

The Department of Electrical and Computer Engineering has active research programs in the following areas: power electronics, power systems, electromechanics, computer engineering, control systems, electromagnetics, electro-optics, micro and nano-electronics, signal processing, communication systems, and controls. Departmental laboratories are well-equipped for students' research. In addition, the Power and Energy Institute of Kentucky provides additional research opportunities.

Admission Requirements

A minimum grade point average of 3.0/4.0 on all undergraduate work is required for admission to the graduate program. A minimum GRE general test scores of 301 (combination of Verbal and Quantitative sections) and analytical writing of at least 2.5 for the M.S. degree. The corresponding minimum GRE scores for Ph.D. Degree are 310 (V+Q) and 3.0 (Writing). Meeting the minimum requirements does not guarantee admission will be granted. Acceptance is based upon a competitive evaluation and on a space availability basis. An undergraduate degree in electrical engineering is preferred. Those applicants without a B.S.E.E. degree from an ABET accredited EE program should develop competence and demonstrate ability in the fundamentals of electrical engineering. Such students, before being admitted to full graduate standing within the department, must take (or have taken an equivalent of) a set of prescribed electrical engineering remedial courses. A minimum grade of C must be made in these courses.

Degree Requirements

For the M.S.E.E. degree, both the thesis and non-thesis options are available. The thesis option requires 30 hours of acceptable graduate level work to include, if desired, no more than 6 credit hours of ECO 768, plus the satisfying of the usual requirements for the thesis. The non-thesis option, Plan B, requires 30 hours of acceptable graduate work plus an additional three hours of EE 784 (Research Project in Electrical Engineering). All students in their first semester of regular graduate work must select an academic advisor who will assist the student in formulating a graduate plan of study leading to their particular degree. This plan, which must receive the approval of the Director of Graduate Studies, must contain specific courses and a proposed thesis area or specialized project topic.

In order to assure a minimum breadth and level of understanding at the graduate level, all EE graduate students must take three of six specified courses from the major areas of electrical engineering. These courses are:

- EE 611 DETERMINISTIC SYSTEMS
- EE 621 ELECTROMAGNETIC FIELDS
- EE 640 STOCHASTIC SYSTEMS
- EE 641 ADVANCED POWER SYSTEMS
- EE 661 SOLID-STATE ELECTRONICS
- EE 685 DIGITAL COMPUTER STRUCTURE

English, MA

The two-year MA program in English at the University of Kentucky provides broad training in literature, language, and theory. The flexible program is designed to meet the academic and professional needs of a range of students, including scholars who plan to move on to the PhD degree and teachers and professionals in the region who wish to pursue the terminal MA. Students can select either literature or film as their area of concentration. With rare exceptions, all MA students are funded through TAs.

The department offers a wide variety of specializations not only in traditional literary history but also in film studies, cultural studies, African-American Studies, and Postcolonial Theory. The Department of English consists of 41 full-time faculty members who offer a range of courses in British, American, African-American, and Women's Literature, Creative Writing, Film, and Literary Theory. The graduate program relies on a nationally recognized faculty, a strongly supportive University of Kentucky Research Foundation, an active university press, and a research library of 1.2 million volumes.

Admission Requirements

Students eligible for the MA program must have:

- A UGPA of at least 3.25 on a 4.0 scale. Unofficial transcripts from all attended institutions are required. If the student is admitted and accepts, the graduate school will require all official transcripts. University of Kentucky graduates should note their degrees on the application but are not required to submit transcripts.

- An undergraduate degree in English or its equivalent. Applicants who do not complete an undergraduate English major but have a substantial background in literature should contact the Director of Graduate Studies.
- Three letters of recommendation, preferably from faculty familiar with the student's strengths and interests.
- A statement of purpose of no more than two pages that outlines what research interests the student expects to pursue for the PhD.
- A writing sample of approximately 20 pages that demonstrates the student's ability to carry out original research and make cogent arguments.
- A CV or resume.
- As of fall 2021, neither the general GRE nor the subject test in English is a required component of a student's application.

Degree Requirements

The MA timeline has two paths: a thesis (Plan A) and a non-thesis (Plan B) option.

Plan A students must

- Take 30 credit hours of coursework at the graduate level, which may include up to 6 hours of ENG 768. Students on assistantship are advised to take nine credit hours each semester (fall and spring) during the first year, six credit hours in the fall of the second year, and spend the spring semester of their second year writing their thesis and preparing for their oral examination. The oral examination will take place toward the end of the spring semester of the second year.
- Form a thesis committee consisting of a director and two other faculty members from within the English department.
- Write a Master's thesis (normally not to exceed 60 pages) on an original topic in a recognizable subfield of the discipline.
- Defend the thesis in a 90-minute oral examination.

Plan B students must

- Take 30 credit hours of coursework at the graduate level. Students on assistantship are advised to take nine credit hours each semester (fall and spring) during the first year and six credit hours each semester (fall and spring) during the second year. The oral examination will take place toward the end of the spring semester of the second year.
- Form a committee consisting of a director and two other faculty members from within the English department.

- Take a 90-minute oral examination based on a reading list of 30 to 50 texts to complete their degree.

MA students who choose either Plan A or Plan B may take up to six credit-hours of courses at the graduate level outside of the English Department. They can also apply for a wide variety of graduate certificates, which typically require 9 to 15 hours of coursework. These certificates range from Gender and Women's Studies to Social Theory to Preparing Future Faculty.

For a list of the available certificates, see here: <https://gradschool.uky.edu/graduate-certificates>

For a fuller sense of what the English department doctoral program's requirements and expectations are, including sample timelines to degree, see here: <https://english.as.uky.edu/doctoral-program>

Entomology, MS

The Department of Entomology has a rich legacy of vibrant scholarship and innovative education and outreach, coupled with strong commitment to graduate education. Individual graduate programs are planned by students in consultation with their advisory committees and the Director of Graduate Studies.

Entomology, like all agricultural and biological sciences disciplines, continues to evolve and integrate state of the art technology and new research perspectives with insect biology. Although departmental research is unified by a focus on insects and their arthropod relatives, many research groups creatively merge aspects of basic and applied biology. Graduate study and research opportunities are available in a diverse range of areas of entomology, including agricultural and urban entomology, biological control and integrated pest management, medical, veterinary, and public health entomology, pollinator biology and insect-plant relationships, forest entomology, and arachnology. Research covers many major fields of biology including behavior, biochemistry, ecology (including evolutionary, urban, landscape, and general ecology), genetics, neuroscience, molecular biology, physiology, toxicology, and systematics.

Graduate study and research opportunities are available in a diverse range of areas of entomology, including agricultural and urban entomology, biological control and integrated pest management, medical, veterinary, and public health entomology, pollinator biology and insect-plant relationships, forest entomology, and arachnology. Research covers many major fields of biology including behavior, biochemistry, ecology (including evolutionary, urban, landscape, and general ecology), genetics, neuroscience, molecular biology, physiology, toxicology, and systematics.

Admission Requirements

A Bachelor's degree with an undergraduate grade point average of 3.0 and GPA of 3.25 in all graduate level work are required. Graduate Record Examination scores are not required. Applicants whose native language is not English must have a Test of English as a Foreign Language (TOEFL) with a minimum score of 79 on the TOEFL-iBT. A minimum overall band score of 6.5 on the International English Language Testing System (IELTS) may be used in lieu of a TOEFL score. The Program requires three letters of recommendation. Meeting the minimum requirements does not guarantee admission. These minimum requirements may be waived in exceptional cases if sufficient additional evidence is presented regarding the ability of the student to do graduate work. Admission to the Graduate Program in Entomology does not automatically guarantee financial assistance to the student.

Degree Requirements

M.S. Plan A

During their first year of graduate studies, M.S. Plan A students complete a formal written research proposal encompassing a thorough literature review, clear statement of objectives, and materials and methods of the project. A research proposal seminar will be presented to the Department upon completion of the written research proposal. An exit seminar, usually presented during the last semester of the student's tenure, is required. In addition, the follow requirements must be completed:

- 30 credit hours, including 6 credit hours of Residence Credit for the MS degree
- STA 570 (Basic Statistical Analysis) or equivalent, or a different statistics course approved by the student's advisory committee
- Completion of courses in two of three Core Areas. Core Areas include diverse courses in 1) Insect Behavior, Ecology, Evolution and Systematics, 2) Insect Molecular Biology, Physiology and Genetics, and 3) Pest Management and Applied Ecology.
- M.S. candidates must take two semesters of Entomological Seminar (ENT 770), or seminars from other departments approved by the student's advisory committee
- MS Thesis
- Final Examination

M.S. Plan B

During their first year of graduate studies M.S. Plan B form an advisory committee. In addition, the follow requirements must be completed:

- 36 credit hours
- STA 570 (Basic Statistical Analysis) or equivalent, or a different statistics course approved by the student's advisory committee
- Completion of at least one course in each of three Core Areas. Core Areas include diverse courses in 1) Insect Behavior, Ecology, Evolution and Systematics, 2) Insect Molecular Biology, Physiology and Genetics, and 3) Pest Management and Applied Ecology.
- M.S. Plan B candidates must take two semesters of Entomological Seminar (ENT 770), or seminars from other departments approved by the student's advisory committee
- Practicum project
- Final Examination

Family Sciences, MSFS

The family sciences master's (M.S.) program uses an integrative approach to learning about improving individual, family, and community well-being. The program prepares students for immediate employment in their chosen area, and also provides an excellent foundation for subsequent matriculation into a doctoral program.

Five emphasis areas are available in the family sciences master's program: (a) adolescent development, (b) aging, (c) couple and family therapy, (d) family finance and economics, and (e) family processes. The couple and family therapy (CFT) emphasis area is accredited by the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE).

Admission Requirements

Students must have a bachelor's degree prior to admission into the master's program. Admissions are conducted one time each year; the application deadline is January 15 for admission Fall Semester of the same calendar year. Applicants must submit a statement of their academic goals for the M.S. degree and three letters of recommendation. See <https://fam.ca.uky.edu/content/applications-and-admissions> for details.

Degree Requirements

Credit Requirements:

- Total credit hours required for non-CFT emphasis areas: 30
- Total credit hours required for CFT emphasis area: 53

Course requirements for all emphasis areas:

- FAM 601 FAMILY PROCESSES (3 credit hours)
- FAM 652 READINGS IN FAMILY THEORY AND RESEARCH (3)
- FAM 654 THE LIFE COURSE PERSPECTIVE ON FAMILIES AND INDIVIDUALS (3)
- FAM 668 ALLOCATION OF FAMILY RESOURCES (3)
- FAM 690 RESEARCH METHODS IN FAMILY SCIENCE (3)
- FAM 775 SEMINAR IN HUMAN DEVELOPMENT AND FAMILY RELATIONS (1)
- Thesis or Scholarly Project (6)

Additional requirements for CFT emphasis area:

- FAM 640 USING THE DSM IN CFT ASSESSMENT (3)
- FAM 745 FAMILIES AND CHILDREN IN PLAY THERAPY (3)

- FAM 685 PROFESSIONAL ISSUES IN COUPLE AND FAMILY INTERVENTION (3)
- FAM 686 THEORY AND METHODS IN COUPLE AND FAMILY THERAPY (3)
- FAM 740 COUPLE AND SEX THERAPY (3)
- FAM 787 SUPERVISED PRACTICE OF COUPLE/FAMILY THERAPY (10)

Electives:

- All students will work with their advisory committee to select a data analysis course (e.g., qualitative or quantitative). Students in the adolescent development, aging, family finance and economics, and family processes emphasis areas will work their advisory committee to select at least 5 credit hours in their emphasis area.
- Other than the data analysis course, students in the CFT emphasis follow a proscribed course of study.

Program Websites

- For an overview of the MS program in Family Sciences please visit: <https://fam.ca.uky.edu/content/masters-program>
- Example two-year plans can be found on the following website: <https://fam.ca.uky.edu/content/curriculum-0>

Finance, MSFI

The University of Kentucky's Master of Science in Finance (MSF) degree prepares students for a professional career in the finance and banking industries. The program is CFA Institute affiliated and prepares students for CFA exams. The MSF is also a STEM program, hence international students are eligible for 3 years of OPT after graduation. Students gain first-hand investment experience by managing millions of dollars of real money. The program is designed to provide rigorous and focused training in finance, broaden opportunities in your career, and sharpen skills for the fast-changing and competitive world of modern finance. Job candidates with MSF degrees are highly desired in finance-specialized industries, particularly investment banking and asset management companies such as mutual funds, hedge funds, and pension funds. They are also sought after by corporate treasury departments. The job opportunities in these industries are substantial, intellectually stimulating, and high-paying.

Admission Requirements

A bachelor's degree in any field with an overall GPA of 2.75 or above. GMAT (or GRE) is required, but can be waived based on 1) above 3.5 GPA; or 2) work experience in business/finance ; or 3) professional certifications include CPA, CFA, FRM, professional trainings/courses and/or credentials.

Degree Requirements

- Thirty credit hours
- Minimum GPA of 3.0
- Ten courses from the following fourteen courses (each is three credit hours):
 - FIN 600 CORPORATE FINANCIAL POLICY
 - FIN 623 INTERNATIONAL FINANCIAL MANAGEMENT
 - FIN 630 FINANCIAL MODELING AND ANALYSIS
 - ACC 621 UNDERSTANDING FINANCIAL STATEMENTS
 - ECO 491G APPLIED ECONOMETRICS
 - FIN 645 CORPORATE INVESTMENT AND FINANCING POLICY
 - FIN 650 INVESTMENTS
 - FIN 652 OPTIONS, FUTURES, AND DERIVATIVES
 - FIN 685 INVESTMENTS PRACTICUM
 - FIN 686 INVESTMENTS PRACTICUM II
 - FIN 688 FINANCIAL ANALYTICS TOOLS
 - FIN 691 ADVANCED TOPICS IN FINANCE (SUBTITLE REQUIRED)
 - MBA 647 NEW VENTURE FINANCE
 - MA 427G FINANCIAL MATHEMATICS

Forensic Toxicology and Analytical Genetics, MFTAG

As the flagship university in the Commonwealth, the University of Kentucky provides the only Master of Forensic Toxicology and Analytical Genetics (or degree of comparable nature) in the state, and it is only the fifth such professional master's degree in the field of forensics in the nation.

This two-year program has two areas of concentration: one concentration is focused on Forensic Toxicology/Chemistry and the second on Forensic/Analytical Genetics. Through the common core curriculum, students in both concentrations will have foundational information and skill set in advanced forensic science, writing, communication, professionalism, ethics, legal perspectives, and workplace-specific laboratory skills. Through a rigorous targeted finishing curriculum in either concentration, including internship experiences and cognate elective courses, the graduates will be competitive for workforce deployment in the areas of private industry drug testing, private DNA analysis, forensic governmental divisions, and hospital clinical labs. For more information on this program, please visit <https://toxicology.med.uky.edu/tox-professional-master-forensic-toxicology-and-analytical-genetics>

Admission Requirements

Applicants must meet the following requirements for admission to the University of Kentucky Graduate School and the Forensic Toxicology and Analytical Genetics program. An undergraduate bachelor's degree in biology, chemistry, forensic science or a related field of study from an accredited university is preferred. However, students with other bachelor's degrees or the equivalent from an accredited university will be considered if they are judged to be highly competitive and have completed foundational undergraduate

courses in chemistry, biology or related fields. A Graduate Record Examination (GRE) score is not required.

More information on how to apply can be found here <http://toxicology.med.uky.edu/tox-admissions-0>

Degree Requirements

Core Courses Required for Both Concentrations

- TOX 800 FUNDAMENTALS IN FORENSIC SCIENCE (4)
- IBS 611 PRACTICAL STATISTICS (2)
- TOX 810 COMMUNICATING IN THE FORENSIC SCIENCE PROFESSION (1)
- TOX 820 PREPARING PROFESSIONALS IN FORENSIC SCIENCE AND ANALYTICAL GENETICS (1)
- TOX 840 FORENSIC SCIENCE STANDARDS AND PRACTICES (3)
- TOX 880 ETHICS AND PROFESSIONAL PRACTICE IN FORENSIC SCIENCE AND ANALYTICAL DNA (3)
- TOX 980 INTERNSHIP IN FORENSIC TOXICOLOGY AND ANALYTICAL GENETICS (6)

Forensic Toxicology/Chemistry Concentration Required Courses

- TOX 663 DRUG METABOLISM AND DISPOSITION (2)
- TOX 860 FORENSIC AND ANALYTICAL TOXICOLOGY (3)
- TOX 920 INSTRUMENTAL TECHNIQUES IN FORENSIC CHEMISTRY (4)
- BCH 401G FUNDAMENTALS OF BIOCHEMISTRY (3)

Forensic/Analytical Genetics Concentration Required Courses

- TOX 830 ADVANCED HUMAN GENETICS (2)
- ABT 461G INTRODUCTION TO POPULATION GENETICS (3)
- IBS 602 MOLECULAR BIOLOGY AND GENETICS (3)
- TOX 910 FORENSIC AND ANALYTICAL DNA (4)
- BCH 401G FUNDAMENTALS OF BIOCHEMISTRY (3)

Electives

- TOX 780 SPECIAL PROBLEMS IN TOXICOLOGY (1-6)
- TOX 790 RESEARCH IN TOXICOLOGY AND CANCER BIOLOGY (1-5)

- MBA 624 ENTREPRENEURSHIP AND MANAGEMENT TECHNOLOGY COMMERCIALIZATION (3)
- PA 651 THE POLICY PROCESS (3)

A suggested curriculum plan can be found here <https://toxicology.med.uky.edu/tox-curriculum-overview-0>

Forest and Natural Resource Sciences, MSFNRS

The MS in Forest and Natural Resource Sciences (FNRS) is offered by the Department of Forestry and Natural Resources. A goal of the Forest and Natural Resource Sciences Graduate Program is to contribute to improved forest health and management through enhanced understanding of relevant ecological and social benefits and constraints. Consequently, a student's degree program may be directed toward any of the disciplinary or interdisciplinary fields in Forest and Natural Resource Sciences, which range from molecular to landscape and societal levels. The Program's current research has particular strengths in southern Appalachian hardwood forest ecology and management, forest hydrology and watershed management, reforestation and mine reclamation, invasive species and forest health, animal ecology and management, and human dimensions including forest policy and economics.

Students may elect to pursue the Master of Science in Forest and Natural Resource Sciences degree under Plan A, which requires a minimum of 30 semester hours of graduate course work plus an acceptable thesis, or under a non-thesis option (Plan B), which requires a minimum of 30 semester hours of graduate course work that includes an area of specialization.

Admission Requirements

Applicants for admission to the Master of Science in Forest and Natural Resource Sciences degree program must hold (by the time of enrollment in the program) an awarded four-year baccalaureate degree from an accredited institution of higher learning. Although it is not required that an applicant's undergraduate degree be in forestry or another natural resource field, a student admitted to the program who lacks essential undergraduate courses may be required by an advisory committee to take them. Applicants are expected to have an overall undergraduate grade point average of 3.00 and a minimum combined verbal and quantitative score on the Graduate Record Examination (GRE) of 297.

More detailed information concerning the Forest and Natural Resource Sciences Graduate Program's admission procedures, assistantships, and degree requirements may be obtained at <http://forestry.ca.uky.edu/forestry-graduate-program>. Specific area(s) of interest of our individual faculty members can be found at: <http://forestry.ca.uky.edu/faculty>.

Degree Requirements

Total credit hours: 30 (Plan A), 30 (Plan B)

Core requirements include: All Forest and Natural Resource Sciences graduate students take: 1) FOR 601 RESEARCH METHODS IN FORESTRY, 3 credits; 2) FOR 602 RENEWABLE NATURAL RESOURCES IN

A GLOBAL PERSPECTIVE, 3 credits and 3) FOR 770 FORESTRY SEMINAR (SUBTITLE REQUIRED) three times, 3 credits total.

Student focus their remaining coursework requirements by taking 500, 600 or 700 levels courses through various departments at UK. For more details: See <http://forestry.ca.uky.edu/plan-A-thesis-option-masters>

Program Website: <http://forestry.ca.uky.edu/forestry-graduate-program>

French, MA

Graduate students in French and Francophone Studies are members of a dynamic intellectual environment. In addition to their coursework in French language, literature, and culture, M.A. candidates at UK pursue their intellectual interests in adjacent fields such as philosophy, history, women's studies, film studies, linguistics, English, and art history. Graduates of the M.A. in French and Francophone Studies program often pursue PhD degrees in French Studies at some of the best doctoral programs in the U.S, including, in recent years, Harvard, Michigan, UPenn, Duke, and Berkeley. Other graduates have gone on to teach in independent schools around the U.S. or have pursued a second Master's degree at the UK in Teaching World Languages (MATWL) or Teaching English as Second Language (MATESL), or through the UK Patterson School of Diplomacy and International Commerce. Others have gone on to law school or graduate programs in, for example, international affairs, education and study abroad administration, or work in the U.S. Department of State.

Admission Requirements

- Evidence of completion of the equivalent of the University of Kentucky's undergraduate major in French
- A minimum 3.25 undergraduate GPA in French on a four-point scale
- A statement of purpose for seeking the M.A. in French and Francophone Studies
- Completion of the GRE
- Three letters of recommendation addressing the applicant's qualifications for graduate work in French
- A writing sample in French by the applicant (analytical prose, typically a graded term paper; not a creative work)
- Non-native speakers of French must submit a digital recording (3-4 minutes) of themselves reading a contemporary prose passage in French (a newspaper or magazine article, not a literary work). Because there is no way to upload this recording directly into the Graduate School's application system, applicants should send the recording as an email attachment directly to the Director of Graduate Studies.
- Non-native speakers of English must submit a digital recording of themselves reading a contemporary prose passage in English (a newspaper or magazine article, not a literary work). Because there is no way to upload this recording directly into the Graduate School's application system, applicants should send the recording as an email attachment directly to the Director of Graduate Studies. In addition, they must fulfill the UK Graduate School's Test of English as a Foreign Language (TOEFL) requirement.

Degree Requirements

- 30 credit hours

- FR 553 TEACHING OF FRENCH
- 27 hours of graduate-level coursework in French and Francophone Studies
- Successful completion of the Master's Examination during the fourth semester of study
- Documented reading proficiency, as defined by the UK Graduate School, in a second world language

<https://mcl.as.uky.edu/ma-french>

Geography, MA

The MA in Geography is designed to develop the theoretical, conceptual and methodological training necessary for students to make original contributions to geographic knowledge. The University of Kentucky's Department of Geography is known for high quality research and education in human geography, physical geography, and mapping. Program strengths include close faculty/student interaction, flexibility in designing an appropriate plan of study, and research training in seminar environments.

A variety of philosophical and methodological approaches are encouraged to prepare students for research-oriented careers in universities, government, and industry. Emphasis is placed on theoretical and methodological training and is closely integrated with both breadth and depth in substantive literatures. Student research also is empirically rich, with data regularly acquired through off-campus fieldwork. Members of the faculty are committed to assisting students in disseminating their research through publications in professional journals and presentations at conferences, and in obtaining external funding. Graduate students also gain valuable experience as instructors in undergraduate courses. Rounding out graduate students' experiences is their active participation in departmental governance and service on departmental committees.

Faculty and student research in the Department focuses on interrelated thematic clusters in accordance with the current interests of graduate students and faculty. The clusters facilitate collaborative scholarship though they typically do not function as formal research teams. The clusters tend to work as loose and overlapping intellectual communities that can incorporate working groups, reading groups, and collaborative projects, and they give a sense of the breadth of the research conducted in the department. The research clusters we presently feature are: Black Geographies, Critical Financial Geographies, Critical Mapping and GIS, Digital Geographies, Environmental Geographies, Political Ecology, Political Geographies, Queer and Feminist Geographies, Social Theory and Urban Geographies. Descriptions of each cluster and their associated faculty are available at <https://geography.as.uky.edu/geography-research-clusters>

The MA in Geography is available in two options:

- Plan A: 30 credit hours of coursework (including six credits of thesis) and an oral examination.
- Plan B: 30 hours of coursework, a research paper, a written exam and an oral examination.

Admission Requirements

We accept applicants holding Bachelor degrees in any field. In addition to UK Graduate school required materials, applicants should also provide:

- A statement of goals and objectives in which you discuss your areas of scholarly interest, research directions you wish to pursue, and how your goals fit in with the Department of Geography.
- A current resume or curriculum vitae.

- Three letters of references from persons who can evaluate your potential for success in our graduate program.

More details are available at <https://geography.as.uky.edu/admissions>

Degree Requirements

- Students are required to complete thirty hours of coursework.
- Students are required to take GEO 600 INTRODUCTION TO METHODS IN GEOGRAPHY
- Students are required to take GEO 702 CONCEPTS IN GEOGRAPHY
- Plan A students are required to take six credits of GEO 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE (Thesis)
- Plan B students are required to take an advanced methods course (such as GEO 705) appropriate to the student's interest and approved by the student's thesis advisor and the DGS
- For the remaining credits qualifying courses are as follows:
 - no more than 6 credit hours below the 600 level in the Department of Geography (GEO or MAP prefixes);
 - no more than 6 credit hours of independent study;
 - no more than 9 credit hours taken outside the Department of Geography; and
 - at least 16 credit hours must be regular courses (not independent study courses) numbered at the 600 or 700 level.

Geological Sciences, MS

The Department of Earth and Environmental Sciences offers graduate studies leading to the M.S. and Ph.D. degrees in Geology. Students with degrees in geology, any other natural science, or engineering are invited to apply.

Research within the Department of Earth and Environmental Sciences is funded by grants and contracts from NSF, DOE, PRF, and other federal, state, and industrial sources. Areas of graduate research are in fields covered by regular and adjunct faculty, including coal geology, hydrogeology, stratigraphy, petrology, geophysics, and tectonics.

Admission Requirements

Admission to pursue an M.S. or Ph.D. degree requires a bachelor's degree, a minimum grade point average of 2.75, three letters of reference and results from the verbal, quantitative, and analytical Graduate Record Examination (GRE). TOEFL scores are required for international applicants. For more details, please consult Admissions Information and Assistantships and Fellowships.

Admission criteria include GPA, GRE scores, prior course work, letters of reference, previous experience, and match with faculty research interests. This program requires an undergraduate GPA of at least 3.0 on all undergraduate and graduate work. For international applicants, we require that applicants rank in the top 25% of their graduating classes.

GRE must be taken, but there is no minimum score. Applicants who score at least 75th percentile on one category of the GRE and who have (a) an overall undergraduate GPA of 3.30, (b) a GPA of 3.60 for the last 60 credit hours of undergraduate work, or (c) a GPA of 3.80 for a completed master's degree (in each case

from a US institution) are eligible for a Pirtle Fellowship, which provides \$3,000 in summer salary. Most applicants have a "standard" geology background, but strong students with backgrounds in the sciences and engineering are also admitted. Spoken English proficiency is important because many of our graduate students are employed as teaching assistants (in particular, as laboratory instructors). For international applicants, the Graduate School requires a minimum score of 550 on the TOEFL (213 on the computerized version; 79 on the internet-based version) or 6.5 on the IELTS. We typically only consider admission to the PhD program after completion of a master's degree either here at UK or at another US or European institution. Students who are deficient in one or more respects may be admitted provisionally or as non-degree students by action of the Graduate Committee. Your chances of admission are better if you've identified faculty members with whom you might work. We recommend you consult our faculty research specialties at <https://ees.as.uky.edu/faculty> and directly contact faculty in your areas of interest.

Degree Requirements

The Master of Science in Geological Sciences (Plan A) requires the completion of graduate course work and a thesis. The student must complete at least 30 credit hours of graduate course work, which may include up to 6 hours of EES 768*. The normal graduate load is 9 -10 credits during each of the first two semesters, and no more than 12 credits is advised. Graduate courses are those in the 500, 600, or 700 series, or in the 400G series if outside the Department of Earth and Environmental Sciences. At least 16 credits must be in EES course work, including 3 credits of Scientific Communication (EES 695-001). At least 12 credits must be in the 600 or 700 series, and at least 9 of the 600- or 700-level credits must be in EES courses. At least 16 hours must be regular (non-research) courses. Full-time students who are enrolled in at least 3 hours but less than 9 hours of coursework, which is typical in the third semester of the M.S. program, should register for EES 768 RESIDENCE CREDIT FOR MASTER'S DEGREE to reach 9 hours total. *768 hours do not count towards the 16 hours of EES coursework or the 12 hours of 600 or 700 series.

German, MA

The Department of Modern and Classical Languages, Literatures and Cultures offers a graduate program leading to the M.A. (Plan A or B) degree in German.

The general goal of graduate work in German is to provide students with a critical understanding of German culture, its language and literature and its relationship to western civilization as a whole. Specific courses are designed to acquaint students with the aims and methods of research in the fields of language pedagogy, literary and cultural history, literary theory, and historical linguistics. Students working as teaching assistants under faculty supervision have ample opportunity to develop effective teaching skills in a controlled setting.

Individual programs of study are planned with consideration of the student's competencies and interests. The Department endeavors to be flexible and to accommodate career goals in teaching, government service, or research. Areas of specialization of the graduate faculty of the department afford flexible coverage in breadth and depth, with particular strength in early modern studies, the Age of Goethe, Wilhelmine and Weimar culture, contemporary literature and culture, literary theory, intellectual history, gender studies, and foreign language pedagogy. The Department serves as the editorial center for the international journal *Colloquia Germanica*. The University Library has substantial holdings in all areas of German language, linguistics and literature and in supporting fields.

Admission Requirements

Admission requirements include an acceptable undergraduate major in German, a satisfactory score on the Graduate Record Examination (GRE), and three letters of recommendation. Applicants lacking more comprehensive knowledge of German language and literature may be admitted with the understanding that their program must include some advanced undergraduate work in addition to those courses normally required for the M.A.

Degree Requirements

Plan A (thesis):

- 30 total credit hours
- 24 credit hours in GER prefix courses not including GER 768 RESIDENCE CREDIT FOR MASTER'S DEGREE
- Graduate foreign language requirement, normally in French
- Completion of a thesis and oral examination

Plan B (non-thesis):

- 30 total credit hours, of which 24 must be in courses with the GER prefix
- Graduate foreign language requirement, normally in French
- An oral and written examination

<https://mcl.as.uky.edu/ma-german>

Health Administration, MHA

The Master of Health Administration (MHA) program is offered in the College of Public Health. Its mission is to provide students with critical competencies required to succeed in leadership positions in health systems, hospitals and other complex health-related organizations, and to build a solid foundation for their future career development. The MHA program focuses on preparing students early in their careers for positions that require management and strategic abilities, and places special emphasis on needs and opportunities in healthcare organizations within Kentucky and the region. MHA courses draw on the expertise of faculty from several UK colleges, UK HealthCare, and other healthcare organizations in Kentucky and beyond.

Admission Requirements

- A 3.0 or higher undergraduate grade point average is recommended.

- Official scores on the Graduate Record Examination (GRE) or Graduate Management Admissions Test (GMAT). Verbal and quantitative scores at the 50 percentile or better are recommended.
- Three letters of recommendation (at least one from a faculty member who has taught or supervised the applicant).
- Personal statement
- Official TOEFL scores (international students only).
- Official GRE/ GMAT, TOEFL scores and copies of official transcripts must be submitted by the applicant directly to SOPHAS or HAMPCAS.
- Applicants must also submit a supplemental application to the University of Kentucky's Graduate School; <http://gradschool.uky.edu/welcome-university-kentucky>
- Applicants are encouraged to apply early for all scholarship/financial aid consideration.
- Application deadline for international students March 15th.
- Application deadline for all other applicants is June 30th.
- Admission is competitive and decisions are made on a rolling basis, so applicants are encouraged to apply early.
- Students are admitted only in the fall semester.

Degree Requirements

The total program consists of 50 semester hours at the graduate level. Program completion normally requires two years for a full-time student and four years for part-time students. Students are also required to complete a final integrative master's examination. To be eligible to sit for the final examination, students must have completed or be enrolled in their last semester of coursework and have an overall GPA of 3.0 or better. Students with "I" or "S" grades in credit-bearing classes are not eligible for the final examination.

Program Curriculum

The following curricular requirements are presented as a guide to your matriculation through the program, but depending on previous coursework, there may be changes and alternatives suggested by the MHA Graduate Advisor.

Required Courses

Course Title (Credit Hours)

CPH 600 HEALTH SERVICES AND SYSTEMS ORGANIZATION (3)

CPH 605 EPIDEMIOLOGY (3)

CPH 652 HEALTH FINANCE (3)

CPH 655 MANAGEMENT ACCOUNTING FOR HEALTH CARE ORGANIZATIONS (3)

CPH 658 HEALTH ECONOMICS (3)

CPH 663 INTRODUCTION TO PUBLIC HEALTH PRACTICE AND ADMINISTRATION (1)

CPH 681 LEGAL ASPECTS OF HEALTHCARE MANAGEMENT (3)

CPH 682 QUANTITATIVE METHODS FOR HEALTHCARE MANAGEMENT (3)

CPH 683 OPERATIONS MANAGEMENT AND QUALITY IMPROVEMENT (3)

CPH 684 HUMAN RESOURCES MANAGEMENT IN HEALTHCARE (2)

CPH 687 ORGANIZATION THEORY AND BEHAVIOR (3)

CPH 688 INTERNSHIP IN HEALTH ADMINISTRATION (1)

CPH 780 STRATEGIC PLANNING AND MARKETING IN HEALTHCARE (3)

CPH 781 HEALTHCARE ETHICS AND GOVERNANCE (2)

CPH 782 INFORMATION SYSTEMS IN HEALTH CARE (3)

CPH 784 CASE STUDIES IN HEALTH ADMINISTRATION (2)

CPH 785 HEALTH POLICY (3)

CPH 787 INDEPENDENT STUDY IN HEALTH ADMINISTRATION (1)

Electives

Please see your advisor for elective options.

Subtotal: Elective Hours (5)

Total Minimum Hours Required for Degree - 50

Higher Education, MSEDU

The Master of Science in Higher Education (HIED) is a degree program with recommended pathways in Higher Education Policy and Student Affairs. The program serves those contemplating careers in higher education or already working in a college or university, as well as those interested in pursuing the study of higher education at the doctoral level.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A 250 word statement of purpose describing the student's intellectual and professional goals for completing the program
- Two letters of reference with at least one from a referee familiar with the students' academic work

- Resume or Curriculum Vitae
- Deadlines for Applications are October 1st and February 1st.

Degree Requirements

- The program requires 31 hours of coursework culminating in a common written master's exam during the final semester.
- All EPE students are required to take EPE601 Proseminar (1 credit hour) during their first semester of study in the department.
- Core Classes recommended of all MS HIED students
 - EPE 612 INTRODUCTION TO HIGHER EDUCATION
 - EPE 653 HISTORY OF HIGHER EDUCATION
 - EPE 676 ORGANIZATION AND ADMINISTRATION OF HIGHER EDUCATION
- MS HIED students then design a focus following suggested pathways in Higher Education Policy or Student Affairs.
- The MS in HIED program plan also requires one 3 credit hour research course selected in consultation with their advisor.
- Internships are recommended, but not required. Internship experiences are designed by the student and their advisor to meet individual professional and/or scholarly goals.
- Electives can be chosen from EPE courses as well as courses outside of EPE and the College of Education with permission of the student's advisor.
- Students may include an EPE graduate certificate in Research Methods or Comparative & International Education as part of their MS HIED program.

<https://education.uky.edu/epe/>

Hispanic Studies, MA

Admission Requirements

We require a B.A. in Hispanic Studies or a related area, demonstrated fluency in Spanish and English, strong letters of reference and a representative research essay from the candidate's prior academic work. Graduate Record Examination scores are required for admission. Foreign students must pass the TOEFL with the minimum required score of 550 on the paper version of the exam, 213 on the computer version, or 79 on the Internet/IBT version. Supervised teaching experience within the department is a requirement for both the M.A. and Doctoral degrees.

Degree Requirements

36 credit hours total. Reading knowledge of one foreign language in addition to Spanish and/or English; successful completion of SPA 553 TEACHING OF SPANISH, SPA 600 INTRODUCTION TO SPANISH LINGUISTICS, SPA 606 INTRODUCTION TO CRITICAL THEORY AND CULTURAL STUDIES and SPA 770 INTRODUCTION TO HISPANIC STUDIES. Successful completion of an additional 24 hours of credits of which 6 may be taken at the 500 level (24 credits must be taken at the 600 level or above). The M.A. is granted to a student who has successfully passed a written and oral examination after completing the required coursework. One half of the exam is designed to test the candidate's knowledge of the M.A. Reading List (located at <https://hs.as.uky.edu/sites/default/files/Post-May%202015%20MA%20Reading%20List.pdf>) and the other half is based on the candidate's graduate-level coursework. A student who plans to complete only the M.A. degree (or is not admitted into the Ph.D. program) has four semesters to complete the coursework towards the MA. M.A. exams are given in August and January.

NOTE: Students who are admitted into the Ph.D. program during the fourth semester of coursework are not required to take an M.A. exam after four semesters. The M.A. degree will be conferred to them upon successful completion of the doctoral Qualifying Exam. Students who enter the program with an M.A. from another institution will be evaluated by the Graduate Studies Committee at the beginning of the third semester of coursework. If the committee deems the student's work acceptable, the student may then go on to complete the PhD requirement. If the work is deemed unacceptable, the student will be required to pass the MA exam before proceeding on to the Ph.D

Historic Preservation, MHP

From historic buildings and archaeological sites to urban neighborhoods and rural landscapes, graduates of the Master of Historic Preservation (MHP) program are actively engaged in the identification, documentation, protection, and sustained use of a broad range of historic and cultural resources. Historic preservation is a complex and interdisciplinary field that requires creative thinking about the relationship between the past, present, and future. It applies the skills of historians, designers, anthropologists, engineers, and many other allied fields to sites of historical meaning and significance. Our graduates work in private practice, at every level of government, and in the non-profit world. The Department of Historic Preservation also offers a graduate certificate in Historic Preservation, which is comprised of two required courses (HP 601 and HP 602), and two additional historic preservation electives.

Admission Requirements

- 1) A baccalaureate degree from an accredited college or university
- 2) A writing sample or demonstration of ability in drawing, drafting, and/or photography
- 3) Three letters of recommendation and a personal essay
- 4) A minimum 2.75 GPA at the undergraduate level
- 5) A minimum of 3.0 GPA for any previous work at the graduate level

Degree Requirements

The MHP program requires successful completion of 48 credit hours, which includes a core, electives, and the successful defense of a final Master's project.

Core:

Students must complete all courses

- HP 601 INTRODUCTION TO HISTORIC PRESERVATION (3)
- HP 602 HISTORIC PRESERVATION LAW (3)
- HP 610 AMERICAN ARCHITECTURE I (3)
- HP 611 AMERICAN ARCHITECTURE II (3)
- HP 612 DOCUMENTATION OF HISTORIC BUILDINGS AND SITES (3)
- HP 613 HISTORICAL STRUCTURAL SYSTEMS AND BUILDING MATERIALS (3)
- HP 614 DOCUMENTATION OF HISTORIC BUILDINGS AND SITES II (3)
- HP 616 HISTORIC PRESERVATION AND DESIGN (3)
- HP 617 HISTORIC PRESERVATION PLANNING (3)
- HP 798 RESEARCH DESIGN (3)
- HP 799 MASTER'S PROJECT (2@3, 6 total)

Electives:

Students are required to take 12 or more credits of electives. The electives may be taken from courses offered within the department, or they may be taken from the offerings of other departments across the university.

- Electives offered by the Department of Historic Preservation include:
- HP 501 SELECTED TOPICS IN HISTORIC PRESERVATION (SUBTITLE REQUIRED) (3)
- HP 510 CULTURAL LANDSCAPES AND HISTORIC PRESERVATION (3)
- HP 511 SUSTAINABLE DEVELOPMENT AND HERITAGE (3)
- HP 609 URBAN REVITALIZATION IN THE UNITED STATES (3)
- HP 615 AMERICAN SETTLEMENT PATTERNS: HISTORY OF LAND DEVELOPMENT (3)
- HP 670 RETHINKING PRESERVATION: ETHICS, PUBLIC POLICY, AND HERITAGE RESOURCES (3)
- HP 671 INTRODUCTION TO CULTURAL RESOURCE MANAGEMENT (3)
- HP 675 ARCHITECTURAL HISTORY FOR PRESERVATION PRACTICE (3)
- HP 676 FIELD METHODS IN HERITAGE CONSERVATION (3)
- HP 699 INTERNSHIP (1-6)
- HP 718 ADAPTIVE REUSE (3)
- HP 720 CASE STUDIES IN PRESERVATION (3)
- HP 721 INTERPRETATION OF HISTORIC BUILDINGS AND SITES (3)
- HP 724 ADVANCED HISTORICAL STRUCTURAL SYSTEMS AND BUILDING MATERIALS CONSERVATION (3)
- HP 748 MASTER'S PROJECT RESEARCH (0)
- HP 750 ARCHITECTURE DESIGN STUDIO (3)
- HP 772 SEMINAR IN HISTORIC PRESERVATION: SUBTITLE REQUIRED (3)
- HP 785 INDEPENDENT STUDY IN HISTORIC PRESERVATION (3)

Master's project:

Students have two options for completing their Master's project.

Option 1 follows the format of a traditional academic thesis. It is an original, student-led project that identifies a research question relevant to the field of historic preservation, applies a research methodology appropriate for the question asked, develops a new dataset or examines existing datasets, and analyzes the data to arrive at a well-supported conclusion.

Option 2 is an independent professional project reflecting the type of work historic preservation practitioners are likely to execute in a professional environment. Examples of this type of project might include exceptionally well-researched and well-written nominations to the National Register of Historic Places, proposals for local historic districts that include resource inventories and design review guidelines, Cultural Landscape Reports and Historic Structure Reports that include resource inventories and management plans, and the like.

<https://design.uky.edu/historic-preservation/>

History, MA

The M.A. degree is available to students seeking a stand-alone (or terminal) M.A. and to students who are seeking an M.A./Ph.D. Many M.A. graduates pursue careers in high school teaching, government service, libraries and archives, and private employment. Others continue on to the Ph.D. program or to doctoral study at other institutions.

Admission Requirements

Students applying for the MA degree program should submit evidence of extensive undergraduate preparation in History (preferably an undergraduate major). Applicants who wish to be considered for financial assistance and fellowships should review the department's web-site for specific deadlines. For additional information on application procedures and requirements, consult:
<https://history.as.uky.edu/history-graduate-program/applying-program>

Degree Requirements

MA Plan A (Thesis)

Credit requirements:

- 30 semester credit hours of coursework and a thesis with a standing of 3.0 (B) or better

Course requirements:

- HIS 606 HISTORICAL CRITICISM
- At least 15 credit hours at the 600 or 700 level (not including 768 hours)
- At least one 700-level research seminar
- At least 16 credit hours must be from Department of History courses (not including 768 hours)

- At least 16 credit hours of regularly scheduled courses (excludes the following course types: independent study, research, residency, practicum)
- A maximum of 6 hours of HIS 768 is allowed
- Students must write an MA thesis under the supervision of a MA advisor. The thesis must be an original work of scholarship and 60-100 pages in length.
- Students must defend the MA thesis in an oral examination before an advisory committee that consists of the student's advisor and two other faculty members. The exam will focus on the thesis, but the student may also be examined over the MA coursework.
- Meet the MA foreign language requirement as outlined in the Graduate School Bulletin and any additional requirements specified by the student's field.

MA Plan B (Non-Thesis) -- Plan B can be satisfied by one of the following two options:

Credit requirements:

- 30 semester credit hours of coursework and an essay with a standing of 3.0 (B) or better

Course requirements:

- HIS 606 HISTORICAL CRITICISM
- At least 21 credit hours at the 600 or 700 level
- Two 700-level research seminars
- At least 21 credit hours of regularly scheduled courses (excludes the following course types: independent study, research, residency, practicum)
- At least 20 credit hours must be from Department of History courses
- Students must write an MA essay under the supervision of a MA advisor. The thesis must be an original work of scholarship and 45-60 pages in length.
- Students must defend the MA essay in an oral examination before an advisory committee that consists of the student's advisor and two other faculty members. The exam will focus on the essay, but the student may also be examined over the MA coursework.
- Meet the MA foreign language requirement as outlined in the Graduate School Bulletin and any additional requirements specified by the student's field.

OR

Credit requirements:

- 36 semester credit hours of coursework and 3 papers with a standing of 3.0 (B) or better

Course requirements:

- HIS 606 HISTORICAL CRITICISM
- At least 24 credit hours at the 600 or 700 level
- Two 700-level research seminars
- At least 24 credit hours of regularly scheduled courses (excludes the following course types: independent study, research, residency, practicum)
- At least 24 credit hours must be from Department of History courses
- The student must submit three papers to an advisory committee. These papers must have been written for graduate credit in the Department of History's MA program. Two of the papers must be research papers that demonstrate competence in historical research and writing, and the third should be a historiographical review essay of at least twenty pages. The student will participate in an oral examination before the advisory committee that is based on these papers.

- Meet the MA foreign language requirement as outlined in the Graduate School Bulletin and any additional requirements specified by the student's field.

For more information about the History MA program and its requirements, see: <https://history.as.uky.edu/history-graduate-program/ma-program>

Information Communication Technology, MS

The online graduate program in Information Communication Technology (ICT) is dedicated to advancing and evolving how users interact and manage communication, information, and technology. Students in the program will learn to effectively research, apply, use, and manage technology when solving problems specifically related to information and communication, bridging the gap between the business and technology side of interactions. The program's core courses allow students to obtain the graduate skills that will serve them well in management roles and prepare them to tackle the technology trends of today. Specialty tracks in the program allow students to take a variety of electives and special topics classes in order to give them more in-depth information on some of the many career pathways ICT can offer.

Admission Requirements

- Transcripts showing a Bachelor's degree from an accredited four-year institution with an undergraduate GPA of 3.0 or higher
- Personal Statement explaining (i) why the applicant is seeking admission to the ICT master's program at the University of Kentucky, and (ii) why they are interested in a career as an ICT professional (200-300 words)
- Resume or CV
- Three letters of recommendation

Degree Requirements

Fifteen credits of core coursework:

- ICT 600 INFORMATION COMMUNICATION TECHNOLOGY IN SOCIETY
- ICT 610 ICT RESEARCH METHODS
- ICT 650 INTRODUCTION TO LEADERSHIP IN INFORMATION PROFESSIONS
- ICT 661 INTRODUCTION TO DATA SCIENCE OR ICT 662 DATA ANALYSIS AND VISUALIZATION
- ICT 696 ICT PRACTICUM

Students complete an additional 21 credit hours of electives, completing the program with a total of 36 credit hours. All ICT master's courses are online, asynchronous courses.

A grade point average of 3.00 (B) must be maintained. Failure to do so results in academic probation and will result in dismissal, if, in the prescribed time, the grade point average is not raised to 3.00 or higher. A student who earns a third C (or lower) grade is dismissed from the program even if the student has earned the required minimum 3.00 grade point average.

The MSICT website can be found here: [Online Master's in Information Communication Technology | School of Information Science \(uky.edu\)](https://www.uky.edu/online/master/information-communication-technology/).

Interested applicants might also review our Student Handbook.

Integrated Plant and Soil Sciences, MS

The interdepartmental graduate program in Integrated Plant and Soil Sciences offers graduate work leading to the Master of Science (MS) degree with specialization in Crop Science (including weed science and forages), Environmental Science and Ecosystem Ecology (including ecotoxicology, biogeochemistry, environmental chemistry, and ecosystem modeling), Horticultural Science, Plant Biology (including biochemistry, molecular biology, physiology, and seed biology), and Soil Science (biogeochemistry, chemistry, fertility, microbiology, pedology, physics, and rhizosphere science).

With their degree, students will acquire an extensive knowledge of the sciences and technology that support research, education, and technological innovation in plant, soil, and environmental sciences. They will be conversant with the literature, current concepts, and experimental and analytical methods that support research, teaching, and technological innovation in plant, soil, and environmental sciences, and in their application to agriculture and the environment. They will develop skills in critical and analytical thinking and in multiple forms of communication that may be applied to research, education, industry, government, and public service. They will have acquired those elements of professionalism necessary for rewarding and developing careers in plant, soil, and environmental sciences in research, education, production agriculture, agribusiness, government, and public service.

Graduate faculty belong to the Departments of Forestry and Natural Resources (<https://forestry.ca.uky.edu/>), Horticulture (<https://www.uky.edu/hort/>), and Plant and Soil Sciences (<https://pss.ca.uky.edu/>) in the College of Agriculture, Food, and Environment

Financial aid and the research interests of participating faculty can be found on the websites of the participating departments.

Admission Requirements

- All students with strong training in science, including but not limited to baccalaureate degrees in agronomy, biology, chemistry, and horticulture are encouraged to apply.
- Admission to the IPSS Program is competitive and based on the applicant's undergraduate and graduate records, performance on standardized exams if submitted, and letters of recommendation.
- Applicants must have an identified research advisor prior to admission to the program.

- It is expected that applicants will meet the minimum standards established by the University of Kentucky Graduate School.
- Applicants will automatically be considered for departmental research assistantships, which are awarded on a competitive basis.

Degree Requirements

The MS in IPSS is available in two options

- Plan A: 30 credits, which can include up to 6 credits of thesis research, plus a Master's thesis.
- Plan B: 30 credits, plus a Master's project
- In both plans a minimum of 15 credit hours must be at the 600-level or above, and 20 hours must be in organized courses.
 - All students will create a discipline-specific committee (consistent with Graduate School Requirements - 3 members for the MS program), and an individualized program of study within one year
 - Satisfy basic Graduate School requirements for residency, examination, and good standing.
 - Have an overall GPA of 3.0 or better to complete the MS degree and pass a final examination.
 - Plan A students must present an exit seminar and submit an approved thesis.

Required courses include IPS 610, IPS 625, PLS 772 , and at least one graduate level statistics course. Additional coursework may be required by the student's thesis or advisory committee.

Graduate students in IPSS have flexibility in designing course work to suit individual goals, but are expected to demonstrate competence in basic areas of plant and soil science and excellence in their chosen area of specialization.

General information on electives and potential courses can be found at <https://ipss.ca.uky.edu/>

Incoming students are informed of the graduate-school and program-specific academic policies at an orientation held before classes begin each fall. A handbook is also on the IPSS website.

Interdisciplinary Early Childhood Education, MSEDU

The IECE Master of Education program may be completed as an entirely online program, an entirely on-campus program, or as a hybrid program in which a combination of on-campus and online courses are taken. Students completing the program online will enroll in course sections designated for distance students, and students completing the program on-campus will enroll in course sections designated for on-campus students. Both on-campus and online students receive the same content and jointly attend class in technology-enhanced classrooms (i.e., online students participate in synchronous courses through Zoom technology).

The IECE Master of Education program allows students to complete the program with or without conducting a Thesis. Students choosing to conduct a Thesis will complete 30 credit hours. Students choosing not to conduct a Thesis will complete 36 credit hours and present a Capstone Project to program faculty. It is

recommended that students discuss Thesis and non-Thesis options with program faculty on an individual basis to determine an appropriate option for completing the IECE Master of Education program.

Admission Requirements

- Transcripts from all higher education institutions attended
- TOEFL or IELTS Scores for all applicants whose native language is not English
- Curriculum Vitae
- Philosophy of Education and Goals Statement
- Three Letters of Recommendation

Degree Requirements

Total credit hours

- 30 credit hours (thesis option)
- 36 credit hours (nonthesis option)

Core requirements

- IEC 620 ASSESSMENT IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION
- IEC 621 ISSUES IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION
- IEC 623 ADVANCED PRACTICUM: INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION
- IEC 710 ADVANCED INSTRUCTIONAL METHODS IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION
- IEC 659 ADVANCED CHILD DEVELOPMENT

Electives

Courses should be selected in consultation with advisor from an approved menu of leadership courses.

- Administration and Program Development
- Curriculum Leadership and Technical Assistance

- Policy and Advocacy
- Higher Education and Research

<https://education.uky.edu/edsrc/iece/med>

Interiors: Planning/Strategy/Design, MAIND

The graduate program in the School of Interiors leads to a post-professional Master of Arts in Interiors: Planning/Strategy/Design. Students undertake a combination of course work, independent study, and research experience to develop a course of study designed to meet each student's career interests. Courses from within and outside the discipline cultivate interdisciplinary design thinking. Using design-related scholarship/research and creative approaches, students engage in an investigative process leading to an area of design specialization. Each student works with an advising committee in the selection of a written thesis or a design thesis project option and the appropriate courses at the 500, 600, and 700 levels. Applicants that have an undergraduate degree in interior design or a related professional subject matter normally complete the program in two years. Supplementary course work may be required of applicants without professional undergraduate interior design degrees.

Admission Requirements

Potential graduate students must:

1. Apply and be accepted to the Graduate School.
2. Have been granted a baccalaureate degree by an accredited institution with a minimum 3.0 GPA on a 4.0 scale (2.75-3.0 GPA will be considered in relation to other credentials).
3. Have taken the Graduate Record Examination (GRE). For a non-English speaking student, a TOEFL score of 550 or above is required (or a score of 213 on the computer version of TOEFL).
4. After admittance to the Graduate School, apply and be accepted by the School of Interiors

To be reviewed by the school, apply to the graduate program in the School of Interiors through the portal provided by the Graduate School. As part of your application, students will write a personal statement articulating why they wish to study interiors, including career goal aspirations. Additionally, three letters of recommendation regarding academic ability must be included. Students must submit a portfolio to be reviewed and evaluated by a faculty committee. The portfolio may be submitted digitally. If you would like further information on the program, contact the Director.

Degree Requirements

Students undertake the Master of Arts in Interiors with either a Plan A and Plan B option. The thesis option (Plan A) requires 24 hours of course work, six hours of Master's residence credit, and a written thesis with a research emphasis. Plan B requires completion of 30 credit hours, including six hours of ID 700, in which a

student develops a design thesis project that engages in innovative problem-solving focusing on the student's area of specialization. A common core of twelve hours, comprised of ID 650, ID 655, and ID 659, is required of all students. Students complete twelve credits of additional course work in the area of concentration. Students must successfully complete a final examination in the form of a thesis defense, which is required for graduation.

Kinesiology and Health Promotion, MS

The master's program is designed to provide a high-quality graduate program for students who desire advanced study to enhance their professional knowledge and skills as well as for students who complete the master's degree as an intermediate step toward doctoral work. Students can select from a variety of specializations (Biomechanics, Exercise Physiology, Health Promotion, Physical Education, Coaching, and Sport Leadership) to meet their interest areas and career goals as described below.

The objective of the program is to prepare the student to:

- permit an in-depth study of a specialized content area within the field;
- effectively locate, analyze, and use significant elements of the professional literature and research materials;
- acquire a knowledge of sound research procedures; and
- engage in clinical, applied, and/or experiential learning opportunities to enhance students' professional development

The course work and program experiences are designed to enable graduate students in the Department of Kinesiology and Health Promotion to demonstrate:

1. Educational, professional and technological standards.
2. Literacy skills for life-long professional learning.
3. Current, factual, and functional content knowledge.
4. Functional skills and dispositions of professionals.
5. Skills for research and reflection for learning and leading.
6. Skills to plan, implement, and evaluate basic and applied research.
7. Skills to analyze and interpret research data.

To accomplish these outcomes, students are introduced to a combination of departmental course offerings, supporting electives, and a required core of statistics and research methods. Students work with their advisor to tailor course work and additional opportunities to their interests areas and career goals. Master's candidates with the approval of the department may select either a thesis (Plan A) or a non-thesis option (Plan B).

BIOMECHANICS SPECIALIZATION

The specialization in human biomechanics is a multidisciplinary program working together with Kinesiology, Health Sciences, and Engineering. The program helps address critical problems related but not limited to sport, exercise, health, aging, space science and ergonomics.

EXERCISE PHYSIOLOGY SPECIALIZATION

The specialization in Exercise Physiology offers a robust science-based curriculum to prepare students for a variety of careers in research, clinical, and practitioner-based settings. The curriculum offers numerous clinical, applied, and experiential learning opportunities to enhance students' professional development. Students may pursue research or internship-based tracks to effectively prepare for their professional endeavors.

HEALTH PROMOTION SPECIALIZATION

The specialization in Health Promotion is for students passionate about health and wellness who want to make a positive impact on other people's lives. With a flexible distance learning degree option, students will gain advanced professional skills, build professional relationships with top alumni, and engage with internationally recognized faculty in health promotion. The curriculum offers numerous applied and experiential learning opportunities to enhance students' professional development. Students may pursue research or internship-based tracks to effectively prepare for their professional endeavors. Students will also be prepared to sit for the Certified Health Education Specialist (CHES) examination, a professional credential widely respected in the health promotion field.

SPORT LEADERSHIP SPECIALIZATION

The Sport Leadership specialization focuses on preparing leaders in all sport, recreation, and fitness related fields. The goal is to help students develop the knowledge and skills to be more effective practitioners and researchers in the field of leadership.

PHYSICAL EDUCATION SPECIALIZATION

The Physical Education (Teaching) specialization focuses on connecting theory of effective teaching processes and the practice of effective teaching in physical education. In addition to learning about appropriate teaching methods, you learn very valuable experiences in the field. Please note: This degree does not lead to teacher certification.

COACHING SPECIALIZATION

The master's degree with a specialization in coaching is directed primarily at preparing graduate students to be coaches at the elementary school, middle school, high school, and collegiate levels. The aim is to help teaching and coaching master's students develop the knowledge and skills to be more effective practitioners and researchers in the field of coaching.

Admission Requirements

Applicants must meet the Graduate School requirements set forth in the first part of this Bulletin as well as those set forth for each specialty area. Additional information can be found on the departmental website and is briefly summarized below: <https://education.uky.edu/khp/grad/> Specific prerequisites for graduate study at the master's level are determined by a committee of the departmental graduate faculty based upon area of emphasis.

- Priority deadline for upcoming academic year: February 1
- Fall: July 15 (international students: April 15)
- Spring: December 1 (international students: August 22)

Please note: all of our specializations are slightly different so information on each is included below.

BIOMECHANICS SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: not required A total of three letters of recommendation are required.
- A minimum of 2 out of 3 of these letters must be submitted by someone with a terminal degree (i.e. Ph.D., M.D., Ed.D., etc.) and must be from a person with direct knowledge of the applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

EXERCISE PHYSIOLOGY SPECIALIZATION

- Students must contact a program faculty member prior to applying to the program. It is important to identify a faculty member for which the student has similar research/scholarly interests.
- Personal Statement (must indicate a primary and secondary program faculty member)
- GRE Requirements: Not required
- GPA requirement: 3.2 or higher

HEALTH PROMOTION SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: Not required.
- GPA requirement: 2.75 or higher
- Resume/CV
- A professional goal statement describing the applicant's professional background, motivations for seeking a graduate education in this specialty area, why the current program is an ideal fit, and career/research aspirations.
- Three letters of recommendation: At least two must be from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

SPORT LEADERSHIP SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: not required.
- GPA requirement: 2.75 or higher
- Three letters of recommendation

PHYSICAL EDUCATION SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: Not required.
- GPA requirement: 2.75 or higher
- Three letters of recommendation

COACHING SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: Not required.
- GPA requirement: 2.75 or higher
- Three letters of recommendation

Degree Requirements

Please note: all of our specializations are slightly different so information on each is included below.

BIOMECHANICS SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the biomechanics specialization. A minimum of 30 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Methods (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or STA 580 / CPH 580 or EPE 558 / EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (12 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Thesis (6 hours)

Plan B

- Research Methods (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or STA 580 / CPH 580 or EPE 558 / EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)

- Area of concentration (15 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Independent research/study (3 hours)

EXERCISE PHYSIOLOGY SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the exercise physiology specialization. A minimum of 30 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557 / EDP 557 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (12 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Thesis (6 hours)

Plan B

- Research Methods (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557 / EDP 557 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (15 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Independent research/study (3 hours)

HEALTH PROMOTION SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the health promotion specialization. A minimum of 33 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 569, STA 570, or EPE 558 / EDP 558 or PSY 610 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (9 hours)
 - KHP 674 FOUNDATIONS OF HEALTH PROMOTION (3)
 - KHP 673 HEALTH PROMOTION AND BEHAVIOR CHANGE (3)
 - KHP 677 PLANNING HEALTH PROMOTION PROGRAMS (3)
- Disciplinary Support/Supporting Electives (12 hours)
- Thesis (6 hours)

Plan B

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 569, STA 570, or EPE 558 / EDP 558 or PSY 610 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (9 hours)
 - KHP 674 FOUNDATIONS OF HEALTH PROMOTION (3)
 - KHP 673 HEALTH PROMOTION AND BEHAVIOR CHANGE (3)
 - KHP 677 PLANNING HEALTH PROMOTION PROGRAMS (3)
- Disciplinary Support/Supporting Electives (15 hours)
- Internship (3 hours)
- KHP 679 HEALTH PROMOTION & HEALTH COACHING INTERNSHIP (3)

SPORT LEADERSHIP SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the sport leadership specialization. A minimum of 30 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (12 hours)
 - KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT (3 hours)
 - KHP 683 LEADERSHIP, THEORY, AND PRACTICE IN SPORT AND FITNESS ORGANIZATIONS (3 hours)
 - KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3 hours)
 - KHP 685 SUPERVISION OF SPORT AND FITNESS PERSONNEL (3 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Thesis (6 hours)

Plan B

- Research Methods (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (15 hours)
 - KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT (3 hours)
 - KHP 683 LEADERSHIP, THEORY, AND PRACTICE IN SPORT AND FITNESS ORGANIZATIONS (3 hours)
 - KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3 hours)
 - KHP 685 SUPERVISION OF SPORT AND FITNESS PERSONNEL (3 hours)
 - KHP 688 EVENT MANAGEMENT IN SPORT (3 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Internship (3 hours)

- KHP 687 PRACTICUM IN SPORT MANAGEMENT (3 hours)

PHYSICAL EDUCATION SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the teaching specialization. A minimum of 30 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (6 hours)
 - KHP 601 TEACHING EFFECTIVENESS AND LEADERSHIP IN KINESIOLOGY AND HEALTH EDUCATION (3 hours)
 - KHP 602 PROMOTING PHYSICAL ACTIVITY FOR YOUTH (3 hours)
- Disciplinary Support/Supporting Electives (12 hours)
- Thesis (6 hours)

Plan B

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (6 hours)
 - KHP 601 TEACHING EFFECTIVENESS AND LEADERSHIP IN KINESIOLOGY AND HEALTH EDUCATION (3 hours)
 - KHP 602 PROMOTING PHYSICAL ACTIVITY FOR YOUTH (3 hours)
- Disciplinary Support/Supporting Electives (18 hours)

COACHING SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the coaching specialization. A minimum of 30 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (9 hours)
 - KHP 601 TEACHING EFFECTIVENESS AND LEADERSHIP IN KINESIOLOGY AND HEALTH EDUCATION (3 hours)
 - KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT (3 hours)

- KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3 hours)
- Disciplinary Support/Supporting Electives (9 hours)
- Thesis (6 hours)

Plan B

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
 - STA 570 or EPE 557, EPE 558 / EDP 557, EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (9 hours)
 - KHP 601 TEACHING EFFECTIVENESS AND LEADERSHIP IN KINESIOLOGY AND HEALTH EDUCATION (3 hours)
 - KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT (3 hours)
 - KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3 hours)
- Disciplinary Support/Supporting Electives (15 hours)

Library Science, MSLS

The MSLS program has continuing accreditation from the American Library Association and is the only ALA-accredited Library Science program in Kentucky. Offered fully online, the program prepares students to work as information professionals in a variety of settings like medical, public, academic, and school libraries.

Academic concentrations within the MSLS program include academic libraries, health information, information technology and systems, public libraries, school libraries, youth services and literature, and a generalist option.

Admission Requirements

The MSLS program invites applicants to apply for the fall, spring, and summer semesters.

Admission to the program requires:

- a bachelor's degree from an accredited institution
- a grade point average of 3.0 or higher (4.0 scale) on any prior undergraduate or graduate work
- submission of a personal statement and current resumé/CV
- three letters of recommendation from academic and/or professional references

Degree Requirements

To earn the MSLS, students must complete a total of 36 credit hours, successfully pass the exit requirement, and have a GPA of 3.0 or higher.

Within the 36 hours, students must complete 4 required core courses (12 hours), 1 technology course (3 hours), and 7 elective courses (21 hours). The required core courses are as follows:

- LIS 600 INFORMATION IN SOCIETY
- LIS 601 INFORMATION SEARCH
- LIS 602 KNOWLEDGE ORGANIZATION
- LIS 603 MANAGEMENT IN INFORMATION ORGANIZATIONS

Elective offerings span across the concentration areas. With prior permission of the Director of Graduate Studies, students may also elect to complete up to 6 hours of coursework outside of Library Science to count toward their degree.

Student in the school libraries concentration may have more restricted election options as they fulfill the requirement for school library media certification and change of rank.

Linguistic Theory and Typology, MA

The MA in Linguistic Theory & Typology (MALTT) offers training by a world class faculty in theoretical frameworks for approaching descriptive, historical, and sociolinguistic data with a special focus on how grammatical features are distributed across the world's languages. Emphasis is given to language modeling and analysis through computational and quantitative methods. In addition to providing invaluable intellectual preparation for doctoral studies in linguistics, the MALTT program prepares students for careers in high-tech industries, text-based consultancies in law and medicine, and jobs in government agencies.

Admission Requirements

We welcome students with a BA/BS major or minor in Linguistics. Students with degrees in cognate disciplines are also welcome to apply but will have to take an introductory course in linguistics prior to enrollment. We run such a course as a summer online course. Minimum GPA is 3.3. Funded positions are available (TA, RA) on a competitive basis.

Degree Requirements

Students take 30 hours of LIN course work and complete a thesis. The course work must include at least 15 hours taken at the 600 or 700 level. Mandatory courses are LIN 601 RESEARCH METHODS IN LINGUISTICS and LIN 701 RESEARCH SEM IN LIN THEORY AND TYPOLOGY. All students must take a syntax course (LIN 512, LIN 622 or LIN 712) and a phonology course (LIN 515, LIN 615 or LIN 715). Students must also take a course in either morphology (LIN 505, LIN 605, LIN 705) or a course in phonetics (LIN 500, LIN 600 or LIN 700). The thesis component consists of a written research project and oral examination. The thesis must be approved by a committee of three faculty.

Manufacturing Systems Engineering, MSMSYE

Admission Requirements

To be considered for admission to the Manufacturing Systems Engineering MS program, students are required to have:

- A GPA of at least 2.8 out of 4.0 scale (exceptions may be made by the admissions committee if persuasive evidence of applicant's potential is presented) with:
 - A BS degree in engineering or equivalent, or
 - A BS in a physical science or a related area will also be considered but may require additional preparatory coursework.
- GRE scores are NOT required for admission to the Manufacturing Systems Engineering MS program. However, applicants must note that GRE scores must be submitted if they are interested in being considered for any graduate fellowships.
- TOEFL or IELTS scores for all international students (except those with a degree from an accredited U.S. institution). Currently, for admission:
 - The minimum acceptable total TOEFL-iTB score is 79. This is considered equivalent to our currently acceptable minimum scores of 550 on the paper-based and 213 on the computer-based tests.
 - The minimum acceptable IELTS overall band score is 6.5.

Degree Requirements

MSMSYE Plan A: Thesis Option

- Credit Requirements:
 - The thesis plan requires thirty (30) credit hours of coursework and a thesis.
- Course Requirements:
 - Four core courses (MFS 505, MFS 605, MFS 606, MFS 613) must be completed. The remaining six courses can be selected from the list of other MFS courses as well as non-MFS prefix courses. Students can take up to six credit hours of MS residency (MFS 768) to satisfy the credit requirements.
 - At least two thirds of the courses must be from the MFS program (MFS prefix).
 - At least 15 credit hours must be earned from courses at the 600-level or above.
 - A maximum of 6 credit hours of MFS 780 may be included.

MSMSYE Plan B: Non-Thesis Option

- Credit Requirements:
 - The non-thesis option is reserved for students who have significant experience in a manufacturing environment, where completion of a thesis would be less beneficial than the additional course work involved in Plan B. The non-thesis option requires thirty hours (30) of course work.
- Course Requirements:
 - Four core courses (MFS 505, MFS 605, MFS 606, MFS 613) must be completed. The remaining courses can be selected from the list of other MFS courses as well as non-MFS prefix courses.
 - At least two thirds of the courses must be from the MFS program (MFS prefix).
 - At least 15 credit hours must be earned from courses at the 600-level or above.
 - A maximum of 6 credit hours of MFS 780 may be included.

Marketing, MS

The Master of Science in Marketing is a one-year graduate program designed to provide students with in-depth course work in key marketing topics. This program will include core content focused on the areas of strategic marketing, marketing research, new product development, personal selling and sales management, consumer insights, marketing analytics and data visualization, corporate social responsibility marketing communications, digital marketing, and branding.

Admission Requirements

Applicant must meet requirements of the Graduate School for admission. Students will need a GMAT/GRE score as part of the application.

Degree Requirements

This is a 30 credit hour non-thesis option MS program.

Core requirements including course information

MKT 600 MARKETING MANAGEMENT

MKT 601 MARKETING RESEARCH

MKT 610 CONSUMER INSIGHTS AND ANALYSIS

MKT 611 NEW PRODUCT DEVELOPMENT

MKT 615 MARKETING COMMUNICATIONS & SOCIAL MEDIA

MKT 620 DIGITAL MARKETING & ANALYTICS

MKT 622 PERSONAL SELLING & SALES MANAGEMENT

MKT 625 BRANDING

MKT 629 MARKETING ANALYTICS & DATA VISUALIZATION

MKT 651 CORPORATE SOCIAL RESPONSIBILITY

There are no elective courses.

- [Link to program website \(optional\)](#)

<https://gatton.uky.edu/programs/masters/master-science-marketing>

Materials Science and Engineering, MSMSCE

The Department of Chemical and Materials Engineering offers programs leading to the M.S. and Ph.D. degrees in Materials Science and Engineering, with research specialization in the following areas:

- Ceramics
- Electronic Materials
- Metals and Alloys
- Micro-Materials
- Nanomaterials
- Polymers and Composites
- Surfaces and Interfaces
- Thin Film

Admission Requirements

Admission to the M.S. degree program is on a competitive basis, and financial assistance is available through teaching and research assistantships, as well as a limited number of fellowships. Applicants should have a minimum grade point average of 3.0/4.0 on all undergraduate work. Persons with backgrounds in any physical science or engineering discipline are encouraged to apply, as each applicant's qualifications are reviewed individually. Minimum requirements for admission include a bachelor's degree and four semesters of university-level calculus, calculus-based physics, and chemistry. Please note that meeting the minimum requirements does not guarantee admission, as acceptance is on a competitive and space-available basis.

Degree Requirements

The master's degree is offered under Plan A (thesis option) and Plan B (non-thesis option). Candidates for the degree under Plan A must complete a minimum of 30 hours of graduate courses to include, if desired, no more than 6 credit hours of MSE 768 and submit and defend a thesis that demonstrates research ability. The required course work includes the materials science core (MSE 632 MSE 635 MSE 650 MSE 781) as well as appropriate electives selected in consultation with the Director of Graduate Studies. In certain exceptional cases (as determined by the faculty), a non-thesis M.S. may be undertaken (Plan B). The non-thesis option requires 30 hours of course work that includes the materials science core, and is only available to those students with prior research or industrial experience. For both Plan A and Plan B, at least half of all graduate course work must be at the 600 level or above.

Mathematics, MA

The Master of Arts degree, featuring a core program that emphasizes mathematical structures, is designed for prospective community college teachers and for students contemplating studies at the Ph.D. level.

Admission Requirements

The MA program in Mathematics does not have formal admission requirements other than those of the Graduate School. Admission, however, is competitive. The admissions committee reviews transcripts, letters of recommendation, and the candidate's personal statement, seeking evidence of mastery in proof-based mathematics (such as analysis, topology, and modern algebra), the ability to craft mathematical proofs, and general mathematical maturity.

Degree Requirements

- Students must complete 30 hours of graduate work in Mathematics and related areas.
- Of these 30 hours, students must have:
 - At least 20 hours in Mathematics courses,
 - At least 15 hours at the 600 level or above, with
 - At least 12 hours in Mathematics courses at the 600 level or above.
- There is substantial flexibility in the courses a student may take for the MA degree.
- Students may select from Plan A (thesis option) or Plan B (non-thesis option).

Mathematics, MS

The Master of Science degree, through an emphasis on the applications of mathematics and the acquisition of computational skills, focuses on careers in business, industry, and government.

Admission Requirements

The MS program in Mathematics does not have formal admission requirements other than those of the Graduate School. Admission, however, is competitive. The admissions committee reviews transcripts, letters of recommendation, and the candidate's personal statement, seeking evidence of mastery in proof-based mathematics (such as analysis, topology, and modern algebra), the ability to craft mathematical proofs, and general mathematical maturity.

Degree Requirements

- Students must complete 30 hours of graduate work in Mathematics and related areas.
- Of these 30 hours, students must have:
 - At least 20 hours in Mathematics courses,
 - At least 15 hours at the 600 level or above, with
 - At least 12 hours in Mathematics courses at the 600 level or above.
- There is substantial flexibility in the courses a student may take for the MS degree.
- Students may select from Plan A (thesis option) or Plan B (non-thesis option).

Mechanical Engineering, MSMEE

Admission Requirements

Applicants seeking admission to the graduate program in the Department of Mechanical Engineering (ME) as regular students must have an awarded baccalaureate degree. Admission to the ME graduate programs normally requires a Bachelor's degree in engineering (not necessarily in Mechanical Engineering) and a grade point average (GPA) of 3.0/4.0 or 70% on all graduate and undergraduate work, as well as Graduate Record Examination (GRE) scores of at least 300 (new scoring system) for the combined Quantitative and Verbal sections (with at least 160 on the quantitative section) and 3.5 for the Analytical section. An undergraduate degree in Mathematics, Chemistry or Physics combined with a strong interest in engineering topics may be suitable preparation when certain required undergraduate courses are taken (contact program for further details). Exceptions to these requirements may be made by the Director of Graduate Studies if other persuasive evidence of the student's potential for success is available.

Degree Requirements

MSMEE Option A (Thesis Plan)

Credit Requirements:

- MSMEE Option A requires a minimum of 30 semester hours of coursework and a thesis.
- Course Requirements:
- 30 credit hours required for a MS degree, where 6 credit hours of MS residency (ME 768) is suggested. Research courses (including ME 790) do not count toward the required credit hours.

- At least 6 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list, where at least 3 credit hours are from courses with prefixes MA or STA. See Appendix F of the ME Graduate Handbook for further information.
- A maximum of 6 credit hours of ME 780 (Independent Study), and a maximum of 6 credit hours of ME 768 may be included.
- Students are required to register for ME 799 MECHANICAL ENGINEERING GRADUATE SEMINAR 2 times during their degree.

MSMEE Option B (Non-Thesis Plan)

Credit Requirements:

- MSMEE Option B requires a minimum of 30 semester hours of coursework.
- Course Requirements:
- 30 credit hours required for a MS degree. MS residency (ME 768) and research courses (including ME 790) do not count toward the required credit hours.
- At least 6 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list, where at least 3 credit hours are from courses with prefixes MA or STA. See Appendix F of the ME Graduate Handbook for further information.
- A maximum of 6 credit hours of ME 780 (Independent Study) may be included.
- Students are required to register for ME 799 MECHANICAL ENGINEERING GRADUATE SEMINAR 2 times during their degree.

Medical Sciences, MS

The Master of Science in Medical Sciences (MSMS) is a broad interdisciplinary degree program housed in the College of Medicine. Participating Departments and Centers include Behavioral Sciences; Pharmacology and Nutritional Sciences; Toxicology and Cancer Biology; Microbiology, Immunology and Molecular Genetics; Molecular and Cellular Biochemistry; Neuroscience; and Physiology. The MSMS may be used as a stand-alone degree by students seeking career enhancement in fields such as basic biomedical research, the pharmaceutical industry, or the health science professions; by students seeking academic credentials in the biomedical sciences prior to applying for medical school or other health related professional degree programs; or by students seeking to enhance their knowledge base prior to choosing a career direction. The MSMS degree may also provide supplemental or joint training for practitioners in the health professions (e.g., physicians, dentists, pharmacists), or students in professional health science programs based on individual career goals and research training needs. Finally, the MSMS program provides students with the opportunity to opt out of a Ph.D. program and receive a master's degree.

Admission Requirements

- A baccalaureate degree from a fully accredited institution of higher learning.
- A minimum undergraduate grade point average of 2.9 and graduate GPA of 3.0.

- An average GRE score on the verbal, quantitative and analytical sections greater than the 40th percentile.
- The MSMS program also accepts MCAT or DAT scores in lieu of the GRE to serve as the entrance exam. In such cases, it is recommended that applicants have a minimum score of 497 on the MCAT, or an academic and science minimal average of 16 on the DAT.
- Three letters of recommendation
- Personal Statement
- For the best chances of gaining admission to the program, an applicant should have one year of general or inorganic chemistry, one year of organic chemistry (or one semester of organic chemistry and one semester of biochemistry) and at least one year of biology.

Degree Requirements

Students entering the MS in Medical Sciences program can choose either a thesis option (Plan A), requiring 30 hours of graduate level coursework, including six hours of research, or a non-thesis option (Plan B), also requiring 30 hours of graduate level coursework, including three hours of research. Plan A requires a defense of the master's thesis while Plan B requires a final master's exam. Most students enrolling in the MS in Medical Sciences as a stand-alone degree utilize the Plan B platform.

The plan of study for the MSMS program consists of a ten (10) credit hour curriculum and a recommended course of study based on career tracks. The ten credit hour core curriculum consists of the following courses:

- IBS 602 MOLECULAR BIOLOGY AND GENETICS (3) OR IBS 603 CELL BIOLOGY AND SIGNALING (3)
- IBS 606 PHYSIOLOGICAL COMMUNICATION (3)
- IBS 611 PRACTICAL STATISTICS (2)
- Seminar - Please select one from the following list:
 - MI 772 SEMINAR IN MICROBIOLOGY (1)
 - ANA 600 SEMINAR IN ANATOMY (1)
 - TOX 770 TOXICOLOGY AND CANCER BIOLOGY SEMINAR (2)
 - PHA 770 SEMINAR IN PHARMACOLOGY (1)
 - PGY 774 GRADUATE SEMINAR IN PHYSIOLOGY (1)
- TOX 600 ETHICS IN SCIENTIFIC RESEARCH (1)

Recommended Elective Courses (representative list)

- ANA 417G FUNCTIONAL HUMAN NEUROANATOMY
- ANA 605/PGY 605 Neurobiology of CNS Injury and Repair
- BCH 401G FUNDAMENTALS OF BIOCHEMISTRY
- BCH 419G MOLECULAR BASIS OF HUMAN DISEASE
- IBS 601/BCH 607 Biomolecules and Metabolism
- MI 494G IMMUNOBIOLOGY
- MI 598 CLINICAL MICROBIOLOGY
- PGY 412G PRINCIPLES OF HUMAN PHYSIOLOGY
- PHA 621 PRINCIPLES OF DRUG ACTION
- PHA 622 MOLECULAR DRUG TARGETS & THERAPEUTICS

The Clinical and Translational Sciences (CTS) concentration is a pathway option for CTS students who are interested in earning their MS in Medical Sciences (MSMS) degree. Students accepted into the CTS program typically consist of fellows or residents who have completed a formal professional degree program

(e.g., MD, DMD, PharmD) with a rigorous basic biomedical sciences training that is identical or closely approximates the two basic science core courses in the MSMS program. Therefore, it is proposed that the two MSMS basic science core courses, IBS 602 and IBS 606 be waived. However, any CTS applicant who has not completed equivalent coursework will be required to enroll in and pass IBS 602 and IBS 606. In addition, all CTS students will be required to complete the two remaining MSMS core courses focusing on ethics in research (TOX 600), and a seminar class of their own choosing. CTS students who have completed a professional degree program (e.g., MD, DMD, PharmD) will not be required to submit any entrance exam scores (e.g., GRE, MCAT, DAT). Note: The CTS program is housed in the Department of Behavioral Sciences and it would be appropriate for CTS students to substitute BSC 534 and BSC 733 to meet the ethics and seminar course requirements in the MSMS program, respectively. CTS students will be required to complete BSC 731, BSC 732, and BSC 625 (or similar biostatistics course, such as STA 580). These requirements are aligned with the learning objectives of the CTS concentration. CTS students will then be required to complete the requisite number of hours and successfully pass a master's final exam to complete their MSMS degree. Both Plan A (thesis) and Plan B are available; 30 credits is required for each.

Link to program website <https://graduate.med.uky.edu/master-science-medical-sciences>

Mining Engineering, MSMIE

The programs leading to the degrees of Master of Science in Mining Engineering, Master of Mining Engineering and Doctor of Philosophy are offered through the Department of Mining Engineering. The objectives of these programs are to provide an advanced level of applied science for use in the mining industry and to offer specified topics for research specialization.

The Master of Science in Mining Engineering is a research-oriented degree appropriate for a career in problem solving, research, or technology development.

For the Master of Science in Mining Engineering, 24 credit hours of course work plus an acceptable thesis (Plan A) or 30 credits of course work and a report on one or more research topics (Plan B) are required to fulfill program requirements. Plan B Master of Science degrees will be reserved normally for students who have already demonstrated their ability to conduct and report on independent research.

The Doctor of Philosophy is the terminal degree in the subject and is normally required for a career in teaching and research

Admission Requirements

Enrollment in the Master of Science degree program is open to qualified applicants with an undergraduate degree in mining engineering or other engineering and science fields. A minimum cumulative grade point average of 2.8/4.0 from an accredited undergraduate program is required. Persons with undergraduate degrees in fields other than mining engineering are required to satisfy deficiencies in undergraduate mining engineering courses.

Applicants for admission must have a combined score on the verbal and quantitative portions of the Graduate Record Examination (GRE) in excess of 300. Scores on the analytical portion are also considered. Foreign applicants whose native language is other than English must take the Test of English as a Foreign Language (TOEFL) and achieve a score of at least 80 (internet based test) or 230 (computer based test) or (550 paper based test) is required before they can be admitted. Alternatively candidates should take the International English Language Testing System (IELTS) test and achieve a score of at least 6.5.

In addition to satisfying general Graduate School and College of Engineering admissions requirements, applicants for admission to the Master of Science and Ph.D. degree programs in Mining Engineering must have been awarded the Bachelor of Science degree prior to admission to the graduate degree status. Normally, it is expected that applicants will have graduated from an engineering program accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). For applicants from non-U.S. universities, from related but non-engineering disciplines, and from institutions that do not have accredited engineering programs, an assessment will be made of the comparability of educational background to that prescribed and appropriate remedial course work established as a provision for admission.

Degree Requirements

Master's plan A

A minimum of 24 semester hours of coursework plus 6 semester hours of residency credit (MNG 768), plus a thesis are required. In no case will independent work, taken as MNG 780 or MNG 790 and used for part of the thesis, be counted as part of the 24 hours of coursework. The thesis must be actively supervised by a member of the graduate faculty.

Master's plan B

A minimum of 30 credit hours of coursework plus one or two written reports are required. The report(s) should represent the total equivalent of approximately six (6) semester hours of work; no credit for this effort may be included in the minimum 30-hour requirement. The report(s) must be written with a level of content and style which may be reasonably expected of a graduate student.

Please check the degree requirements in the following link. Follow the link to each program.

<http://www.engr.uky.edu/research-faculty/departments/mining-engineering/students/graduate-programs>

Music - Composition, MM

The School of Music offers a Master of Music (M.M.) degree in composition. The program currently focuses on traditional composition, but electro-acoustic music is offered as an option and may at some point in the future be offered as a separate program.

Admission Requirements

The applicant for the master's degree is expected to have earned an appropriate undergraduate degree and successfully interview with the composition faculty during the semester prior to admission. Students should submit a portfolio of at least three compositions in a variety of media (traditional and/or electroacoustic). All composition applicants must take the Graduate Entrance Exams in written and aural music theory, and those interested in applying for a teaching assistantship in music theory must also successfully complete an audition-interview with the theory and composition faculty to assess sight-reading, sight-singing, and keyboard fluency. To ensure full consideration, both the exams and the audition-interview should be completed during the audition-weekend period of the semester prior to admission.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Entrance exams in Music History and Music Theory (written and aural) are given prior to the course-add deadline at the beginning of the semester to determine whether review classes are necessary in the first semester of study. Students must pass the entrance exams or pass any required review classes with a grade of A or B before accumulating 12 credit hours.

Degree Requirements

General Requirements for Master of Music Degree

At least fifty percent of all course credits must be at the 600 level or above.

Master of Music (Composition)

Prerequisite: Submission of three original compositions (as described in admission requirements).

- Advanced Composition (MUS 673) (4)
- Orchestration (MUS 570 and MUS 571) (4)
- Music History and Literature (6)
- Theory (including a minimum of one course from: MUS 670, MUS 671, MUS 672, or MUS 676) (9)
- Directed Electives (1)
- Thesis Composition (6)

Total (30)

For the Master of Music degree in Composition, an original composition of major proportions or a portfolio of original compositions with a combined total of at least thirty minutes duration, acceptable to the composition-theory faculty and publicly performed, must be submitted with a written document (15 to 25 pages) analyzing the thesis composition or portfolio. The student is responsible for the preparation of legible score and parts, arranging a performance, and/or suitable recordings (if in electroacoustic medium).

Music - Music Education, MM

The School of Music offers the Master of Music (M.M.) with specialty areas in music education (e.g., Instrumental Teaching or Conducting, Choral Teaching or Conducting, and General Music - Dalcroze Eurhythmics or Orff Schulwerk. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Graduate work can count toward Rank changes (Rank II or Rank I). Graduates of the MMME are encouraged to work directly with the Educational Professional Standards Board (EPSB) in Frankfort, Kentucky to enact these changes: <http://www.epsb.ky.gov/mod/page/view.php?id=101>

Admission Requirements

The applicant for the MMME is expected to have earned a bachelor's degree in music or music education.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Applicants for the MMME do not need to audition, but should contact the Division Coordinator to schedule an interview.

Applicants take entrance exams in Music History and Music Theory (written and aural) the week before classes begin to determine whether review classes are necessary in the first semester of study. Students will receive information about scheduling exams from the Director of Graduate Studies. Admission for all degrees is conditional upon passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours.

Degree Requirements

General Requirements for the MMME

- At least half of the minimum requirements for the MMME (e.g., 15 credits) must be in 600- or 700-level courses.
- At least two-thirds of the minimum requirements for the MMME (e.g., 20 credits of the 30-credit minimum) must be in regular courses (not independent studies).
- A maximum of 4 credit hours of MUP (lessons) can apply toward degree requirements.
- Receipt of two grades of C or less can result in dismissal from the program.
- With the approval of the Director of Graduate Studies a student may petition the Graduate School to repeat a graduate class in order to replace a previously lower grade. This option is available only once in any particular degree program.
- For the Master of Music in Music Education, students may choose the thesis option (Plan A), or the non-thesis option which requires taking six hours of additional course work instead of a thesis (Plan B). Students planning to earn a doctorate in Music Education should elect Plan A. A final comprehensive examination is required for each plan.

Music Education - Plan A

Core Requirements: (12)

- MUS 600 RESEARCH I (3)
- MUS 601 FOUNDATIONS IN MUSIC EDUCATION (3)
- Music History and Literature (including MUS 693) (3)
- Music Theory (including MUS 578, MUS 670, MUS 671, or MUS 672) (3)
- Thesis (MUS 768)(6)
- Music Education Electives The student can select any Music Education courses 500 level or above. (6)
- Music Electives The student can select any Music course (MUS or MUP) 500 level or above (e.g., in Performance, Music History, Music Theory, Music Education, Composition). (6)

Total (30)

Music Education - Plan B

Core Requirements: (12)

- MUS 600 RESEARCH I (3)
- MUS 601 FOUNDATIONS IN MUSIC EDUCATION (3)
- Music History and Literature (including MUS 693) (3)
- Music Theory (including MUS 578, MUS 670, MUS 671, MUS 672 or MUS 676) (3)
- Specialized Area of Study (12)
- (The student will select 12 hours from the four areas described below, Instrumental Teaching or Conducting, Choral Teaching or Conducting, and General Music-Dalcroze Eurhythmics or Orff Schulwerk. The student and advisor will determine the general area of emphasis and plan a set of courses which best fulfills the student's needs. Students may mix and match music education courses in their specialized area of study; they do not have to take all the courses listed for each emphasis).
- Music or Education Electives The student can select any music or education courses 500 level or above. (6)

Total (30)

Specialized areas of study for Plan B

INSTRUMENTAL TEACHING OR CONDUCTING EMPHASIS - Band or Orchestra (Student and Advisor choose twelve hours from courses below which would best fulfill the student's needs).

- MUP Applied Performance (maximum of 4 hours) (1-4)
- MUP Secondary Applied (1-2)
- MUS 680 BAND HISTORY AND LITERATURE (3)
- MUS 681 ADVANCED REHEARSAL TECHNIQUES - BAND (3)
- MUS 622 SYMPHONIC LITERATURE (3)
- MUS 662 DALCROZE APPROACH I (3)
- MUP 558 CONDUCTING or MUP 658 CONDUCTING (1-4)
- MUS 684 ADVANCED STRING METHODS AND MATERIALS (3)
- MUS 570 ORCHESTRATION or MUS 571 ORCHESTRATION (2)
- MUS 706 MUSIC LEARNING AND BEHAVIOR (3)
- MUS 766 SEMINAR IN MUSIC EDUCATION (3)
- MUS 664 INCLUSIVE MUSIC PRINCIPLES AND PRACTICES (3)
- MUS 555 SOUNDS OF MUSIC: PSYCHOLOGY & PERCEPTION (3)

CHORAL TEACHING OR CONDUCTING EMPHASIS (Student and Advisor choose twelve hours from courses below which would best fulfill the student's needs).

- MUP Applied Performance (Maximum of 4 hours) (1-4)
- MUS 660 ADVANCED MUSIC EDUCATION METHODS AND MATERIALS (SUBTITLE REQUIRED): Elementary General Music (3)
- MUS 650 MUSIC EDUCATION WORKSHOP (1-3)
- MUS 660 ADVANCED MUSIC EDUCATION METHODS AND MATERIALS (SUBTITLE REQUIRED): Choral Techniques (3)
- MUP 558 CONDUCTING or MUP 658 CONDUCTING (1-4)
- MUS 662 DALCROZE APPROACH I (3)

- MUS 706 MUSIC LEARNING AND BEHAVIOR (3)
- MUS 766 SEMINAR IN MUSIC EDUCATION (3)
- MUS 664 INCLUSIVE MUSIC PRINCIPLES AND PRACTICES (3)
- MUS 555 SOUNDS OF MUSIC: PSYCHOLOGY & PERCEPTION (3)

DALCROZE EURHYTHMICS EMPHASIS (Student and Advisor choose twelve hours from courses below which would best fulfill the student's needs).

- MUS 650 MUSIC EDUCATION WORKSHOP (1-3)
- MUS 662 DALCROZE APPROACH I (3)
- MUS 663 DALCROZE APPROACH II (3)
- MUS 668 DALCROZE APPROACH III (3)
- MUS 669 INDIVIDUAL DALCROZE PROJECT (3)

Completing MUS 662, 663, 668, and 669 and two summers of Dalcroze workshops (no credit required) fulfills the requirement for the Graduate Certificate in Eurhythmics, which is a 12-credit hour program that can be embedded into the MMME. Students who wish to do this need to apply to the UK Graduate School again to enroll in the Graduate Certificate in Eurhythmics.

ORFF SCHULWERK EMPHASIS (Student and Advisor choose twelve hours from courses below which would best fulfill the student's needs).

- MUS 561 ORFF CERTIFICATION: LEVEL I, II, OR III (2-6)
- MUS 560 ORFF SCHULWERK (1-3)
- MUS 666 ADVANCED ORFF SCHULWERK (3)

Completing three summers of Orff Teacher Training Courses (listed as MUS 561, MUS 560, and/or MUS 666) and the capstone course MUS 666 fulfills the requirement for the Graduate Certificate in Orff Schulwerk, which is a 12-credit hour program that can be embedded into the MMME. If students are short on credits, they may enroll in MUS 560 during spring and fall semester to attend Orff workshops or the Orff conference for credit. Students who wish to do this need to apply to the UK Graduate School again to enroll in the Graduate Certificate in Orff Schulwerk.

Students choosing to write a master's thesis may do so by choosing a topic related to Orff Schulwerk for the thesis and completing six hours of Orff Schulwerk and achieving Level Two Orff Certification.

This MM degree with Concentration in Orff Schulwerk is part of the Academic Common Market program recognized in the state of West Virginia. Residents of West Virginia can be charged Kentucky in-state tuition by submitting an application to their State Academic Common Market Coordinator for approval.

Music - Performance, MM

The School of Music offers the Master of Music (M.M.) with specialty areas in performance (including choral or instrumental conducting), composition, sacred music, music therapy, or music education. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The applicant for the master's degree is expected to have earned an appropriate undergraduate degree and successfully audition for the faculty.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Applicants for performance degrees must audition. Some areas require a pre-recorded preliminary audition as part of the screening process. Live auditions should be scheduled by contacting the faculty member in charge of the student's performing area or filling out an audition request form on the School of Music web page.

For performance majors the entrance exams in Music History and Music Theory (written and aural) are given the week before classes begin to determine whether review classes are necessary in the first semester of study. Admission for all degrees is conditional upon either passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours.

Degree Requirements

General Requirements for Master of Music Degree

At least fifty percent of all course credits must be at the 600 level or above.

Master of Music (Performance) General Requirements (see below for area-specific requirements)

Prerequisites: Acceptance by the appropriate faculty of applied music.

- Music Performance (including recital) (9)
- Music History and Literature (6)
- Theory (including a minimum of one course from MUS 670, MUS 671, MUS 672, or MUS 676) (6)
- Directed Electives (9)
- Recital (0)

Total (30)

A minimum of three full semesters, excluding summer sessions, is necessary for an M.M. in Performance. This MM degree program is offered in the following specialty areas: piano, collaborative piano (see below), voice (see below), organ, violin, viola, cello, bass, guitar, flute, oboe, clarinet, saxophone, bassoon, trumpet, horn, trombone, euphonium, tuba, percussion and conducting (choral or instrumental). Wind, string, percussion, and conducting majors must participate in at least one University-sponsored performing organization for two semesters.

Thesis Requirement: For the Master of Music degree in Performance, a public recital acceptable to the faculty is required in lieu of a thesis.

Master of Music (Collaborative Piano)

Degree requirements to be added

Master of Music (Voice Performance)

- Voice Performance (including recital) (9)
- Music History and Literature (must include MUS 623 or MUS 627) (6)
- Theory (including a minimum of one course from MUS 670, MUS 671, MUS 672, or MUS 676) (6)
- Physiology and Functioning of the Singing Voice (MUS 665) (3)
- Materials, Techniques, and Literature of Voice Teaching (MUS 667) (3)
- Advanced Vocal Repertory (MUS 620) (3)

Total (30)

A minimum of three full semesters, excluding summer sessions, is necessary for an M.M. in Performance.

Foreign Language Requirement: Voice Performance majors in the Master of Music are expected to have taken at least one year each of undergraduate level German, French, and Italian (or the equivalent by petition to the Director of Graduate Studies in the School of Music) as a prerequisite for degree study. If deficient, a student must enroll in language courses each semester of study until the deficiency is removed. Language classes must be passed with a letter grade of B or above.

Music Theory, MA

The School of Music offers the Master of Arts (M.A.) with specialty areas or emphases in musicology or theory. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The applicant for the master's degree is expected to have earned an appropriate undergraduate degree.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. For those applying for Music Theory entrance exams and an interview are required as part of the application process. Students should contact the Division Coordinator or Director of Graduate Studies to schedule exams and an interview. Admission for all degrees is conditional upon passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours.

Degree Requirements

Students who have not passed the entrance exams in music history and/or music theory will be required to take review classes in those areas during the first 12 hours of study.

- Theory (including a minimum of one course from MUS 670, MUS 671, MUS 672 or MUS 676) (9-12)
- Music History and Literature (6-9)
- Research Methods (MUS 618) (3)
- Directed Electives (0-6)
- Thesis (6)

Total (30)

Additional Requirements for Master of Arts Degree

Foreign Language Requirement: The Master of Arts degree requires a reading knowledge of one foreign language, preferably French or German. Language classes must be passed with a letter grade of B or above.

Thesis Requirement: The Master of Arts degree requires a thesis (Plan A: see general requirements). A final comprehensive examination is required for each program.

At least fifty percent of all course credits must be at the 600 level or above.

Music Therapy, MM

The School of Music offers the Master of Music (M.M.) with specialty areas in performance (including choral or instrumental conducting), composition, sacred music, music therapy, or music education. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

An undergraduate degree in music therapy (or the equivalent) is required for full admission to the 30-credit hour Master of Music in Music Therapy degree. Additionally, students must hold the MT-BC credential in order to fulfill the requirements of the MM in music therapy. A combined equivalency/master's degree program is available for students without an undergraduate degree in music therapy. Applicants for the combined equivalency/master's degree are expected to have earned an undergraduate degree in music or, at a minimum, a music minor. Students who have earned a music minor should contact the program director prior to applying to the combined equivalency/master's degree program.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music.

In addition to the items required on the Graduate School application, applicants for the MM in Music Therapy must complete the following:

- An interview with the music therapy faculty, during which students will be asked to sing one song while accompanying themselves on guitar and one song while accompanying themselves on piano. Students who have not yet learned to play guitar only sing and play one song with piano accompaniment.
- The specialize Music Therapy entrance exams cover music theory, music history, and music therapy. These three entrance exams are specific to the music therapy area and serve in lieu of the entrance exams used for other degree programs. Applicants should contact the music therapy program director to arrange for an interview and schedule the entrance exams. Admission is conditional upon passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours.
- Information about this exam can be found in the School of Music Graduate Handbook, section 1.11.3:
https://finearts.uky.edu/sites/default/files/Uploads/Documents/graduate_handbook_2020.pdf

Degree Requirements

At least fifty percent of all course credits must be at the 600 level or above.

Equivalency Requirements: Combined equivalency/master's students must have met all AMTA Professional Competencies before finalizing the Master of Music in Music Therapy degree. The number of credits required to complete the equivalency option will vary based on previous courses taken.

All students (both traditional and combined equivalency/master's degree students) must complete the following coursework to finalize the master's degree. Please note: any graduate coursework taken to remediate professional competencies will not count toward the master's degree.

- MUS 600 RESEARCH I (3)
- MUS 633 GRADUATE CLINICAL PLACEMENT IN MUSIC THERAPY (1-3)
- Music Therapy (The student will select 11 hours from the following courses: MUS 630; MUS 631; MUS 633; MUS 664; MUS 706; MUS 730; MUS 732; MUS 770) (11)
- Electives (9) (The student will select 9 hours of electives based on consultation with their academic advisor.)
- MUS 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE (6)

Total (30)

Music, MM

The School of Music offers a Sacred Music emphasis within the Master of Music in Performance program. Requirements for this emphasis are listed below.

The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The applicant for the master's degree is expected to have earned an appropriate undergraduate degree in music (which should involve a performance component) and successfully audition for the faculty.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Applicants for performance degrees must audition. Some areas require a pre-recorded preliminary audition as part of the screening process. Live auditions should be scheduled by contacting the faculty member in charge of the student's performing area or filling out an audition request form on the School of Music web page.

For performance majors the entrance exams in Music History and Music Theory (written and aural) are given the week before classes begin to determine whether review classes are necessary in the first semester of study. For academic degrees, entrance exams and an interview are required of the application process. Specialized exams may be required in certain performance and academic areas. Students should contact the Division Coordinator or Director of Graduate Studies to schedule exams. Admission for all degrees is conditional upon passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours.

Degree Requirements

General Requirements for Master of Music Degree

At least fifty percent of all course credits must be at the 600 level or above. For students in M.M. degrees, entrance exams will be scheduled the week before the first semester of classes to assess competency in music history and music theory. Students who have not passed the entrance exams in music history and/or music theory will be required to take review classes in those areas during the first 12 hours of study.

Master of Music (Sacred Music)

- **UK Requirements: (27)**
- MUS 660 ADVANCED MUSIC EDUCATION METHODS AND MATERIALS (SUBTITLE REQUIRED) (3)
- Music History and Literature (3)
- Music Theory (including a minimum of one course from MUS 670, MUS 671, MUS 672, or MUS 676) (3)
- Ensemble (2)
- Music Education (Choose from MUS 560, MUS 561, MUS 650 or other graduate music education course in consultation with advisor) (3)
- Internship (3)
- Specialized area of study (10)
- **Course work at an accredited seminary or other institution specializing in religious studies (6-9)** (Choose from topics such as Music in Worship, Designing Worship, Congregation, Worship

and Spirituality, Worship and Music in the Liturgical Year, or other courses. Credits must be completed with a grade "B" or above and must be transferred to UK officially prior to graduation)
Total (33)

Specialized areas of study:

Voice or Keyboard (organ or piano)

- MUP 558 CONDUCTING (4)
- Music Performance (Voice or Keyboard) (6 +*)

Choral Conducting

- MUP 558 & MUP 658 Choral Conducting (8)
- Keyboard, MUP 501 or MUP 503 (2)

+ An audition in the performing area (voice, organ, or piano) is required.

* A 15-minute jury before either the voice faculty (for vocal emphasis) or the keyboard faculty (for piano or organ emphasis) is required at the end of the applied study.

Musicology, MA

The School of Music offers the Master of Arts (M.A.) with specialty areas or emphases in musicology or theory. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The applicant for the master's degree is expected to have earned an appropriate undergraduate degree.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. For academic degrees, entrance exams and an interview are required as part of the application process. Students should contact the Division Coordinator or Director of Graduate Studies to schedule exams and an interview. Admission for all degrees is conditional upon passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours. Students may consider applying directly to the blended MA/PhD program in Musicology/Ethnomusicology.

Degree Requirements

Students who have not passed the entrance exams in music history and/or music theory will be required to take review classes in those areas during the first 12 hours of study.

- Music History and Literature (9-12)
- Theory (including a minimum of one course from MUS 670, MUS 671, MUS 672, or MUS 676) (6-9)
- Research Methods (MUS 618) (3)
- Directed Electives (0-6)
- Thesis (6)

Total (30)

Additional Requirements for Master of Arts Degree

Foreign Language Requirement: The Master of Arts degree requires a reading knowledge of one foreign language, preferably French or German. Language classes must be passed with a letter grade of B or above.

Thesis Requirement: The Master of Arts degree requires a thesis (Plan A: see general requirements). A final comprehensive examination is required for each program.

At least fifty percent of all course credits must be at the 600 level or above.

Nursing, MSN

The MSN in Healthcare Systems Leadership program is based on the MSN Essentials and builds on the student's current knowledge and expertise. Graduates that complete this program will have a fuller understanding of the discipline of nursing in order to engage in higher level practice and leadership in a variety of settings and to commit to lifelong learning. Students will take a series of courses that prepare them to function as change agents in multi-dimensional roles in the organization and community. The curriculum emphasizes leadership effectiveness in micro and meso organizational/systems/settings, evidence-based management, quality/safety, information management expertise, and strategies to make organizational effectiveness strategies. MSN courses are offered on-line. Graduates will be prepared to:

1. Lead change to improve quality outcomes,
2. Advance a culture of excellence through lifelong learning,
3. Build and lead collaborative inter-professional care teams,
4. Navigate and integrate care services across the healthcare system,
5. Design innovative nursing practices, and
6. Translate evidence into practice (AACN, 2011, The Essentials of Master's Education in Nursing)

The Master of Science in Nursing in Healthcare Systems Leadership program builds on a student's undergraduate nursing degree and prepares the individual for advanced practice nursing in a chosen specialty. Research utilization, evidence-based practice, and leadership are emphasized throughout the program.

The University of Kentucky prepares nurse practitioners in the post BSN Doctor of Nursing Practice (DNP) program, and not in the MSN program. The DNP is a professional clinical doctorate program. Information can be found at [UK DNP Program information](#).

Admission Requirements

Applicants to the master's degree program must meet the minimum requirements of the Graduate School, as well as the following requirements of the nursing program: Minimum undergraduate grade point average of 3.0 on a 4.0 grading scale; Baccalaureate degree in nursing from a school accredited by a nationally recognized organization and goal statement, scholarly writing sample, three references, resume/CV and interview. Unencumbered RN licensure required in/for the state where clinicals take place. The RN license cannot have any restrictions on licensure which would preclude meeting the requirements of the degree program and required clinical rotations. Final admission recommendations are made on a competitive basis. See details at [MSN Healthcare Leadership Admission](#)

The MSN application opens Sept. 15 and closes February 15th for Fall (August) enrollment. Feb 15th is the preferred deadline. Applications received after this deadline will be considered in a space available basis. The MSN program does not admit a spring or summer class.

Degree Requirements

- Total credit hours: 38
- MSN Capstone Project required. There is no thesis option.
- Program requires 29 didactic credit hours and 9 clinical credit hours (540 practicum hours). Required courses and clinical practicum work are listed below.

Course	Course Title	Credits
EPE 557	Gathering, Analyzing and Using Educational Data	3
NUR 624	Concepts, Theories, and Models for Advanced Practice Nursing	3
NUR 614	Economic and Financial Aspects of Clinical and Population-Based Health Care Delivery Systems	3
NUR 602	Research Methods In Advanced Practice Nursing	3

NUR 730	Leading Change: Seminar	3
NUR 731	Leading Change: Practicum	3
NUR 610	Nursing Leadership in Health Care	3
NUR 619	Quality and Safety in Nursing and Healthcare	3
NUR 615	Evaluating Evidence for Research and Evidence-Based Practice	3
NUR 736	Relationship Based Leadership in Healthy Work Environments (Seminar)	3
NUR 737	Relationship Based Leadership in Healthy Work Environments (Practicum)	3
NUR 660	MSN Capstone Practicum	3
NUR 617	Technology for Transforming Nursing and Healthcare	2

- See sample full and part time plans of study at MSN Healthcare Systems leadership plans of study
- Information on all graduate nursing programs is located at UK Graduate Nursing Programs

Nutrition and Food Systems, MSNFS

Graduate education leading to a Master of Science in Nutrition and Food Systems. There are two concentration areas, the Traditional MS and the Accelerated Coordinated Program in Dietetics. Only University of Kentucky students admitted to the Accelerated Coordinated Program in Year 3 of the undergraduate degree program (Option B in BS in Dietetics) can enter this concentration area.

The Traditional MS includes a 17-hour graduate-level core emphasizing contemporary nutrition topics, such as research methods and health behavior theories, community programming and intervention development, food systems, chronic disease diagnosis and processes related to lifestyle behaviors, statistics, and a nutrition and food systems seminar. The Accelerated Coordinated Program in Dietetics includes an 18-hour graduate-level core that emphasizes a variety of nutrition topics, such as evidence-based practices, research methods and health behavior theories, community programming and intervention development, food systems, chronic disease diagnosis and process related to lifestyle behaviors.

Admission Requirements

Admission to the MS in Nutrition and Food Systems program is selective and competitive. Students must have a relevant undergraduate degree from an accredited institution; a minimum GPA of 3.0 with conditional admittance considered; a phone or in-person interview with the Director of Graduate Studies or Department Chair; submission of a written essay, a technical scientific writing sample (student topic choice), and three letters of recommendation.

Admission to the Accelerated Coordinated Program in Dietetics is selective and competitive; students are expected to maintain a rigorous schedule in order to complete all required courses for the undergraduate and graduate degrees as well as the hours for the supervised practice within 10 semesters and three summer sessions. The Accelerated Coordinated Program Concentration Area of the MS in Nutrition and Food Systems will only be available to students who were admitted to the Accelerated Coordinated Program (Option B of BS in Dietetics) during Year 3 in the University of Kentucky BS in Dietetics program. Students must have a cumulative GPA of 3.0 to apply. The application will include a personal statement, three letters of recommendation, and an interview. As such, this program is only available to University of Kentucky students. Students from other colleges and universities can apply for, and be admitted into, the UK MS in Nutrition and Food Systems, but only for the "Traditional MS Concentration Area."

Degree Requirements

The Master of Science program prepares students for careers in community, education, government, industry, non-profit, health care or private practice settings. A student in the Traditional MS concentration may choose the Plan A - Thesis or Plan B - Project.

Plan A - Thesis requires the 17-hour core, 7 hours of electives to explore areas of personal interest, 6 additional hours of research credit and a written thesis and oral defense.

Plan B - Project requires the 17-hour core, 13 hours of electives, 6 additional hours of special problems, and a project presentation and exam.

A student in the Accelerated Coordinated Program in Dietetics concentration area can only complete Plan B - Project. For these students, the Project requires the 18-hour core, 18 hours of electives, and 16 hours of supervised practice coursework.

Traditional MS Plan A and B Core Courses

- DHN 600 RESEARCH METHODS IN NUTRITION AND FOOD SYSTEMS (3)
- DHN 603 ADVANCED COMMUNITY PROGRAM DEVELOPMENT (3)
- DHN 605 FOOD SYSTEMS AND SOCIETY (3)
- DHN 608 CHRONIC DISEASE MANAGEMENT AND PROCESS (3)
- DHN 774 SEMINAR IN NUTRITION AND FOOD SYSTEMS (3)
- STA 671 REGRESSION AND CORRELATION (2)
- DHN 768 RESIDENCE CREDIT FOR THE MASTERS DEGREE (Plan A only) (6)
- DHN 782 SPECIAL PROBLEMS (Plan B only) (6)

A 500-level statistics course is a pre-requisite to the graduate program and may be taken during the existing graduate program.

Accelerated Coordinated Program Courses

Core Courses

- DHN 581 APPLIED EVIDENCE-BASED PRACTICE IN DIETETICS (3)
- DHN 597 OBESITY AND FOOD INSECURITY PARADIGM: FROM CELL TO SOCIETY (3)
- DHN 598 GLOBAL FOODS, DIET AND CULTURE (3)
- DHN 605 FOOD SYSTEMS AND SOCIETY (3)
- DHN 608 CHRONIC DISEASE MANAGEMENT AND PROCESS (3)
- DHN 680 ADVANCED EVIDENCE-BASED PRACTICE IN DIETETICS (3)

Supervised Practice Courses

- DHN 720 DIETETICS SUPERVISED PRACTICE: MEDICAL NUTRITION THERAPY I (4)
- DHN 722 DIETETICS SUPERVISED PRACTICE: FOOD SERVICE SYSTEMS MANAGEMENT I (4)
- DHN 724 DIETETICS SUPERVISED PRACTICE: FOOD SERVICE SYSTEMS MANAGEMENT II (2)
- DHN 726 DIETETICS SUPERVISED PRACTICE: MEDICAL NUTRITION THERAPY II (2)
- DHN 728 DIETETICS SUPERVISED PRACTICE: COMMUNITY NUTRITION I (2)
- DHN 730 DIETETICS SUPERVISED PRACTICE: COMMUNITY NUTRITION II (2)

Elective Courses for MS NFS Concentration Areas

- DHN 607 FOOD RELATED BEHAVIORS (3)
- DHN 690 ADVANCED WORK IN DIETETICS (3)
- DHN 620 NUTRITION AND AGING (3)
- DHN 630 ADVANCED COMMUNITY NUTRITION (3)
- DHN 640 HUMAN NUTRITION: ASSESSMENT (3)
- DHN 690 ADVANCED WORK IN DIETETICS (3)
- DHN 784 SPECIAL PROBLEMS IN FINANCIAL MANAGEMENT (3)

Students may also choose appropriate electives outside the department with the permission from the instructor.

Nutritional Sciences, MSNS

The impact of nutrition on health and disease has produced major clinical and public policy challenges that are shaping research and career opportunities for highly trained nutritional scientists in academia, industry and government. Disease prevention efforts, increased health consciousness and an aging population are further fueling the demand for nutritional scientists. The interdisciplinary Division of Nutritional Sciences enables students in Masters of Science program to explore the interrelationship between environmental factors and nutrients and their effect on biochemistry, physiology and disease development. More than 50 faculty members provide teaching and individualized research guidance across over 20 departments and divisions in the University's Colleges of Medicine, Health Sciences and Agriculture, as well as the Colleges of Pharmacy, Nursing, and Education. A primary area of research and training targets nutrition and chronic diseases, with a focus on obesity and associated disorders of cardiovascular disease, diabetes and cancer.

Other specialty areas include nutrition and oxidative stress, nutrition and aging, clinical nutrition, animal nutrition and food science.

Students in the MS in Nutritional Sciences program choose from one of the four emphasis areas: clinical nutrition, molecular and biochemical nutrition, community nutrition, and wellness/sports nutrition.

Admission Requirements

1. Transcript showing a baccalaureate degree from a fully accredited institution of higher learning.
2. A minimum undergraduate grade point average of 2.9 on undergraduate coursework and a 3.0 on all graduate work.
3. For international applicants, a minimum score of 550 on the paper-based Test of English as a Foreign Language (TOEFL), which has a maximum score of 667; score of 213 on the computer-based TOEFL (maximum 300), or 79 on the internet-based TOEFL. The minimum International English Language Testing Service (IELTS) score is a 6.5. All applicants must demonstrate proficiency in verbal and written English.
4. Admission for the M.S. in Nutritional Sciences with Clinical Nutrition Emphasis is limited to those with a B.S. in Dietetics, having an RD, or being RD eligible.
5. Course Prerequisites: you would need to have taken an undergraduate physiology course (PGY 206 at UK) and it is highly recommended that you have taken 1 year of general chemistry (CHE 105 and 107 at UK) and 1 semester of organic chemistry (CHE 236 at UK). Biochemistry is also a prerequisite course but it can be taken your first semester for graduate credit (BCH 401G). It has prerequisites of CHE 107 and CHE 236.

Degree Requirements

Program Websites: <https://pharmns.med.uky.edu/pharmns-masters-program> and <https://pharmns.med.uky.edu/pharmns-nutritional-sciences>

The MS in Nutritional Sciences degree program is available in two options:

- **Plan A:** 30 credits, includes 6 credit hours of thesis research (NS 768)
- **Plan B:** 30 credits, non-thesis option

Core Courses for MS (12-15 credits)

- NS 601/CNU 601 INTEGRATED NUTRITIONAL SCIENCES I (3)
- NS 602/ASC 602/CNU 602 INTEGRATED NUTRITIONAL SCIENCES II (3)
- NS 603/CNU 603/FSC 603 INTEGRATED NUTRITIONAL SCIENCES III (2)
- NS 704/CNU 704/DHN 704 CURRENT TOPICS IN NUTRITIONAL SCIENCES (1)
- STA 570 BASIC STATISTICAL ANALYSIS (4) **or** IBS 611 PRACTICAL STATISTICS (2)
- NS 771 GRADUATE SEMINAR IN NUTRITIONAL SCIENCES (taken twice) (0)
- NS 771 GRADUATE SEMINAR IN NUTRITIONAL SCIENCES (taken once) (1**)
- NS 768 RESIDENCE CREDIT FOR THE MASTERS DEGREE (6**)

- NS 782/CNU 782/DHN 782 SPECIAL PROBLEMS (1-6*)
- NS 609/CNU 609 (1)

*Plan B Only

**Plan A Only

Courses for Emphasis in Clinical Nutrition

Prerequisite- B.S. in Dietetics and/or meeting ADA Dietetics requirements for internship

- CNU 501 NUTRACEUTICALS AND FUNCTIONAL FOODS IN HEALTH AND DISEASE PREVENTION (2) **or** CNU 502 OBESITY C2C: CELL TO COMMUNITY (SUBTITLE REQUIRED) (2)
- NS 702/CNU 702 CLINICAL/WELLNESS PROBLEM-BASED CASE STUDIES (1-3)
- CNU 611 ADVANCED MEDICAL NUTRITION THERAPY (2)
- CNU 612 ASSESSMENT SKILLS FOR THE CLINICAL NUTRITIONIST (2)

Emphasis Credits = 7-9

Electives to equal a minimum of 30 credit hours

Courses for Emphasis in Wellness and Sports Nutrition

- NS 605/CNU 605 ADVANCED SPORTS NUTRITION (3)
- KHP 600 EXERCISE STRESS TESTING AND PRESCRIPTION (3)
- KHP 620 ADVANCED EXERCISE PHYSIOLOGY (3)
- CNU 501 NUTRACEUTICALS AND FUNCTIONAL FOODS IN HEALTH AND DISEASE PREVENTION (2)

Emphasis credits = 11

Electives to equal a minimum of 30 credit hours

Courses for Emphasis in Community Nutrition

- CPH 605 EPIDEMIOLOGY (3)
- DHN 603 ADVANCED COMMUNITY PROGRAM DEVELOPMENT (3)
- DHN 607 FOOD RELATED BEHAVIORS (3)

Emphasis credits= 9

Electives to equal a minimum of 30 credit hours

Courses for Emphasis in Molecular and Biochemical Nutrition

- IBS 601/BCH 607 BIOMOLECULES AND METABOLISM (3)
- BCH 608 BIOMOLECULES AND MOLECULAR BIOLOGY (3) **or** IBS 602 MOLECULAR BIOLOGY AND GENETICS (3)
- NS 606/CNU 606 MOLECULAR BIOLOGY APPLICATIONS IN NUTRITION (2)

Emphasis Credits= 8

Electives to equal a minimum of 30 credit hours

Students can focus their curriculum in one of the four emphasis areas outlined above by selecting elective courses that meet their professional needs and personal interests. A full list of approved electives with course descriptions is available in the handbook on the program website.

Orientation and Mobility, MAEDU

The Department of Early Childhood, Special Education, & Counselor Education offers a Master of Arts Program in Orientation and Mobility (O&M). The program uses a hybrid course delivery model, including both face-to-face and on-line courses. Face-to-face courses occur on weekends and in the summer at either the Kentucky School for the Blind (KSB) in Louisville or at the University of Kentucky in Lexington.

The O&M program prepares individuals to provide instruction related to knowledge and skills for independent travel for children and adults with visual impairments, including those with additional disabilities. These professionals teach topics including: the use of canes and dog guides, independent travel skills, sensory and motor development, and advanced travel in complex environments.

The University of Kentucky has the distinction of offering the only O&M program in Kentucky.

Admission Requirements

Applicants must have completed a bachelor's degree in any field with a minimum of 2.75 overall or 3.0 GPA in the last 30 credit hours to apply.

Applications must include the following:

- Resume/CV
- Personal Statement (1-2 pages on why you want to be an O&M specialist)
- Official transcripts from all previous universities or colleges
- Three (3) completed reference forms or letters

Applications are accepted in the spring on even years for a fall semester start of that year.

Degree Requirements

Prerequisite Coursework (see program website for more information on transfer courses and concurrent enrollment)

- BVI 580 INTRODUCTION TO VISUAL IMPAIRMENTS (3)
- BVI 582 ANATOMY AND PHYSIOLOGY OF THE EYE (3)

- BVI 583 BRAILLE CODES I (3)

30 credit hours with an overall GPA of 3.0

- CED 525 HUMAN GROWTH, DISABILITY, AND DEVELOPMENT ACROSS THE LIFESPAN (3)
- BVI 620 FOUNDATIONS OF ORIENTATION AND MOBILITY (3)
- BVI 621 INTRODUCTION TO SKILLS AND TECHNIQUES IN ORIENTATION AND MOBILITY (2)
- BVI 622 ADVANCED SKILLS AND TECHNIQUES IN ORIENTATION AND MOBILITY (2)
- BVI 623 ORIENTATION AND MOBILITY FOR CHILDREN (3)
- BVI 624 TECHNOLOGY IN ORIENTATION & MOBILITY (1)
- BVI 626 METHODS IN ORIENTATION AND MOBILITY (3)
- BVI 627 ORIENTATION AND MOBILITY FOR INDIVIDUALS WITH COMPLEX NEEDS (3)
- BVI 628 ASSESSMENT IN ORIENTATION AND MOBILITY (3)
- BVI 629 PRACTICUM IN ORIENTATION AND MOBILITY (1)
- BVI 720 INTERNSHIP IN ORIENTATION AND MOBILITY (6)

Successful completion of practicum and internship

- Refer to program website for specific requirements

Satisfactory demonstration of all program standards

Program website: <https://www.uky.edu/academics/masters/orientation-and-mobility-graduate>

Pharmaceutical Sciences, MS

The MS in Pharmaceutical Sciences (MSPS) degree is designed to provide training in research and scholarship within a pharmaceutical sciences discipline for students seeking careers that include a research component, such as those in the pharmaceutical industry, managed care organizations, state and local health departments, academic healthcare systems, and healthcare colleges. The MS program is designed as a component of the PharmD/MS in Pharmaceutical Sciences Dual Degree Program, or alternatively can be awarded to students pursuing a PhD in Pharmaceutical Sciences who change to the MS path. Graduates will be well prepared for a variety of career options, or alternatively a student in the Dual Degree Program could elect to continue their education by applying to the UK College of Pharmacy PhD Program in Pharmaceutical Sciences. Students that participate in this program can choose any aspect of research conducted by investigators at the UKCOP. These include five training tracks: Medicinal, Bioorganic & Computational Chemistry, Pharmaceutical Chemistry & Engineering, Pharmacology and Experimental Therapeutics, Clinical and Experimental Therapeutics, and Pharmaceutical Outcomes & Policy. Students must be admitted and enrolled in the University of Kentucky College of Pharmacy to be considered for this dual degree.

Admission Requirements

Admission to the MS program is restricted to students who are currently enrolled in the Doctor of Pharmacy Program at the UK College of Pharmacy (PharmD/MS Dual Degree Program), enrolled in the Pharmaceutical Sciences PhD Program at the UK College of Pharmacy who elect to switch to the MS path, or who receive special permission from the program to apply. Admission is competitive and is based on academic achievement (minimum 3.0/4.0 GPA in PharmD curriculum) and a letter of recommendation from a faculty research mentor.

Degree Requirements

The program follows the coursework requirements as set by the Graduate School for the master's degree. Students must earn at least 30 credits. At least two-thirds of the minimum requirements for the master's degree must be in regular courses, and at least half of the minimum course requirements (excluding thesis, practicum, or internship credit) must be in 600-or700-level courses. Candidates for the master's degree must have a major research focus area and must take at least two-thirds of the course work in this discipline. The other one-third may be taken in this area or in related graduate areas.

Under the dual degree program, 2 current PharmD courses will count towards graduate credit (PHR 951 SCHOLARSHIP I [3 credit hours] and PHR 961 SCHOLARSHIP II [3 credit hours]. Other graduate courses will be taken to account for the 8 credit hours of elective credits needed for the PharmD curriculum.

Students may satisfy the master's requirements by either of two options, thesis (Plan A) or non-thesis, (Plan B). The thesis option (Plan A) requires a thesis to be developed under the direction of a full or associate member of the Graduate Faculty. Collaborative effort by two or more graduate students is not forbidden. However, there must be enough independent effort to enable each student to make a separate contribution and to prepare an individual thesis. Before the final examination, the thesis director and the appropriate Director of Graduate Studies must indicate to the Graduate School that the student's thesis satisfies all requirements of the Graduate School and is complete in content and format with the exception of pagination, and that the student is ready to be examined. Any modification in the thesis which the final examination committee specifies must be made before the degree is conferred. Master's candidates working on their theses may enroll in 6 credits of course number PHS 768 .

The non-thesis option (Plan B) requires that six or more graduate credit hours of course work be submitted in lieu of a thesis. A student may follow this option with approval of the program concerned. Students should consult their advisor for any additional requirements established for Plan B in their area of study.

<https://pharmacy.uky.edu/admission-aid/phd-program>

Physician Assistant Studies, MSPAS

The University of Kentucky, Division of Physician Assistant Studies (PAS) offers a Plan B, non-thesis, physician assistant master's degree program that is accredited by the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA). The Master of Science in Physician Assistant Studies (M.S.P.A.S.) program is designed for students who wish to become PAs and hold a baccalaureate or will have earned a baccalaureate degree by the time they enter the program. The M.S.P.A.S. program is offered at two distinct locations in either Lexington or Morehead, KY.

The mission of the University of Kentucky Physician Assistant Studies program is to improve the health and well-being of the people in the Commonwealth of Kentucky by graduating competent and compassionate

physician assistants who will become transformative leaders in their practices and communities. Accordingly, we seek applicants who have a strong interest in practicing medicine in Kentucky, especially its most underserved areas. We employ a holistic approach to choose those students who will best fulfill our mission. Graduates of the program are eligible to take the Physician Assistant National Certifying Examination. After successful completion of the NCCPA Exam, graduates are eligible for state certification/licensure to practice as certified physician assistants.

Admission Requirements

The admissions cycle to the M.S.P.A.S. program is a competitive application and interview process occurring annually (April - July), with each cohort matriculating in January. Applicants select one campus (Lexington or Morehead) and apply simultaneously to the Centralized Application Service for Physician Assistants (CASPA) and the UK Graduate School application. Students must satisfy admissions requirements for both the Graduate School and the Physician Assistant Studies Program. For more detailed information on the program admissions requirements, please visit the program website.

Bachelor's Degree

All applicants must meet the minimum academic standards for the Graduate School. Completion of a bachelor's degree from a regionally accredited college or university is required prior to entry into the program. (The UKPAS program does not require a specific degree and the program does not favor one degree over another.) Additionally, applicants may have only two outstanding prerequisite requirements at the time of application submission to be completed by August.

*Prerequisite Courses**

A "C" grade or better must be earned in the following prerequisite courses and only one retake per course requirement:

- General Chemistry 1 with laboratory 1 semester
- General Chemistry 2 with laboratory 1 semester
- Organic Chemistry with laboratory 1 semester
- General Biology with laboratory 1 semester
- Microbiology with laboratory 1 semester
- Human Anatomy 1 semester
- Human Physiology 1 semester
- Statistics 1 semester
- Psychology 1 semester
- Developmental Psychology 1 semester
- Sociology or Anthropology 1 semester
- Medical Terminology 1 semester

Graduate Record Exam (GRE)

All GRE scores must come from exams taken within the last 5 years. A minimum score is not set by the program or UK's Graduate School. The UKPAS Program accepts ONLY the GRE for our program. We do not accept any substitutes (e.g. the MCAT, PA-CAT).

TOEFL Requirements (if applicable)

International applicants or domestic students who attended a high school in which English was not the primary language are required to submit TOEFL iBT scores in addition to the GRE. A minimum score of 26 in each category must be obtained: Reading, Listening, Speaking, & Writing.

Patient Care Experience

The UKPAS Program requires patient contact, however a minimum amount of hours is not set. Contact hours may be completed utilizing the following (but not limited to) medical disciplines: CNA, EMT, CMA, Medical Tech., phlebotomist, etc.

Additional Recommendations

Shadowing, leadership, and volunteer experience are strongly recommended to be a competitive applicant.

Letters of Recommendation

Three (3) letters of recommendation are required from people acquainted with the applicant for at least one year and familiar with his/her professional goals. They must be submitted with the CASPA application. Letters should come from the following sources:

- Letter 1 - PA or Physician
- Letter 2 - Academic Professor, Advisor, or Committee
- Letter 3 - Medical (i.e. PA, physician, nurse manager, etc.) or Academic

Admissions Essay

The admission essays are completed through the CASPA application. Essays must be of graduate quality and reflect the applicant's commitment and understanding to the profession, program mission, campus selection, and diversity, equity, and inclusion.

Basic Life Support Certification

Applicants must be certified in Basic Life Support for Health Providers through the American Heart Association by matriculation in January. Red Cross certifications will not be accepted.

Technical & Behavioral Standards, Background Checks, & Drug Screening

All students matriculating into the UKPA Program are required to meet certain technical and behavioral standards of the program and College of Health Sciences. Additionally, applicants must pass a background check and drug screenings.

Due to the competitive nature and large number of students applying to the program, not all applicants who meet minimum requirements will be invited for an interview.

For more information and dates of General Information Sessions please visit our website.

If you have questions after visiting our website and attending an information session you may contact:

Julia Berry

UKPA Educational Didactic & Admissions Coordinator

julia.berry@uky.edu

Degree Requirements

MSPAS Program Curriculum Requirements

All students enrolled in the program will take the following courses in a lock-step format. Courses are on a 4.0 grading scale. D grades are not awarded to graduate students.

Spring

ANA 611	Regional Human Anatomy	5
PAS 620	Health Care Delivery in the 21st Century	3
PAS 651	Introduction to the PA Profession	2
PGY 412G	Principles of Human Physiology	4

Summer 4-Week Intersession

PAS 610	Research Methods & Epidemiology in PA Studies	3
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Summer 8-Week Intersession

PAS 653	Introduction to Health & Disease	3
PAS 678	Health Promotion & Disease Prevention	2

Fall

PAS 645	Master's Project	1
PAS 650	Clinical Methods	4
PAS 654	Clinical Lecture Series I	4
PAS 655	Psychosocial Factors in Primary Health Care	3
PAS 672	Pharmacology I	3

Spring

PAS 646	Master's Project 2	2
PAS 656	Patient Evaluation & Management	4
PAS 657	Clinical Laboratory Procedures	3
PAS 658	Clinical Lecture Series II	4
PAS 673	Pharmacology II	3

Summer 4-Week Intersession

CNU 503	Nutrition for Health Professions	1
PAS 640	Survey of Geriatric Medicine	3

Summer 8-Week Intersession

Students begin Clinical Year Program Clerkship Requirements; rotations are not set in any particular order

Clerkships are 4-week long rotations

PAS 660	Family Medicine Clerkship (Two 4-week rotations)	6
PAS 661	Pediatric Clerkship	3
PAS 662	Obstetrics & Gynecology Clerkship	3
PAS 663	Surgery Clerkship	3
PAS 665	Clinical Practicum in Physician Assistant Studies (i.e. Electives; Three 4-week rotations)	9
PAS 669	Internal Medicine Clerkship (Two 4-week rotations)	6
PAS 670	Emergency Medicine Clerkship	3
PAS 671	Psychiatry Clerkship	3
PAS 680	Seminar in PA Studies	2

Total Program Credit Hours 95

Please note that any course offered in the PA program curriculum must be taken while in the program. The program does not offer advanced placement or course audits. Courses will not be allowed to transfer into the program (e.g. PGY 412G, ANA 611, etc.)

After completing the course work and clerkship requirements with a minimum 3.0 GPA, students who receive passing scores on the final graduate (Summative) examination will be awarded a Master of Science in Physician Assistant Studies (M.S.P.A.S.) degree. Graduates of the program are eligible to take the Physician Assistant National Certifying Examination. After successful completion of the exam, they are also eligible for state certification/licensure to practice as certified physician assistants.

Physics, MS

The Department of Physics and Astronomy offers courses and research opportunities leading to the M.S. and Ph.D. degrees in the areas of astronomy and astrophysics, atomic and molecular physics, low and intermediate energy nuclear physics, condensed matter physics, and particle physics. More detailed descriptions of each of these options is available at <https://pa.as.uky.edu/pa-faculty-research>.

Opportunities exist for experimental, theoretical, and computational, and observational research. Excellent laboratory facilities and library materials are available. Major facilities located within the Department are the six million volt Van de Graaff accelerator and the Center for Advanced Materials. Computational

resources include the Lipscomb HPC cluster and access to XSEDE, NERSC, TACC, JLab and BNL. The Department is active in research at many national laboratories, including Jefferson Lab (Virginia), Oak Ridge National Lab (Tennessee), Los Alamos National Lab (New Mexico), Argonne National Lab. (Illinois), Brookhaven National Lab (New York), Triangle Universities Nuclear Lab (North Carolina), National High Magnetic Field Facility (Florida), and Lawrence Berkeley Lab (California) as well as international laboratories including Paul Scherrer Institute (Switzerland), TRIUMF (Vancouver), and MAX-lab (Sweden). In astronomy our students conduct research at facilities including the National Radio Astronomy Observatory (West Virginia), Arecibo Observatory (Puerto Rico), Kitt Peak National Observatory (Arizona), McDonald Observatory (Texas), and the Hubble Space Telescope, and participate in collaborations including Sloan Digital Sky Survey-IV (SDSS-IV) and the Large Synoptic Survey Telescope (LSST). Such activities expose our graduate students to state-of-the-art instrumentation and world-class researchers.

Admission Requirements

In addition to the admissions requirements of the Graduate School, the Department of Physics & Astronomy requires graduate applicants to have a sound foundation in undergraduate physics. This foundation will normally include advanced courses in classical mechanics, electromagnetism and quantum mechanics. Applicants are encouraged to take the GRE physics subject exam. Applicants wishing to apply for financial aid in the form of a teaching assistantship, research assistantship or fellowship must supply letters of recommendation from three individuals familiar with their academic capabilities. Such applicants must also submit a written statement of their interests and background in physics.

Admissions requirements are the same for the M.S. and the Ph.D. programs except that applicants for the Ph.D. must possess an interest in carrying out original research at the advanced level.

Degree Requirements

The M.S. program can include an emphasis on basic or applied physics or physics education, and students are encouraged to take courses in related programs that satisfy the appropriate academic objectives. Before taking the M.S. oral exam, the M.S. student must have completed (with a B average):

Plan A (thesis):

30 credit hours in approved graduate courses including:

- 16 hours of regularly scheduled courses (excludes the following course types: research, independent study, practicum, residency)
- 16 hours with PHY prefix (not including 768 hours)
- 12 hours at the 600/700 level (not including 768 hours)
- 2 hours of PHY 770
- Up to 6 hours of PHY 768 (optional)

Plan B (non-thesis):

30 credit hours in approved graduate courses including:

- 20 hours of regularly scheduled courses (excludes the following course types: research, independent study, practicum, residency)

- 20 hours with PHY prefix
- 15 hours at the 600/700 level

Plant Pathology, MS

Applicants seeking admission to the M.S. program in the Department of Plant Pathology as regular students must have an awarded baccalaureate degree. Each M.S. student's program is guided by a Major Professor (Dissertation Director) and an Advisory Committee throughout the student's graduate career. The purpose of the Advisory Committee is to give the student continuity of direction and counsel and provide intellectual stimulation throughout residency to completion of the degree. The DGS, or a designee (usually the Major Professor), serves as advisor to beginning graduate students until the Advisory Committee is appointed. Most students enter the program having already committed to a Major Professor; however, there is an option for an incoming student who is supported on departmental assistantship or fellowship money to do two or three short lab rotations before choosing a Major Professor. This option is not available to students who are supported on individual grant funds. The Advisory Committee should be appointed before the end of the student's second semester. The Major Professor and Advisory Committee must be recommended to the Graduate School by the DGS. The DGS will approve the committee only if it meets all Graduate School requirements (below), provides a reasonable breadth and balance of expertise in the major and related disciplines, and presents no obvious conflicts of interest. Once the DGS has approved and recommended the committee, it will be officially appointed by the Graduate Dean. The Thesis Director and the Advisory Committee specifically set requirements (within the rules and regulations of the Plant Pathology program, Graduate School, and University), which the student must meet in pursuit of the degree.

The Department of Plant Pathology offers a primarily coursework non-thesis Master of Science degree, also called a "Plan B" Master's, designed for students seeking additional exposure and training in sub-disciplines within plant pathology without the emphasis placed on original research by the current thesis M.S. degree.

The PPA non-thesis master's degree option primarily involves academic course work followed by a written examination during the final semester of enrollment. The structured research component of the M.S. degree with thesis is not present in the non-thesis Plan B option. Since this option does not involve laboratory research, this degree track is suitable for working students. Students entering the Plan B Master's program will develop a curriculum based on their own interests, advice from a faculty advisor, the list of available classes, and the Graduate School guidelines for a non-thesis M.S. degree. Through this degree program, students can develop additional technical skills, expand their understanding in any of the major areas of plant pathology, and prepare themselves for additional educational opportunities or an upgrade in their employment position.

The typical length of time for completion of an M.S. non-thesis degree while enrolled as a part-time student is anticipated to be approximately six to eight semesters. The student will take a four-hour written exam after completing 30 graded graduate credits.

Admission Requirements

The Graduate School's requirements for admission are likewise the minimum requirements for acceptance into the M.S. program of the Department of Plant Pathology. However, additional materials are required for application to the Plant Pathology M.S. program. Each applicant must arrange for three letters of recommendation to be sent and must also provide a curriculum vitae and a written statement identifying the applicant's reasons for desiring to undertake studies in this department, to the Plant Pathology DGS. These materials, and those submitted to the Graduate School, are considered on a case-by-case basis by the department's Academic Program Committee, which then makes a recommendation on admission.

Admission to a graduate program in Plant Pathology does not guarantee financial assistance to the student. Applicants who are admitted will also be informed of any financial offer in a contract that they must sign in order to be admitted to the Graduate School.

Degree Requirements

All graduate students pursuing a M.S. degree in the Plant Pathology program ideally should have, or should obtain, a background in the following areas: mathematics through differential and integral calculus; physics; chemistry, including analytical, organic, and biochemistry; and the equivalent of introductory courses in botany, plant physiology, genetics, molecular biology, statistics and microbiology. The Academic Program Committee will inform the Major Professor and the student, in writing, of any relevant course deficiencies at the time of admission to the program. Deficiencies should be corrected early in the graduate program either by formal coursework or, with the approval of the Advisory Committee, by independent study. In some cases, the Advisory Committee may decide to waive certain of these requirements, depending on the student's background, goals, and interests. Agreements regarding remedial coursework, independent study, or waivers should be recorded in the notes of the meeting in which they were discussed and included in the student's file.

For enrolled students the limit is 6 years to complete all requirements, with the possibility of extensions approved by the Graduate School for an additional 4 years.

Coursework

For a M.S. degree, the Graduate School has the following minimum course requirements:

1. 30 total semester hours of graduate course work, with a GPA of at least 3.0. Courses that count toward fulfillment of this requirement are those with numbers from 500 to 799, and all 400-level courses with a G suffix that are outside the student's major (thus PPA 400G does not count for this requirement).
2. 16 hours of graduate course work in regular courses. PPA 768 , PPA 784 and PPA 794 do not count for fulfillment of this requirement
3. 12 hours of graduate course work in the student's major area (PPA).
4. 12 hours in 600 or 700 level courses.

Thesis

A Master's thesis must represent an original scholarly contribution by the student. This should not discourage collaboration by students in larger, multi-authored projects, but collaborative research must be undertaken very carefully to ensure that the student's contribution represents a complete, self-contained piece of work that can easily be considered an independent accomplishment. It is the responsibility of the student, the Major Professor, and the Advisory Committee to ensure that this is the case. **Basic Course Requirements:** All students are strongly encouraged to take PPA 400G (Principles of Plant Pathology), even if they have had a similar course previously. This course provides a common basis for subsequent required courses in the department and will allow international students to become conversant with domestic terminology and perspective in the discipline. Required courses for both the M.S. and Ph.D. are PPA 500

PHYSIOLOGY OF PLANT HEALTH AND DISEASE, PPA 600 CRITICAL METHODS IN PLANT-MICROBE INTERACTIONS, PPA 640 IDENTIFICATION OF PLANT DISEASES, PPA 641 PLANT DISEASE, POPULATION BIOLOGY, AND BIOTECHNOLOGY, and PPA 770 PLANT PATHOLOGY SEMINAR .

Individual Course Requirements: Elective courses will be determined by the student together with the Major Professor and Advisory Committee, taking into account the student's background, research topic, and area of specialization.

Plan B

During the first semester, the student will be assigned an advisor selected from the faculty in PPA with interests consistent with those of the student. Working with the faculty advisor, the student will complete a Program of Study having the depth and breadth to satisfy the requirements of the degree: The Program of Study should have, (1) an emphasis in a major area of plant pathology, and (2) a breadth of study in other areas of plant pathology such as biotechnology, molecular and cytological studies. During the student's first term of enrollment, the Program of Study must be submitted to the major professor for approval. By the beginning of his or her last semester, the student working with the faculty advisor, should submit faculty names to the DGS for final approval to form an advisory committee who will administer the exit exam. The DGS must approval all advisory committee members. This three-person committee is chosen from members of the graduate faculty in PPA who have agreed to serve. This committee will continue to advise the student and will administer the exit exam before the degree is awarded. Non-thesis (Plan B) Master's students in PPA must fulfill the general requirements as outlined by the Graduate School. Thirty (30) credit hours are required for the degree and students must pass a written exit exam in the last semester. The coursework requirements follow those set out by the Graduate School.

At least 20 credit hours must be graded graduate level courses (courses other than research or residency courses and that have a set meeting time), and at least 15 hours must be at the 600-700 level. Students may take courses numbered as 4xxG and 5xx in other departments with approval of the DGS. For the in-depth requirement of the degree, students are required to take a minimum of 20 credits in 500 or above level courses in PPA or other related programs such as IPSS, ENTO, etc. Of these, one credit hour must be taken as graduate seminar in PPA 770 or a relevant offering in another department with approval of the DGS. The exit exam will be at the end of the coursework, administered by the three-person committee to ensure the student is sufficiently familiar with scholarship in her/his chosen area of specialty,

Typically, the Department of Plant Pathology will not offer non-thesis M.S. students an assistantship. Students are expected to pay their tuition through other means. There are opportunities on a term by term basis for Plan B students to assist teaching PPA lab courses. Other sources of financial aid within UK or externally are also possible and the DGS will help to identify opportunities.

Political Science, MA

The M.A. degree may be earned under either of two plans: Plan A requires at least 30 hours, with 6 hours coming from 768 for the thesis; Plan B requires at least 30 hours of course work, passing (written and orals) in two fields of political science with a standing of a 3.0 GPA or higher, and satisfaction of the language or alternative skill requirement.

Under either plan, the student must take at least two-thirds of the required semester hours in political science, and at least half of the required hours must be in courses at the 600 or 700 level. All students pursuing the M.A. degree must take PS 671 (Strategies of Inquiry).

Admission Requirements

Candidates for admission to the graduate program in political science must apply using the Graduate College online application system. Required information includes (1) a copy of transcripts and GRE scores; (2) a one- to three-page Statement of Purpose explaining why the student wishes to pursue a Ph.D. degree; (3) three letters of recommendation from persons familiar with the applicant's academic performance; (4) a sample of writing on a topic relevant to political science; (5) a resume or curriculum vitae, and (6) TOEFL scores if the applicant's first language is not English. Applications will only be considered for the fall semester.

Applicants will be evaluated on the basis of the Department's judgment of the likelihood of their success in the program as compared with other applicants and considering the limited number of applicants accepted to the program. In evaluating candidates, the Department will consider the totality of their records, including grades, test scores, letters of recommendation, writing samples, and other relevant information. The department usually only accepts applicants to the Ph.D. program. Students who do not have political science undergraduate majors are welcome in this program.

Degree Requirements

30 credit hours

Required courses:

- Plan A: PS 671 and 6 credits of PS 768
- Plan B: PS 671

At least two-thirds of the semester hours in political science (excluding PS 768 hours)

At least half of the required hours must be in courses at the 600 or 700 level (excluding PS 768 hours)

Psychology - Clinical Psychology, MA

Students earn a MA/MS degree as part of their milestone towards earning their doctoral degree in the Clinical Psychology PhD program. The MA/MS degree in Clinical Psychology is not intended to be a stand-alone or terminal degree program. Students seeking only a MA or MS degree are not admitted to the program.

The Ph.D. program in Clinical provides academic courses, practica, and internships which permit students to combine their teaching and research activities with a clinical career in the mental health field. Special areas of expertise among clinical faculty include psychological assessment, child clinical psychology, health psychology, neuropsychology, personality, psychopathology and diagnosis, psychotherapy, research methodologies, and substance abuse. Clinical training is facilitated by early placement of students at a variety of sites including medical centers, a federal corrections facility, community mental health centers, state and private psychiatric hospitals, and the department's own psychological clinic. Our doctoral program is accredited by the American Psychological Association and by the Psychological Clinical Science Accreditation System.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for

example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Health Psychology Concentration
- Neuropsychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 30

Core requirements

- See requirements for Clinical Psychology PhD program

General information on electives

- Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Psychology - Clinical Psychology, MS

Students earn a MA/MS degree as part of their milestone towards earning their doctoral degree in the Clinical Psychology PhD program. The MA/MS degree in Clinical Psychology is not intended to be a stand-alone or terminal degree program. Students seeking only a MA or MS degree are not admitted to the program.

The Ph.D. program in Clinical provides academic courses, practica, and internships which permit students to combine their teaching and research activities with a clinical career in the mental health field. Special areas of expertise among clinical faculty include psychological assessment, child clinical psychology, health psychology, neuropsychology, personality, psychopathology and diagnosis, psychotherapy, research methodologies, and substance abuse. Clinical training is facilitated by early placement of students at a variety of sites including medical centers, a federal corrections facility, community mental health centers, state and private psychiatric hospitals, and the department's own psychological clinic. Our doctoral program is accredited by the American Psychological Association and by the Psychological Clinical Science Accreditation System.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Health Psychology Concentration
- Neuropsychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 30

Core requirements

- See requirements for Clinical Psychology PhD program

General information on electives

- Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Psychology - Experimental Psychology, MA

Students earn a MA/MS degree as part of their milestone towards earning their doctoral degree in the Experimental Psychology PhD program. The MA/MS degree in Experimental Psychology is not intended to be a stand-alone or terminal degree program. Students seeking only a MA or MS degree are not admitted to the program.

The Ph.D. program in experimental psychology is subdivided into cognitive neuroscience, and developmental, social, and health psychology. The Cognitive Neuroscience program is intended for students who wish to study the underlying neural systems of cognitive processes. It provides a strong background in both systems-level neuroscience and cognitive psychology and allows students to develop integrative research interests that cross domains. Research includes a range of topics and methodologies aimed at understanding mechanisms of behavior in laboratory animals and human subjects. Drug use and addictive behaviors are a key focus. Levels of analysis include cellular function, animal behavior, and human substance users. Methodologies include electrochemical measurements, chemogenetics, neuronal cell culture, psychopharmacology, analytical chemistry, quantitative modeling of cognitive functions and decision-making, and fMRI.

In the Developmental, Social, Health program, students typically receive primary conceptual and methodological training in Developmental Psychology, Social Psychology, OR Health Psychology (each are "tracks" within our program). This training will reflect the expertise of your advisor (and lab) in their respective subfield (e.g., Social Psychology) and will prepare you for the academic job market in this subfield. As some faculty in the Developmental, Social, and Health program are truly "hybrid" psychologists (equivalent expertise in Social and Developmental Psychology, for example), students may also gear training across subfields by pursuing relevant coursework, research collaborations, teaching experiences, etc.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Cognitive Neuroscience Area
- Developmental, Social, & Health Area
- Health Psychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 30

Core requirements

- See requirements for Experimental Psychology PhD program

General information on electives

- Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Psychology - Experimental Psychology, MS

Students earn a MA/MS degree as part of their milestone towards earning their doctoral degree in the Experimental Psychology PhD program. The MA/MS degree in Experimental Psychology is not intended to be a stand-alone or terminal degree program. Students seeking only a MA or MS degree are not admitted to the program.

The Ph.D. program in experimental psychology is subdivided into cognitive neuroscience, and developmental, social, and health psychology. The Cognitive Neuroscience program is intended for students who wish to study the underlying neural systems of cognitive processes. It provides a strong background in both systems-level neuroscience and cognitive psychology and allows students to develop integrative research interests that cross domains. Research includes a range of topics and methodologies aimed at understanding mechanisms of behavior in laboratory animals and human subjects. Drug use and addictive behaviors are a key focus. Levels of analysis include cellular function, animal behavior, and human substance users. Methodologies include electrochemical measurements, chemogenetics, neuronal cell culture, psychopharmacology, analytical chemistry, quantitative modeling of cognitive functions and decision-making, and fMRI. In the Developmental, Social, Health program, students typically receive primary conceptual and methodological training in Developmental Psychology, Social Psychology, OR Health Psychology (each are "tracks" within our program). This training will reflect the expertise of your advisor (and lab) in their respective subfield (e.g., Social Psychology) and will prepare you for the academic job market in this subfield. As some faculty in the Developmental, Social, and Health program are truly "hybrid" psychologists (equivalent expertise in Social and Developmental Psychology, for example), students may also gear training across subfields by pursuing relevant coursework, research collaborations, teaching experiences, etc.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include

theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Cognitive Neuroscience Area
- Developmental, Social, & Health Area
- Health Psychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 30

Core requirements

- See requirements for Experimental Psychology PhD program

General information on electives

- Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Public Administration, MPA

The Master in Public Administration (MPA) program offers a professional degree that prepares students for careers of leadership in public service as analysts and managers in the public, not-for-profit, and private sectors. Students enter the program with diverse academic backgrounds.

The MPA is available residentially (on-campus) and in distance learning (online).

Two dual degree programs are offered:

- a dual JD/MPA program and
- a dual Pharm.D./MPA degree.
- For more information about those programs, see Graduate Admission.

The MPA is also partnered with the following programs for the University Scholars Program:

- BA in Political Science
- Natural Resources and Environmental Science (NRES)
- BA in Agricultural Economics
- Undergraduates at Georgetown College

Admission Requirements

Students applying are expected to have taken MA 109 (College Algebra) or equivalent and ECO 201 (Introduction to microeconomics) or equivalent.

Applicants must be prepared to submit:

- A one-to-three-page statement explaining why you wish to pursue an MPA degree.
- A resume or CV.
- Transcripts from each post-secondary institution that you have attended. They can be unofficial for admission purposes, but official transcripts must be submitted upon enrollment.
 - Minimum of 2.75 GPA on all undergraduate coursework.
 - Minimum of 3.0 GPA on all previous graduate level coursework.
- The e-mail addresses of at least two individuals who have agreed to write a recommendation letter on your behalf. Ideally, at least one letter is from an academic reference.
- GRE or GMAT scores (optional). They can be unofficial for admission purposes, but official scores must be submitted upon enrollment.
- International students will also need English Language test scores.
 - Minimum of 79 on the internet based TOEFL, or
 - Minimum of 6.5 on the IELTS

Degree Requirements

Completion of a minimum of 40 credit hours of graduate work is required:

- An administrative core of 25 credit hours covering the areas of public policy formulation and analysis, public policy economics, organization and management, budgeting, finance, and analytical methods.
 - PA 602 STRATEGIC PLANNING AND ORGANIZATIONAL CHANGE IN THE PUBLIC AND NON- PROFIT SECTORS (3)
 - PA 621 QUANTITATIVE METHODS OF RESEARCH (3)
 - PA 622 PUBLIC PROGRAM EVALUATION (3)
 - PA 623 DECISION ANALYSIS AND SUPPORT SYSTEMS (3)
 - PA 631 PUBLIC FINANCIAL MANAGEMENT (3)

- PA 642 PUBLIC AND NONPROFIT ORGANIZATION THEORY AND BEHAVIOR (3)
- PA 651 THE POLICY PROCESS (3)
- PA 652 PUBLIC POLICY ECONOMICS (3)
- PA 691 ETHICS AND PUBLIC POLICY (1)
- An area of concentration of 9 credit hours in a stated area of specialization (public financial management, policy analysis, local economic development; non-profit management, environmental management, education policy, health policy, gerontology, international public policy, or transportation systems management) or in an individually designed concentration.
- Capstone Course and Capstone Project PA 681 CAPSTONE IN PUBLIC ADMINISTRATION (3). All students must take the 3-hour capstone class and successfully complete and defend a capstone project developed in that class. The purpose of the course and the project is to integrate the learning experience of the MPA program and apply knowledge and skills acquired in the program to a policy issue or management problem. Oral presentation of the project before a faculty committee serves as the final masters' exam.
- Internship: PA 711 INTERNSHIP IN PUBLIC ADMINISTRATION(3). An administrative internship at an appropriate agency for 400 hours. Students with a significant professional experience may substitute an independent study policy paper, a comparable special project, or an additional graduate course.

<https://martin.uky.edu/master-public-administration>

Public Administration, MPP

The MPP program offers a professional degree that prepares students for careers as professional policy analysts in government and non-profit organizations. Students enter the program with diverse academic backgrounds, but should have taken statistics, calculus, and intermediate microeconomics.

Admission Requirements

- A one-to-three page statement explaining why you wish to pursue an MPA degree.
- A resume or CV.
- Transcripts from each post-secondary institution that you have attended. They can be unofficial for admission purposes, but official transcripts must be submitted upon enrollment.
 - Minimum of 2.75 GPA on all undergraduate coursework.
 - Minimum of 3.0 GPA on all previous graduate level coursework.
- The e-mail addresses of at least two individuals who have agreed to write a recommendation letter on your behalf. Ideally, at least one letter is from an academic reference.
- GRE or GMAT scores (required). They can be unofficial for admission purposes, but official scores must be submitted upon enrollment.
- International students will also need English Language test scores.
 - Minimum of 79 on the internet based TOEFL, or
 - Minimum of 6.5 on the IELTS
- Through the University Scholars Program, students in the BA in Public Policy program can begin MPP coursework during their senior year of the undergraduate program. Admission requirements vary for this program - <https://martin.uky.edu/university-scholars-program>.

Degree Requirements

Completion of a minimum of 37 credit hours of graduate work is required.

- An administrative Core of 25 credit hours covering each of the following areas: statistics, public policy formulation and analysis, public policy economics, organization and management, budgeting, finance, and analytical methods.
 - PA 622 PUBLIC PROGRAM EVALUATION (3)
 - PA 624 GOVERNMENT INFORMATION SYSTEMS (3)
 - PA 631 PUBLIC FINANCIAL MANAGEMENT (3)
 - PA 642 PUBLIC AND NONPROFIT ORGANIZATION THEORY AND BEHAVIOR (3)
 - PA 651 THE POLICY PROCESS (3)
 - PA 652 PUBLIC POLICY ECONOMICS (3)
 - PA 690 PUBLIC POLICY ANALYSIS OVERVIEW (3)
 - PA 692 ECONOMETRICS FOR POLICY ANALYSTS (3)
 - PA 795 SPECIAL TOPICS IN PUBLIC ADMINISTRATION (1)
- An additional 3 credit hours of a guided elective in a policy field:
 - PPL 583 TAX POLICY (3), OR
 - PPL 584 ENVIRONMENTAL POLICY (3), OR
 - PPL 575 EDUCATION FINANCE AND POLICY (3)
- An area of concentration of 3 credit hours in an area of specialization. Must be approved by the Director of Graduate Studies-DGS.
- Capstone Course and Capstone Project PA 681 CAPSTONE IN PUBLIC ADMINISTRATION (3). All students must take the 3-hour capstone class and successfully complete and defend a capstone project developed in that class. The purpose of the course and the project is to integrate the learning experience of the MPP program and apply knowledge and skills acquired in the program to a policy issue or management problem. Oral presentation of the project before a faculty committee serves as the final masters' exam.
- Internship: PA 711 INTERNSHIP IN PUBLIC ADMINISTRATION (3). An administrative internship at an appropriate agency for 400 hours. Students with a significant professional experience may substitute an independent study policy paper, a comparable special project, or an additional graduate course.

<https://martin.uky.edu/master-public-policy>

Public Financial Management, MPFM

The Master of Public Financial Management (MPFM) program offers a professional graduate degree that prepares students for careers as professionals in public and non-profit sectors. The program is offered 100% online in an asynchronous format. The MPFM is designed for students with interests in public financial management, public sector accounting and auditing and other unique aspects of public finance. Students enter the program with diverse academic backgrounds and career goals. Courses are offered in 8-week and 4-week sessions. Students enroll in one course at a time and may complete the 36-credit program in two years. The course format and schedule allows working students and those juggling other responsibilities to complete the MPFM in a timely manner.

Admission Requirements

The MPFM application requires 1) a one to three page personal statement explaining interest in the MPFM degree, 2) resume or CV, 3) official transcripts from each post-secondary institution attended, and 4) two letters of recommendation. Applicants are encouraged to have had either an undergraduate course or work experience in accounting prior to admission however it is not a requirement for admission. As an online program, admission includes in-state tuition independent of the student's state of residency. International students also need English Language test scores. Deadlines for the program are the same as the Graduate School admission deadlines. Applications are accepted to the program in the Fall and Spring semesters. Applicants must meet all requirements as defined by the Graduate School including a minimum undergraduate GPA of 2.75. Competitive admission is based on a consideration of the documents listed above including work experience. The final selection of students for admission will be subject to the discretion of the admissions committee of the program.

Degree Requirements

Total credit hours: 36 credit hours

Core Requirements

All students must take the 3-hour capstone class and successfully complete and defend a capstone project developed in that class. The purpose of the course and the project is to integrate the learning experience within the MPFM program and apply knowledge and skills acquired in the program to a policy issue. The presentation of the Capstone project serves as the final Masters exam.

Courses in the MPFM program focus on many aspects of public financial management and are offered in Fall, Spring, and Summer semesters. The following shows the recommended sequence of course offerings by semester. Students may start the MPFM program in either the Fall or Spring semesters however Spring admission requires minor adjustments to the course sequence shown below. Courses are 8-week sessions unless otherwise indicated. Students may on a limited basis with approval of the Director of Graduate Studies substitute a course if necessary due to scheduling conflicts or other reasons. *Note: The first 4 courses listed below comprise a Graduate Certificate Program that may be taken independently of the full MPFM.*

Fall Year 1

- PA 631 PUBLIC FINANCIAL MANAGEMENT: Budgeting/Debt Management
- PA 632 PUBLIC FUNDS MANAGEMENT: Investments/Cash Management

Spring Year 1

- PA 625 GOVERNMENTAL ACCOUNTING AND FINANCIAL CONDITION ANALYSIS
- PA 627 GOVERNMENTAL AUDIT

Summer Year 1

- PA 626 APPLICATIONS IN GOVERNMENTAL ACCOUNTING AND AUDIT
- PA 696 LEGAL ISSUES IN PUBLIC FINANCIAL MANAGEMENT (4-week)

Fall Year 2

- PA 633 MUNICIPAL SECURITIES
- PA 695 DATA AND REVENUE FORECASTING

Spring Year 2

- PA 683 TAX POLICY
- PA 697 PUBLIC FINANCIAL POLICY ANALYSIS

Summer Year 2

- PA 694 PUBLIC PENSIONS AND INSURANCE (4-week)
- PA 681 CAPSTONE IN PUBLIC ADMINISTRATION (12-week)

For more information, please visit the University of Kentucky Martin School website.

Public Health, MPH

A defining characteristic of the area of public health is its focus on population groups rather than individuals. Public health professionals are concerned with the health of communities, relying heavily on collaboration with local, state, and national entities to improve the health status of their targeted populations. With the current interest in health care reform, bioterrorism and preparedness, concerns over managed care, and other factors impacting the nation's health care system, the need for highly trained public health professionals is increasing. The College of Public Health offers the Master of Public Health degree. The MPH is an applied professional/graduate degree designed for highly motivated students who have either a previously earned professional degree or a baccalaureate degree and substantial interest in public health. Unique sequencing of courses, community-based program activities, and field/laboratory research provide students with multiple opportunities to define their course of study in the four areas of concentration, , Epidemiology, Environmental/Occupational Health, Health Behavior, or Health Systems & Policy Analytics. The MPH. degree is designed to prepare graduates for entry and advancement in public health careers in public, non-profit and proprietary health care organizations.

Professionals with the MPH. hold important roles in a variety of public and private settings, e.g., local, state, and national health departments, health care facilities, military service, social service agencies, private industry, universities, and community-centered health education facilities. In these positions, they can be involved directly with the development, implementation and assessment of efforts to improve the health of the public and prevention of disease. The curriculum is designed to provide skills and knowledge upon which to build or enhance a career in public health. Unique sequencing of courses, community-based program activities, and field/laboratory research provide students with multiple opportunities to define their public health specialty and provide a broad overview of the disciplines of public health.

The Master of Public Health degree requires a minimum of 42 credit hours of study for completion. All students must complete a minimum of 18 semester hours of required core course work and at least 18 hours of specialty work in one of the four areas of concentration. In addition, a three credit-hour field practicum course (CPH 609), and a three credit-hour final integrative Capstone Project (CPH 608) are required. The dual MD/MPH. and PharmD/MPH. degrees are currently available.

Admission Requirements

Admission into the MPH program is competitive, and consideration is given to academic background, a history of service, interest in the field, a personal statement, career plans, and letters of recommendation. Applicants must also have achieved an acceptable score on the Graduate Record Examination (GRE) or the Graduate Management Admission test (GMAT). Applicants must complete a UK Graduate School Application and make a separate application through the Schools of Public Health Application Service (SOPHAS.org), the centralized application process for accredited schools/colleges of public health. Applications will not be reviewed until the SOPHAS application is completed. For additional information concerning the University of Kentucky, College of Public Health and its degrees, call (859) 218-2096, send e-mail to ukcph@uky.edu or go to <http://www.uky.edu/publichealth/>

Degree Requirements

The MPH Program is a total of 42-44 graduate-level credit hours. Students are also required to complete a non-thesis option capstone project.

Each student is required to pursue at least one concentration area from the following: Preventative Medicine and Environmental Health, Epidemiology, Health Behavior and Society, Health Systems and Policy Analytics. See concentration requirements for course requirements.

The program curriculum consists of the following core courses, required courses and concentration courses:

MPH Core Courses (required credit hours) - 24 to 25 Total Required Credit Hours

- CPH 663 INTRODUCTION TO PUBLIC HEALTH PRACTICE AND ADMINISTRATION* (1)
- CPH 643 MEASURING HEALTH BEHAVIOR: QUANTITATIVE & QUALITATIVE APPROACHES (3)
- CPH 650 PUBLIC HEALTH SYSTEMS ADMINISTRATION (3)
- CPH 605 EPIDEMIOLOGY (3)
- CPH 603 INTRODUCTION TO DATA ANALYSIS FOR PUBLIC HEALTH (3)
- CPH 621 UNDERSTANDING AND COMMUNICATING ENVIRONMENTAL HEALTH RISKS (3)
- CPH 672 EVIDENCED-BASED PUBLIC HEALTH PLANNING & PRACTICE (3)

- CPH 609 PUBLIC HEALTH PRACTICUM (3)
- CPH 608 PUBLIC HEALTH CAPSTONE (3)

*CPH 663 is NOT required for students who have a Bachelor of Public Health degree from a CEPH accredited program.

Concentration Requirements (required credit hours) - 8 to 19 Total Required Credit Hours

Each student is required to pursue at least one concentration area. Requirements are listed for each concentration below:

Environmental Health Concentration - 18 Required Credit Hours

- CPH 601 ENVIRONMENTAL HEALTH (3)
- CPH 620 OCCUPATIONAL HEALTH (3)
- CPH 622 TOXIC AGENTS AND THEIR IMPLICATIONS IN PUBLIC HEALTH (3)
- Electives (9 credit hours) - See your advisor for a complete list of electives.

Epidemiology Concentration - 18 Required Credit Hours

- CPH 712 ADVANCED EPIDEMIOLOGY (3)
- CPH 660 DISEASE MAPPING & DATA VISUALIZATION (3)
- CPH 612 INFECTIOUS DISEASE EPIDEMIOLOGY (3)
- CPH 615 CANCER EPIDEMIOLOGY (3) or CPH 711 CHRONIC DISEASE EPIDEMIOLOGY (3)
- Electives (6 credit hours) - See your advisor for a complete list of electives.

Health Behavior and Society Concentration - 19 Required Credit Hours

- CPH 604 FOUNDATIONS OF HEALTH BEHAVIOR I (2)
- CPH 674 FOUNDATIONS OF HEALTH BEHAVIOR II (2)
- CPH 648 ELIMINATING RACIAL & ETHNIC HEALTH DISPARITIES (3)
- CPH 746 RESEARCH METHODS AND PROGRAM EVALUATION FOR HEALTH BEHAVIOR (3)
- Electives (9 credit hours) - See your advisor for a complete list of electives.

Health Systems and Policy Analytics - 18 Required Credit Hours

- CPH 600 HEALTH SERVICES AND SYSTEMS ORGANIZATION (3)
- CPH 785 HEALTH POLICY (3)
- CPH 651 POPULATION HEALTH: MEASUREMENT, MANAGEMENT AND IMPROVEMENT (3)

- CPH 634 ANALYTICS METHODS FOR HEALTHCARE DATA (3)
- Electives (6 credit hours) - See your advisor for a complete list of electives.

Radiation Science, MSRMP

The Radiation Sciences Division in the College of Medicine offers a MS degree in Radiological Medical Physics. The program is accredited by The Commission on Accreditation of Medical Physics Education Programs (CAMPEP). The program covers all aspects of Medical Physics including Radiation Therapy Physics, Diagnostic Medical Imaging, and Nuclear Medicine Physics. However, an emphasis is placed on Radiation Therapy Physics through the Radiation Therapy Physics Practicum. This Practicum covers core components of clinical Therapy Medical Physics including Equipment Quality Assurance, Brachytherapy, Patient Specific Quality Assurance, and External Beam Treatment Planning. Student access to the Radiation Therapy clinic in the Radiation Medicine Department in the UK College of Medicine is extensive and is an important learning experience. Additional information is available on our website at <https://radiationmedicine.med.uky.edu/radiation-sciences-graduate-program>.

Admission Requirements

A BS in Physics is desirable, but at a minimum candidates must show the equivalence of a minor in physics in all undergraduate work, as defined by the American Board of Radiology and CAMPEP. To meet the Minor in Physics requirement, candidates must have completed the following: 1) Calculus through Ordinary Differential Equations; 2) The Calculus based introductory General Physics sequence with labs (2 semesters); and 3) Three upper division Physics electives (junior level or above). Courses in Human Anatomy, Human Physiology, Computer Science, and Scientific Statistics are preferred but, if missing, may be incorporated into the graduate program at the discretion of the Director of Graduate Studies. An undergraduate GPA of 3.25 is highly desirable. The General GRE exam is required. While there are no absolute minimum scores required, a score on the Verbal section at or above the 60th percentile and a score on the Quantitative section at or above the 70th percentile is desirable.

An interview is required of all applicants being considered for admission. Fluent spoken English skills are required and are assessed during the interview. In addition, observation or job shadowing of a certified clinical Medical Physicist is very important when considering applicants for admission. Three Letters of Recommendation and a personal statement are also required. The deadline for applications is April 30th, however, offers for admission are usually made early in the preceding Spring semester with completion of the class roster by May. Therefore, it is recommended that applications be completed by January 31 to assure full consideration.

Degree Requirements

The Master of Science in Radiological Medical Physics is an interdisciplinary, Plan B (non-thesis) program. However, a two credit hour clinical quality improvement research project is required. A minimum of 30 credit hours are required for graduation. Students must maintain a minimum 3.0 GPA for retention in the program and for graduation requirements. A coursework outline is as follows; credit hours shown in parentheses:

Required Courses (27 credit hours)

- RAS 472G/RM 472G INTERACTION OF RADIATION WITH MATTER (3)
- RAS 545/RM 545/PHY 545 RADIATION HAZARDS AND PROTECTION (3)
- RAS 546/ RM 546/PHY 546 GENERAL MEDICAL RADIOLOGICAL PHYSICS (3)
- RAS 601/RM 601 ADVANCED RADIATION DOSIMETRY (2)
- RAS 647/RM 647 PHYSICS OF DIAGNOSTIC IMAGING I (3)
- RAS 648/RM 648 PHYSICS OF DIAGNOSTIC IMAGING II (3)
- RAS 649/RM 649 PHYSICS OF RADIATION THERAPY (3)
- RAS 651 ADVANCED LABORATORY IN DIAGNOSTIC IMAGING PHYSICS (2)
- RAS 695/RM 695 RESEARCH IN HEALTH-RELATED RADIATION SCIENCES (2)
- RAS 710 RADIATION SCIENCE SEMINAR (SUBTITLE REQUIRED) (1)
- RM 740/BIO 740 MAMMALIAN RADIATION BIOLOGY (2)

Elective Courses (3 credit hours) Partial Listing

- RM 660 GRADUATE PRACTICUM IN RADIATION MEDICINE (1-6)
- RAS 650/RM 650 PHYSICS OF RADIATION THERAPY II: BRACHYTHERAPY PHYSICS (2)
- RM 842 RADIATION ONCOLOGY (1)
- RM 848 PRACTICUM IN BRACHYTHERAPY PHYSICS (1-3)
- RM 849 PRACTICUM IN EXTERNAL BEAM THERAPY PHYSICS (1-6)
- EE 630 DIGITAL SIGNAL PROCESSING (3)
- EE 635 IMAGE PROCESSING (3)

Research Methods In Education, MS

The Master of Science in Research Methods in Education (RMinE) prepares students for careers in settings such as academic institutions, testing organizations, school districts, and state and federal agencies. It is designed to provide a foundation in basic research methods within a problem-of-practice framework while allowing students a focused area of emphasis on Quantitative Methods, Evaluation, or Research Design. RMinE students have the option to complete the entirety of their coursework online.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A 250-word statement of purpose describing the student's intellectual and professional goals for completing the program
- Two letters of reference with at least one from a referee familiar with the students' academic work
- Resume or Curriculum Vitae
- Applications are reviewed on a rolling basis; apply anytime.

Degree Requirements

- The program requires 37 hours of coursework, all of which is available online.
- All EPE students are required to take EPE601 Proseminar (1 credit hour) during their first semester of study in the department.
- Core Classes (18 credit hours) include:
 - EPE 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA /EPE 558 GATHERING, ANALYZING & USING EDUCATIONAL DATA II
 - EPE 571 WRITING SEMINAR IN EDUCATIONAL RESEARCH
 - EPE 619 SURVEY RESEARCH METHODS IN EDUCATION (SUBTITLE REQUIRED)
 - EPE 620 TOPICS AND METHODS OF EVALUATION
 - EPE 663 FIELD STUDIES IN EDUCATIONAL INSTITUTIONS or EPE 797 HISTORICAL RESEARCH ON EDUCATION
 - 3 credit hour Contextual Studies Course
- Choice of Concentration (6 credit hours)
 - Quantitative Methods (EPE 558 GATHERING, ANALYZING & USING EDUCATIONAL DATA II and EPE 660 RESEARCH DESIGN AND ANALYSIS IN EDUCATION)
 - Evaluation (EPE 522 PSYCHOLOGICAL AND EDUCATIONAL TESTS AND MEASUREMENTS and EPE 621 ADVANCED TOPICS AND METHODS OF EVALUATION)
 - Research Design (EDP 656 METHODOLOGY OF EDUCATIONAL RESEARCH and EPE 797 HISTORICAL RESEARCH ON EDUCATION)
- Guided Electives (12 credit hours chosen in consultation with the student's advisor)
- A student's program of study may vary from this structure if they receive approval from their major advisor
- Masters Exam: At the end of the program, RMinE students are expected to be able to implement an evaluation, create and test an assessment, or design and conduct an advanced quantitative research study. RMinE students are required to write and be examined on a scholarly paper in order to graduate from the program.

Retailing and Tourism Management, MSRAT

The graduate program in the Department of Retailing and Tourism Management is philosophically committed to the well-being of individuals in their immediate environment. The program is designed to meet individual student interests and career objectives.

The graduate program leads to a Master of Science Retailing and Tourism Management with a formal option in HMT (Hospitality Management & Tourism) or MAT (Merchandising, Apparel and Textiles). The program is individualized to meet each student's career interests using a combination of course work, independent study, and research experience. Coursework in RTM is selected to either the HMT (Hospitality Management & Tourism) or MAT (Merchandising, Apparel and Textiles) focus.

Admission Requirements

- Undergraduate degree: applicant should have an awarded four year Bachelor's degree in hospitality, tourism management, merchandising, textiles, retailing, marketing, management, or a related degree
- Official transcripts - overall 2.75 GPA in all undergraduate coursework; 3.0 GPA in any graduate work
- Current resume
- Personal Statement: This should be a brief statement as to why the individual wishes to pursue a graduate degree in RTM
- TOEFL Score: Minimum 79 (for non-native English speakers)
- Three letters of recommendation

Degree Requirements

RTM Plan A (Thesis Plan)

- Credit Requirements:
 - RTM Plan A requires 30 semester hours of coursework including a thesis
- Course Requirements:
 - 12 semester hours of the following CORE COURSES
 - RTM 600 RESEARCH METHODOLOGY IN HUMAN ENVIRONMENTAL SCIENCES (3)
 - RTM 650 SURVEY OF CURRENT THEORIES AND LITERATURE (3)
 - STA 570 BASIC STATISTICAL ANALYSIS (3)
 - RTM 772 SEMINAR IN RETAILING AND TOURISM MANAGEMENT (3)
 - 12 semester hours of SUPPORT SELECTION from courses at the 500, 600 or 700 level with prefixes HMT, MAT, or other those approved by DGS
 - 6 semester hours of RTM 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE
 - 12 semester hours of course work at 600-700 level
 - 18 semester hours of regular courses (structured course and not independent study)

RTM Plan B (Non-Thesis Plan)

- Credit Requirements:

- RTM Plan B requires 30 semester hours of coursework including an industry experience
- Course Requirements:
 - 12 semester hours of the following CORE COURSES
 - RTM 600 RESEARCH METHODOLOGY IN HUMAN ENVIRONMENTAL SCIENCES (3)
 - RTM 650 SURVEY OF CURRENT THEORIES AND LITERATURE (3)
 - STA 570 BASIC STATISTICAL ANALYSIS (3)
 - RTM 772 SEMINAR IN RETAILING AND TOURISM MANAGEMENT (3)
 - 12 semester hours of SUPPORT SELECTION from courses at the 500, 600 or 700 level with prefixes HMT, MAT, or other those approved by DGS
 - 6 semester hours of RTM 690 INDUSTRY EXPERIENCE IN RETAILING AND TOURISM MANAGEMENT
 - 15 semester hours of course work at 600-700 level
 - 18 semester hours of regular courses (structured course and not independent study)

Program Website

<http://rtm.ca.uky.edu/content/graduate-programs>

Science Translation and Outreach, MS

The College of Agriculture, Food, and Environment offers a fully online Master of Science (MS) degree in Science Translation and Outreach (Plan B Non-thesis option).

This transdisciplinary non-thesis Master of Science degree program builds student capacity to:

1. Assess public needs and interests with respect to agriculture, food and environment
2. Identify, sort and interpret credible scientific information from diverse fields relevant to public concerns
3. Use scientific information to create successful programs in applied research and outreach which effectively address public concerns.

Admission Requirements

- Completion of an undergraduate degree
- One to two-page resume or CV
- Personal statement describing your background and interest in the program
- Official transcripts from all post-secondary studies
- Three letters of recommendation

Degree Requirements

- Science Translation and Outreach students complete 12 hours of core courses and 18 hours of elective courses.
- You will create your individualized plan of study with the help of a faculty committee and culminate your degree with a real-world capstone outreach or research project.
- Four core courses:
 - STO 601 PROGRAM DEVELOPMENT AND EVALUATION (3 credit hours; CLD 665/SOC 665)
 - STO 602 SCIENCE LITERACY AND TRANSLATION (3 credit hours)
 - STO 603 RESEARCH METHODS (3 credit hours)
 - STO 650 CAPSTONE IN SCIENCE TRANSLATION AND OUTREACH (3 credit hours)
- Elective courses are selected and justified as a part of a personalized plan of study with the approval of a student's advisory committee and the STO Director of Graduate Studies.
- <https://sto.ca.uky.edu/>

Science, Technology, Engineering, and Mathematics Education, MSEDU

The Department of STEM Education offers programs leading to a Masters of Science in STEM Education and offers a strand option in the Education Sciences PhD program (see Education Sciences for more info). The MS in STEM Education program is a 30-hour program designed to prepare candidates for advanced roles in K-12 educational settings in the STEM content areas or for a terminal degree route in a STEM Education field. Full-time students in the STEM Education graduate programs are not required to serve in a funded assistantship, but those interested are eligible for the positions available. Part-time enrollment in the program is allowed and the program can be completed in evening hours

Admission Requirements

Admission to the MS in STEM Education program requires completion of a bachelor's degree from an accredited institution of higher education. While this degree does not have to be specific to a STEM Education field, the applicant does need to have strong content knowledge and an interest in the STEM field as evidenced by the rest of the application materials. The applicant must have adequate GRE scores, GPA of at least 2.75 at the undergraduate level and 3.0 at the graduate level, transcripts from previous institutions, a statement of career goals, and three letters of recommendation. The TOEFL is required for students in which English is not their first language. Once the application has been reviewed, applicants will be required to participate in an impromptu writing sample and interview with STEM Education faculty before a final admission decision is determined.

Degree Requirements

The department offers a variety of coursework in order to design a degree program that best meets the needs of the students in the program. Each student in the MS in STEM Education program is required to

complete 12 hours of a specialization in a STEM content area (non-STEM Education courses). With the addition of 6 hours of electives, candidates in the program can acquire 18 hours of graduate coursework in a content area to meet the minimum guidelines needed to teach college-level courses in that content area. The remaining 12 hours of the program are dedicated to STEM Education coursework.

<https://education.uky.edu/stem/graduate/ms/>

Secondary STEM Education, MAT

The MAT in Education will provide candidates interested in teaching secondary STEM disciplines with a Master of Arts in Teaching (MAT), allowing you to teach appropriate courses in grades 8-12. You will need an undergraduate degree (or recognized equivalent) in the STEM discipline to be admitted. This program is designed as a hybrid online/on-campus format and gives students two pathway options: one-year pathway and two-year pathway. Additionally, you will need to have passed the GRE or equivalent Praxis exams. The program follows a clinical model and provides student with ample practical experience with a sequence of university research / industry externships, diverse field placements, and student teaching. Students will need to successfully complete the Praxis exam in their area of certification, as well as the Principles of Learning and Teaching (PLT) Praxis. The remaining exit requirements for program completion include a passing mark on the master's exam and completion of an online portfolio of key assignments tagged with accompanying standards. Meeting the exit requirements will result in an approval for certification to accompany the approval to receive the master's degree.

Admission Requirements

Admission to the MAT in STEM Education program requires completion of a bachelor's degree in a STEM field from an accredited institution of higher education. The applicant must have passing GRE scores or equivalent Praxis test, GPA of at least 2.75 at the undergraduate level, transcripts from previous institutions, a statement of career goals, and three letters of recommendation. The TOEFL is required for students in which English is not their first language. Once the application has been reviewed, applicants will be required to participate in an impromptu writing sample and interview with STEM Education faculty before a final admission decision is determined.

Degree Requirements

Once admitted, you will be required to attain 31 credits. The required coursework will include a sequence of methods / seminar classes, as well as classes in core education areas such as educational psychology, special education, education policy, literacy, and assessment. Students in this program will also need to complete six elective credits from options within the College of Education or the College of Arts & Sciences, to be approved by the appropriate program chair.

<https://education.uky.edu/stem/graduate/mat/>

Social Work, MSW

An MSW degree prepares students to facilitate change in working with people, families and communities. The MSW program is open to all undergraduate degrees and may be completed full time or part time, in either a hybrid or online format, and is accredited by the Council on Social Work Education (CSWE). The MSW is an Advanced Generalist program and prepares students for social work practice across the micro-macro continuum with diverse populations. In addition, students may complete certificates in multiple areas (including clinical practice, child welfare, substance misuse, military behavioral health, school social work) or students may complete coursework specific to an individualized plan of study to be meet their area of interest. Finally, the college offers two cognate areas that provide student funding, integrated behavioral health (IBH) with social workers in primary care settings and substance use disorder (SUD) that provide funding for students to serve in practicums with SUD prevention and intervention agencies in underserved populations.

Students may attend hybrid classes on UK's main campus in Lexington or asynchronously online. The Army MSW program is offered at Fort Sam Houston in San Antonio, Texas and is a selective admission process through the Department of Defense.

Degree Requirements

UK College of Social Work offers full-time and part-time plans of study to earn a Master of Social Weork (MSW).

Our regular standing MSW is a 60-credit program that consists of:

- Fifty one credits of classwork-including 12 hours of electives
- Nine credits of fieldwork experience.

Our advanced standing MSW is a 30-credit program that consists of:

- Twenty four credits of classwork-including 9 hours of electives for 30 credit program
- Six credits of fieldwork experience.

Plans of study for each of the programs can be found: <https://socialwork.uky.edu/academics/msw/about-msw/>.

MSW Advanced Generalist 60 Hour -- Foundational Courses

- SW 600 SOCIAL WORK PRACTICE WITH INDIVIDUALS AND FAMILIES
- SW 602 THEORY-INFORMED SOCIAL WORK PRACTICE WITH GROUPS
- SW 620 UNDERSTANDING THEORY IN SOCIAL WORK PRACTICE
- SW 621 UNDERSTANDING POVERTY, INEQUALITY, AND INJUSTICE: FOUNDATIONS OF PRACTICE
- SW 625 INTRODUCTION TO SOCIAL WORK: PROFESSIONAL BEHAVIOR AND ETHICS
- SW 630 INTRODUCTION TO SOCIAL WELFARE POLICY AND SERVICES
- SW 636 SOCIAL WORK PRACTICE WITHIN ORGANIZATIONS AND COMMUNITIES I
- SW 640 FOUNDATION PRACTICUM
- SW 650 RESEARCH METHODS IN SOCIAL WORK

MSW Advanced Generalist 30/60 Hour Core Courses

- SW 722 PSYCHOPATHOLOGY FOR SOCIAL WORK PRACTICE
- SW 724 ADVANCED PRACTICE WITH INDIVIDUALS AND FAMILIES: ASSESSMENT AND TREATMENT PLANNING
- SW 731 ADVANCED SOCIAL WELFARE POLICY AND ANALYSIS
- SW 733 SOCIAL WORK PRACTICE WITHIN ORGANIZATIONS AND COMMUNITIES II: INTERVENTION AND EVALUATION
- SW 740 ADVANCED SOCIAL WORK PRACTICUM I
- SW 741 ADVANCED SOCIAL WORK PRACTICUM II
- SW 750 APPLIED RESEARCH METHODS IN SOCIAL WORK

General information on electives:

At the University of Kentucky, we have certificates in Clinical Social Work, Substance Misuse, Child Welfare, School Social Work, Military Behavioral Health, etc. which allow students to add an additional academic credential through the electives in the MSW program. If there is not a certificate that appeals, students can certainly create an individualized academic experience through a combination of electives.

- SW 505 CHILD WELFARE SERVICES
- SW 515 MEDICAL AND PSYCHOSOCIAL ASPECTS OF DISABILITIES: PHYSICAL DISABILITY
- SW 516 MEDICAL AND PSYCHOSOCIAL ASPECTS OF DISABILITIES: PSYCHIATRIC DISABILITIES
- SW 518 INTERNATIONAL SOCIAL WORK
- SW 519 UNDERSTANDING INTIMATE PARTNER VIOLENCE
- SW 520 UNDERSTANDING THE DIVERSE NEEDS OF CHILDREN AND ADOLESCENTS
- SW 523 SOCIAL PERSPECTIVES ON RACISM AND ETHNIC PREJUDICES IN AMERICA
- SW 524 SUBSTANCE MISUSE
- SW 530 RESPONDING TO MILITARY AND VETERAN POPULATIONS
- SW 550 CHILD SEXUAL ABUSE: ASSESSMENT AND INTERVENTION
- SW 571 SOCIAL WORK AND THE LAW
- SW 580 TOPICAL SEMINAR IN SOCIAL WORK
- SW 616 SOCIAL WORK PRACTICE IN SCHOOL SETTINGS
- SW 626 FORENSIC MENTAL HEALTH: EVALUATION AND TREATMENT
- SW 702 SUBSTANCE MISUSE, VIOLENCE AND RISK MANAGEMENT
- SW 726 PSYCHOPATHOLOGY FOR CLINICAL SOCIAL WORK
- SW 728 COMPARATIVE TREATMENT MODALITIES
- SW 730 EVIDENCE-BASED PRACTICE FOR SOCIAL WORKERS
- SW 737 NON-PROFIT MANAGEMENT IN HUMAN SERVICE ORGANIZATIONS
- SW 738 GUIDED INDEPENDENT WORK: MILITARY AND VETERAN POPULATIONS

Sociology, MA

The Sociology graduate program offers Master of Arts and Doctor of Philosophy degrees. Plan A or B are both options for the Master's degree. Graduate students choose an area of specialization related to the following faculty areas of expertise: Crime, Law, and Deviance; Environment and Society; Health and

Medical Sociology, and Social Inequalities. Additionally, students must demonstrate competence in sociological theory and social science methods.

To aid in financing graduate education, a number of teaching or research assistantships are available to qualified students. Outstanding students may compete for fellowships.

Opportunities for multidisciplinary work exist in conjunction with centers and programs at the University of Kentucky including the Appalachian Center and Appalachian Studies, Center for Health Equity Transformation, Center for Research on Violence Against Women, Prevention Research Center, Center on Drug and Alcohol Abuse, Center for Poverty Research, Committee on Social Theory, Commonwealth Institute for Black Studies, Cooperative for Humanities and Social Sciences, Gender and Women's Studies, Quantitative Initiative for Policy and Social Research, and the Sanders-Brown Center on Aging. Assistantships and traineeships are also available to qualified sociology graduate students through these centers and programs.

Admission Requirements

The following materials are required to apply for admission to the graduate program in Sociology and should be sent directly to the Graduate School's application system's website. Any inquiry on the program requirements and the admission process should be directed to the Director of Graduate Studies of the Department of Sociology.

- The percentile rankings of the three components of the Graduate Record Examination (GRE) must average (mean) at least 50 percent.
- A statement of goals and reasons for pursuing an advanced degree in sociology. It is helpful if applicants also address the field(s) of interest within sociology they may wish to pursue in their graduate studies.
- A sample of writing, preferably in the form of a term paper, an extensive essay, or a draft of a senior thesis. If the applicant has completed a master's degree, she or he may submit one or two chapters from the master's thesis. Please do not submit a copy of the entire master's thesis.
- Three letters of recommendation.
- Undergraduate and graduate transcripts, if applicable.
- TOEFL/IELTS scores, if applicable.

Degree Requirements

36 total credit hours pre-residency

Core requirements

- SOC 681 QUANTITATIVE ANALYSIS I
- SOC 781 QUANTITATIVE DATA ANALYSIS II
- SOC 651 CLASSICAL SOCIOLOGICAL THEORY

- SOC 751 CONTEMPORARY SOCIOLOGICAL THEORY
- SOC 680 SOCIAL INVESTIGATION

Students are also required to take an addition 6 credit hours of social science research methods from a wide selection of approved courses.

Of the 15 hours of electives, 12 must be sociology courses and 12 must be in the student's area of specialization.

MA students must also pass a comprehensive exam and a "Plan B" second-year paper defense.

<https://soc.as.uky.edu/sociology-graduate-program>

Special Education, MSEDU

The 30-hour master's degree can be completed on a part-time basis over the course of five semesters (2.5 calendar years). The courses are offered in a face-to-face format for local students and in an online format for those students who are not local. Students taking the online version of the program attend courses virtually and can interact with professors and classmates in real-time. All classes take place in the evenings to allow teachers to complete their workday prior to attending class. Taking the GRE is not required for entry. Admission is accepted for both Fall and Spring semesters, however the core courses begin in Fall semesters, therefore a Spring admission may not be appropriate unless the student requires some prerequisite coursework.

The master's degree has three options for specialization. The focus area the student chooses will shape the coursework, research projects, and clinical experiences in which the student will participate. The focus areas include:

1. The Moderate and Severe Disabilities Track is available for teachers who hold certification in moderate and severe disabilities.
2. The Learning and Behavior Disorders Track (not available online) is available for teachers who hold certification in learning and behavior disorders.
3. The Assistive Technology track is open to teachers with either type of certification in special education.

Admission Requirements

To be admitted to the master of science in special education program, students need to be certified in special education or have an undergraduate degree in special education. Students must have a minimum undergraduate cumulative grade point average of 2.75.

Degree Requirements

Total credit hours

- 30 hours

Core requirements

Core requirements include the following courses:

- EDS 601 CONCEPTS AND PRINCIPLES OF APPLIED BEHAVIOR ANALYSIS (3)
- EDS 618 ASSESSMENT AND TREATMENT OF PROBLEM BEHAVIOR (3)
- EDS 630 ADVANCED METHODS FOR TEACHING STUDENTS WITH DISABILITIES (3)
- EDS 633 SINGLE CASE RESEARCH METHODOLOGY (3)
- EDS 634 LEADERSHIP IN SPECIAL EDUCATION (3)
- EDS 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE PROGRAM (1-3)

Additional coursework by Focus Area:

MSD Focus

- EDS 631 ADVANCED PROGRAMMING FOR STUDENTS WITH MODERATE AND SEVERE DISABILITIES (3)
- EDS 632 ADVANCED PRACTICUM: MODERATE AND SEVERE DISABILITIES (6)

LBD Focus

- EDP 557/EPE 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA (3)
- EDS 610 ADVANCED EDUCATIONAL ASSESSMENT FOR STUDENTS WITH MILD DISABILITIES (3)
- EDS 611 CONTEMPORARY TRENDS AND ISSUES IN THE EDUCATION OF STUDENTS WITH MILD DISABILITIES. (3)

AT Focus

- EDS 640 ASSISTIVE TEACHING (3)
- EDS 641 ASSISTIVE TECHNOLOGY ASSESSMENT (3)
- EDS 648 COORDINATING ASSISTIVE TECHNOLOGY PROGRAMS (3)

Electives

Students may choose from 2-5 credit hours of electives including:

- EDC 454G/EPE 454G CULTURE, EDUCATION AND TEACHING ABROAD (3)
- EDC 724 GUIDING AND ANALYZING EFFECTIVE TEACHING (3)
- HDI 604 INTERDISCIPLINARY LEADERSHIP SEMINAR (2)
- HDI 605 INTERDISCIPLINARY LEADERSHIP PRACTICUM (2)
- Select from EDL Teacher Leadership Courses (2)

<https://education.uky.edu/edsrc/eds/degrees-programs/masters/>

Sport and Exercise Psychology, MS

The field of sport and exercise psychology is an interdisciplinary science that explores the relationship between various psychological factors and participation in sport and/or physical activity. The two-year program in the Department of Kinesiology and Health Promotion offers students the choice to pursue a graduate education in the field of sport and exercise psychology by either following an applied or research track. Each option integrates theory-based research and the application of key concepts associated with performance enhancement and life skill development. In this context, successful completion of this program will result in a strong understanding of the various psychosocial factors that influence sport participation and performance. Upon admission to the program, students will be assigned a faculty advisor who will assist in course selection and planning. The exact program of study specified in an individual program plan will depend on previous coursework and/or individual goals.

Admission Requirements

Applicants must meet the following criteria for admission:

- An undergraduate degree in a field closely related to sport and exercise psychology (e.g., psychology, exercise science, health sciences, sport management, etc.).
- A minimum cumulative undergraduate GPA of 2.75 (on 4.0 scale)

Application Requirements

- Official undergraduate transcript
- An updated CV or professional resume
- Three letters of recommendation. At least two from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).
- A professional goal statement describing the applicants professional background, motivations for seeking a graduate education in SEP, why the current program and desired track are an ideal fit, and career/research aspirations.

Degree Requirements

Disciplinary Core Required Courses:

- KHP 547 PSYCHOLOGY OF SPORT AND PHYSICAL ACTIVITY (3)
- KHP 580 GROUP DYNAMICS IN SPORT AND PHYSICAL ACTIVITY (3)
- KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3)

Suggested Electives (Choose 3):

- EDP 614 MOTIVATION AND LEARNING (3)
- KHP 605 PSYCHOLOGICAL ASPECTS OF SPORT INJURY AND REHABILITATION (3)
- KHP 673 HEALTH PROMOTION AND BEHAVIOR CHANGE (3)
- KHP 674 FOUNDATIONS OF HEALTH PROMOTION (3)
- KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT (3)
- KHP 683 LEADERSHIP, THEORY, AND PRACTICE IN SPORT AND FITNESS ORGANIZATIONS (3)
- KHP 720 SPORTS MEDICINE (3)

TOTAL: 18 credit hours

Professional Practice Core Required Courses:

- EDP 605 INTRODUCTION TO COUNSELING: TECHNIQUES I (3)
- EDP 688 ETHICAL AND LEGAL ISSUES IN PSYCHOLOGY (3)
- KHP 689 INTERNSHIP IN SPORT AND EXERCISE PSYCHOLOGY (150 hours per 3.0 credit hours) (6)

Suggested Electives (Choose 1):

- EDP 600 LIFE SPAN HUMAN DEVELOPMENT AND BEHAVIOR (3)
- EDP 642 INDIVIDUAL ASSESSMENT OF PERSONALITY FUNCTIONING (3)
- EDP 649 GROUP COUNSELING (3)
- EDP 650 DIAGNOSIS AND PSYCHOPATHOLOGY IN COUNSELING PSYCHOLOGY (3)
- EDP 777 SEMINAR IN COUNSELING PSYCHOLOGY (3)
- SW 530 RESPONDING TO MILITARY AND VETERAN POPULATIONS (3)

TOTAL: 15 credit hours

Statistics/Research Design Disciplinary Core Required Courses:

- EDP 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA (3) OR EDP 558 GATHERING, ANALYZING & USING EDUC DATA (3)
- KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3)

TOTAL: 6 credit hours

Sport Psychology Disciplinary Core Required Courses:

- KHP 547 PSYCHOLOGY OF SPORT AND PHYSICAL ACTIVITY (3)
- KHP 580 GROUP DYNAMICS IN SPORT AND PHYSICAL ACTIVITY (3)
- KHP 684 DIVERSITY IN SPORT & FITNESS ORGANIZATIONS (3)

Suggested Electives (Choose 2):

- EDP 614 MOTIVATION AND LEARNING (3)
- KHP 605 PSYCHOLOGICAL ASPECTS OF SPORT INJURY AND REHABILITATION
- KHP 673 HEALTH PROMOTION AND BEHAVIOR CHANGE
- KHP 674 FOUNDATIONS OF HEALTH PROMOTION
- KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT
- KHP 683 LEADERSHIP, THEORY, AND PRACTICE IN SPORT AND FITNESS ORGANIZATIONS
- KHP 720/AT 720 SPORTS MEDICINE (3)

TOTAL: 15 credit hours

Sport Psychology Professional Practice Core Required Course:

- EDP 605 INTRODUCTION TO COUNSELING: TECHNIQUES I (3)

Suggested Electives (Choose 2):

- EDP 600 LIFE SPAN HUMAN DEVELOPMENT AND BEHAVIOR
- EDP 642 INDIVIDUAL ASSESSMENT OF PERSONALITY FUNCTIONING
- EDP 649 GROUP COUNSELING
- EDP 688 ETHICAL AND LEGAL ISSUES IN PSYCHOLOGY
- EDP 777 SEMINAR IN COUNSELING PSYCHOLOGY
- SW 530 RESPONDING TO MILITARY AND VETERAN POPULATIONS (3)

TOTAL: 9 credit hours

Statistics/Research Design Disciplinary Core Required Courses:

- EPE 558 GATHERING, ANALYZING & USING EDUCATIONAL DATA II (3)
- KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3)
- KHP 748 MASTER'S THESIS RESEARCH (3)

Suggested Electives (Choose 1)

- KHP 695 INDEPENDENT STUDY IN KINESIOLOGY AND HEALTH PROMOTION (3)
- EDP 660 RESEARCH DESIGN AND ANALYSIS IN EDUCATION (3)
- SW 772 INTRODUCTION TO QUALITATIVE RESEARCH (3)

TOTAL: 15 credit hours

PROGRAM TOTAL: 39 credit hours (minimum)

Statistics, MS

The Department of Statistics offers programs of study leading to the degrees of Master of Science (Plan A or B available), Doctor of Philosophy, and Master of Applied Statistics (Online). The M.S. degree is professionally oriented for the student who plans a career in government, business or industry and is preparatory for the Ph.D. The Ph.D. program offers a broad training in both statistical theory and methods while affording options to suit the student's interests. The statistics Ph.D. is well-suited for academic, business, government and industrial positions. In addition to formal course work and research training, the advanced student has opportunities to gain valuable practical experience by participating in consulting activities under faculty supervision. Master of Applied Statistics is an innovative, online professional graduate degree which is designed to train professional, practice-oriented statisticians who have both data analytic and computing skills.

Both, the M.S. and the Ph.D. program offer a Mathematical Statistics track, as well as a Biostatistics track. The latter tracks are designed for students who envision a future at the interface of Statistics and the Life Sciences.

Course work is available in areas associated with statistics such as biological modeling, probability, inference, experimental design and analysis, computational statistics, nonparametric methods, Bayesian analysis, mixed modeling, multivariate analysis, survival analysis, clinical trials, and many other selected topics of the student's choice.

The University of Kentucky is represented on the Committee on Statistics of the Southern Regional Education Board.

Admission Requirements

Students with an undergraduate major in any of the mathematical, physical, biological, social or applied sciences are encouraged to apply.

The minimum GRE and GPA admissions requirements for the M.S. and Ph.D. programs in Statistics are the same as for the Graduate School. However, the number of admissions is limited and admissions decisions are made on a competitive basis. All M.S. applicants must have successfully completed a three or four semester sequence in calculus and a course in linear algebra and have good communication skills. In addition, all Ph.D. applicants must have mastered the equivalent of MA 471G. All Master of Applied Statistics applicants must have completed two semesters of calculus and a course in statistical methodology. Students wishing to apply for teaching assistantships and/or fellowships must submit three letters of recommendation. Applicants wishing to be admitted directly to the Ph.D. program must have an M.S. in Statistics and the permission of the Director of Graduate Studies.

Please see the departmental website for up-to-date information and answers to frequently asked questions about the admissions process.

Degree Requirements

The Statistics Department offers the degree of Master of Science with (Plan A) or without (Plan B) a thesis, and in two different tracks: a Mathematical Statistics track and a Biostatistics track.

Shared Core (Required for all students)

- STA 602 INTRODUCTION TO STATISTICAL METHODS (4)
- STA 603 INTRODUCTION TO LINEAR MODELS AND EXPERIMENTAL DESIGN (4)
- STA 605 COMPUTATIONAL INFERENCE (3)
- STA 606 THEORY OF STATISTICAL INFERENCE I (3)
- STA 623 THEORY OF PROBABILITY (3)
- STA 632 LONGITUDINAL DATA ANALYSIS (3)

Mathematical Statistics Track

Curriculum requirements for the Mathematical Statistics track are the shared core courses above, plus the following courses:

- STA 607 THEORY OF STATISTICAL INFERENCE II (3)
- STA 624 APPLIED STOCHASTIC PROCESSES (3)
- STA 643 ADVANCED EXPERIMENTAL DESIGN (3)

Biostatistics Track

Curriculum requirements in the Biostatistics track are the shared core courses above, plus:

- STA 635 SURVIVABILITY AND LIFE TESTING (3)
- STA 653 CLINICAL TRIALS (3)
- STA 665 ANALYSIS OF CATEGORICAL DATA (3)

- STA 693 BIOSTATISTICAL PRACTICUM (2) 1 unit course in each of the two semesters in the second year

Programs of study for Plan B require a total of at least 35 semester hours. Students will typically fulfill this requirement by taking electives (additional courses besides the shared core and track requirements) in the Fall and Spring of their second year. Programs of study for Plan A (with thesis) require a total of at least 30 semester hours which are satisfied by either of the two course lists above plus 1 or more hours of STA 768 or additional coursework.

The electives can be selected from the menu of courses listed below. Before the end of the second semester, the M.S. candidate must present a proposed plan of study for approval by the Director of Graduate Studies. There are no formal minor requirements.

Comprehensive Exams

All master's candidates are required to pass a comprehensive departmental written examination on the content of the courses STA 602 , STA 603 , STA 605 , STA 606 , and STA 623 . This examination is normally administered in late May/early June. It is truly comprehensive also in the sense that all parts must be taken together: If a student decides not to take a part of the examination, that part is automatically counted as failed. Students taking the comprehensive exam will receive either a pass at the doctoral level, a pass at the master's level, or a failure. The examination may be repeated only once. Successful completion of the comprehensive examination at the doctoral level is required for admission into the PhD program.

Electives

The electives may be chosen from any course in the following menu that is NOT used as a track requirement.

- MA 471G ADVANCED CALCULUS I (3)
- STA 607 THEORY OF STATISTICAL INFERENCE II (3)
- STA 612 SEQUENTIAL ANALYSIS (3)
- STA 616 Design and Analysis of Sample Surveys (3)
- STA 621 NONPARAMETRIC INFERENCE (3)
- STA 624 APPLIED STOCHASTIC PROCESSES (3)
- STA 626 TIME SERIES ANALYSIS (3)
- STA 630 BAYESIAN INFERENCE (3)
- CPH 631 (3) Design and Analysis of Health Survey
- STA 635 SURVIVABILITY AND LIFE TESTING (3)
- CPH 636 Data Mining in Public Health (3)
- STA 643 ADVANCED EXPERIMENTAL DESIGN (3)
- STA 644 ADVANCED LINEAR AND NONLINEAR MODELS (3)
- STA 653 CLINICAL TRIALS (3)
- STA 661 MULTIVARIATE ANALYSIS I (3)
- STA 662 RESAMPLING AND RELATED METHODS (3)
- CPH 664 (3) Design and Analysis of Clinical Trials
- STA 665 ANALYSIS OF CATEGORICAL DATA (3)

Any course on this list NOT required for the chosen track may be used as an elective. Thus, for example, STA 665 would count as an elective for the Mathematical Statistics track, but it is a track requirement for the

Biostatistics track. Similarly, STA 624 would be an elective for the Biostatistics track but is a track requirement for the Mathematical Statistics track.

A student who takes both STA 653 and CPH 664 may only receive credit towards the degree for one of these two courses.

All students, master's and doctoral, will be required to take part in an internship program. This will usually consist of teaching (three or six semester hours) or an equivalent amount of work in a research assistantship working with researchers across campus.

Strategic Human Resource Management and Analytics, MS

The Master of Science in Strategic Human Resource Management and Analytics (MS-SHRMA) offered in the Gatton College of Business and Economics prepares students with the knowledge, skills, and abilities needed to elevate a career in HR. In addition to fundamental HR courses, students will be exposed to coursework in HR-based analytics (people analytics, organizational network analysis, research methods, and HRIS) as well as strategic HR (strategic planning and integration, change management, and negotiations and conflict resolution). The program includes an experiential capstone course giving students the opportunity to apply principles and techniques learned in their coursework to solve real organizational problems.

Admission Requirements

- Bachelor's degree
- Minimum undergraduate GPA of 2.75
- Information for three references
- Interview (upon request)
- Current resume or CV

Degree Requirements

30 total credit hours consisting of:

- 24 required credit hours (MGT 650 MGT 651 MGT 652 MGT 653 MGT 660 MGT 667 MGT 668 MGT 670)
- 3 elective credit hours in strategic HR (MGT 612 or MGT 661)
- 3 elective credit hours in HR analytics (MGT 663 or MGT 664)

- Other elective courses may also apply with DGS permission
- Academic performance consistent with Graduate School standards pertaining to individual courses and overall GPA

Further program details can be found at <https://gatton.uky.edu/programs/masters/master-science-strategic-human-resources-management-and-analytics>

Supply Chain Management, MS

The Master of Science with a major in Supply Chain Management program is offered by the Department of Marketing and Supply Chain, Gatton College of Business and Economics. The first and only program of its kind in Kentucky, the MSSCM degree prepares students for a professional career in the operations and supply chain management field. It is a one-year, 30-credit hour program that blends end-to-end supply chain concepts like strategic sourcing and channel management with big data analytics, cross-functional business knowledge, and hands-on, industry experience. It offers small class sizes and individual faculty attention.

Students learn to apply analytical, critical and logical reasoning skills to solve real-world supply chain challenges. They also learn to use business application software to assist decision making in a global supply chain setting. In addition, the program offer students opportunities to work with Gatton's industry partners and apply knowledge and skills in a capstone project. It is designed to prepare students for many professions in supply chain management, including general and operations manager, industrial production manager, purchasing manager, transportation, storage and distribution manager, logistician, business operations specialist, and operations research analyst.

Admission Requirements

- Bachelor's degree in any major from a 4-year college with a minimum undergraduate GPA of 2.75.
- Students are required to have completed and earned a C or above in at least one college level statistic course, such as STA 296 (Statistical Methods), STA 381 (Engineering Statistics) or ECO 391 (Economic and Business Statistics).
- International students need to submit TOEFL or IELTS scores. The minimum acceptable TOEFL score is 550 (paper-based), 213 (computer-based), or 79 (internet-based). The minimum IELTS score is 6.5.

Degree Requirements

Minimum 30 credits are required to graduate from the program. There are nine required core courses with 27-credits:

- MKT 630 SUPPLY CHAIN FUNDAMENTALS AND STRATEGY
- MKT 631 PRODUCTION AND OPERATIONS MANAGEMENT
- MKT 632 SUPPLY CHAIN MODELING & ANALYSIS
- MKT 633 APPLIED DATA ANALYTICS
- MKT 634 QUALITY MANAGEMENT & LEAN OPERATIONS
- MKT 635 LOGISTICS MANAGEMENT
- MKT 636 SOURCING, PURCHASING & CONTRACT MANAGEMENT

- MKT 637 NEGOTIATION IN THE SUPPLY CHAIN
- MKT 740 INDUSTRY PROJECT

Choose from the following list for one elective course (3-credits):

- MFS 613 SUSTAINABILITY, ETHICS, AND LEADERSHIP IN MANUFACTURING ORGANIZATIONS
- SCE 614 SUSTAINABLE PRODUCTION SYSTEMS AND SUPPLY CHAINS
- MFS 606 GLOBAL ISSUES IN MANUFACTURING
- MKT 530 SERVICES MARKETING MANAGEMENT
- MGT 610 GLOBAL MANAGEMENT
- MGT 697 LEADERSHIP, COMMUNICATIONS & ETHICS
- CPH 600 HEALTH SERVICES AND SYSTEMS ORGANIZATION
- PA 602 STRATEGIC PLANNING AND ORGANIZATIONAL CHANGE IN THE PUBLIC AND NON-PROFIT SECTORS
- HMT 588 STRATEGIC MANAGEMENT IN THE HOSPITALITY & FOOD SERVICE INDUSTRY

Program website: <https://gatton.uky.edu/programs/masters/master-science-supply-chain>

Teacher Preparation Program in Visual Impairments, MSEDU

The Department of Early Childhood, Special Education, & Counselor Education offers a Master of Science degree in the Teacher Preparation Program in Visual Impairments. The program uses a hybrid course delivery model including both face-to-face and online courses. Face-to-face courses occur on weekends and in the summer at either the Kentucky School for the Blind (KSB) in Louisville or at the University of Kentucky in Lexington.

A Teacher of the Visually Impaired (TVI) educates children in a variety of learning and instructional topics including: assessing and evaluating educational strengths and needs including functional vision and learning media assessments; determining appropriate services and instructional goals; and providing training in the use of adapted materials and devices. A TVI also provides direct instruction in the expanded core curriculum which includes compensatory academic skills, career exploration, sensory efficiency skills, social skills, assistive technology, recreation and leisure activities, self-determination skills, and independent living skills.

The University of Kentucky has the distinction of offering the only program to train teachers of the visually impaired in Kentucky.

This degree does not necessarily lead to teacher certification. Candidates should contact the program's Director of Graduate Studies (DGS) about additional teacher certification requirements. Information is also available on the program website at: <https://education.uky.edu/edsrc-programs/teacher-prep-visual-impairments/>

Admission Requirements

Applicants must have completed a bachelor's degree in any field with a minimum of 2.75 overall or 3.0 GPA in the last 30 credit hours to apply.

Applications must include the following:

- Resume/CV
- Personal Statement (1-2 pages on why you want to be a TVI)
- Official transcripts from all previous universities or colleges
- Three (3) completed reference forms or letters

Degree Requirements

33 credit hours with an overall GPA of 3.0

- BVI 580 INTRODUCTION TO VISUAL IMPAIRMENTS (3)
- BVI 582 ANATOMY AND PHYSIOLOGY OF THE EYE (3)
- BVI 583 BRAILLE CODES I (3)
- BVI 611 TEACHING METHODS FOR STUDENTS WITH VISUAL IMPAIRMENTS (3)
- BVI 614 BRAILLE CODES II (3)
- BVI 615 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH VISUAL IMPAIRMENTS (3)
- BVI 616 EXPANDED CORE CURRICULUM FOR BLIND AND VISUALLY IMPAIRED (3)
- BVI 617 VISUAL IMPAIRMENTS AND MULTIPLE DISABILITIES (3)
- BVI 618 ASSESSMENT OF STUDENTS WITH VISUAL IMPAIRMENTS (3)
- BVI 710 STUDENT TEACHING/FIELD EXPERIENCE IN VISUAL IMPAIRMENTS (6)

Successful completion of field experience(s)

- Refer to program website for specific requirements

Satisfactory demonstration of all program standards

Program website: <https://education.uky.edu/edsrc-programs/teacher-prep-visual-impairments/>

Teaching English as a Second Language, MA

The Department of Modern and Classical Languages, Literatures and Cultures offers a graduate program leading to the M.A. degree in Teaching English as a Second Language - MATESL (36 cr.). The general goal of graduate work in the program is to provide students with a quality teacher education program that will prepare candidates for a satisfying career in language teaching.

Admission Requirements

- Transcript showing a Bachelor's degree with a minimum GPA of 2.75. If applicant has taken graduate courses, a minimum GPA of 3.0 is required.
- Three Letters of Recommendation
- Essay
- TOEFL score: 89 ibt

Degree Requirements

The MA degree requires a total of 36 graduate credit hours, distributed across the required courses below. This course work includes two teaching practica, a supervised internship and the TESL Professional Portfolio.

- TSL 560 LITERACY DEVELOPMENT IN THE ESL CLASSROOM (3 cr.)
- MCL 510 TEACHING METHODS: YOUNG LEARNERS & BEGINNING LEVEL STUDENTS (3cr.)
- TSL 515 ENGLISH LANGUAGE DEVELOPMENT IN THE CONTENT CLASSROOM (3 cr.) Or MCL 665 SECOND LANGUAGE CURRICULUM & ASSESSMENT (3 cr.)
- MCL 517 SECOND LANGUAGE ACQUISITION / LIN 517 SPECIAL TOPICS IN LINGUISTICS (SUBTITLE REQUIRED) (3cr.)
- MCL 575 INTRODUCTION TO LINGUISTICS AND LANGUAGE STRUCTURE (3cr.)
- MCL 610 WORLD LANGUAGE METHODS 9-12 (3 cr.)
- TSL 675 ENGLISH GRAMMAR: ANALYSIS & PEDAGOGY (3 cr.)
- MCL 690 CULTURE, COGNITION, & SECOND LANGUAGE (3 cr.)
- TSL 697 ESL INTERNSHIP (9 cr.)
- One Elective: 500/600 level course from Education, Linguistics or related field (3 cr.)

TESL Website: <https://mcl.as.uky.edu/tesl>

Teaching World Languages, MA

The goal of the Master of Arts in Teaching World Languages (MATWL) program is to prepare the highest quality language educators for the state of Kentucky and beyond. The MATWL program is designed to prepare candidates who will possess a high level of content knowledge, excel in pedagogy, and perform as competent professional language educators.

Typical applicants include anyone with a BA from a US institution or the equivalent, teachers who are employed with an emergency certification and second-career professionals as well as teachers seeking professional development.

The MATWL program offers a number of advantages for applicants in that it can be completed in one year or can be extended to multiple years for those who are unable to take the required courses as full-time students. Students complete their coursework with a field internship in a public school where they teach with a cooperating teacher.

The program is offered in the Department of Modern and Classical Languages, Literatures, and Cultures in cooperation with the Department of Hispanic Studies and the College of Education. MATWL graduates can specialize in Arabic, Chinese, French, German, Latin, Japanese, Russian, or Spanish.

Admission Requirements

Applicants for admission must be concurrently approved by the Graduate School and the Teacher Education Program (TEP). Applicants are reviewed by the Director the MATWL Program in consultation with the MATWL Program Faculty Committee.

Candidates seeking admission to the MATWL program must meet the following requirements.

- Language proficiency. Students must demonstrate proficiency in the target language with a rating of at least Advanced Low on the ACTFL Oral Proficiency Interview (Intermediate High for Russian, Chinese, & Arabic). Oral Proficiency Interviews can be taken through ACTFL or by contacting the director to schedule one for a particular language). Candidates must also document a course of study that reflects mastery of language structure, a broad range of modern and classical literature, and the history of the relevant culture(s). Candidates in Latin must document a course of study that reflects mastery of language structure, knowledge of the literature, history, mythology, and culture of ancient Rome and Greece, and proficiency in oral reading.
- Undergraduate BA in the Language of study. Documentation of such a course of study typically consists of an undergraduate major in a world language or equivalent. Although each language area has its unique requirements, candidates typically have 48 to 66 credit hours in their academic teaching specialties.
- A minimum 2.75 overall undergraduate GPA, a minimum 3.0 GPA in the language-specific field, and a minimum 3.0 GPA in any previous graduate work
- A passing GRE Score. Quantitative: 143; Verbal 150; Analytical Writing: 4.0
- 200 hours of experience with children 6 to 13 years of age and 14- to 18-year old adolescents as well as community and cross-cultural experience.

Degree Requirements

Total credit hours: 36 credit hours

Core requirements. Students take the following courses.

- MCL 510 TEACHING METHODS: YOUNG LEARNERS & BEGINNING LEVEL STUDENTS (3 credits)
- MCL 610 WORLD LANGUAGE METHODS 9-12 (3 credits)
- EDC 610 DISCIPLINE AND CLASSROOM MANAGEMENT (3 credits)
- EDS 600 SURVEY OF SPECIAL EDUCATION (3 credits)

- MCL 690 CULTURE, COGNITION, & SECOND LANGUAGE or an EDP course at the 500- or 600-level (3 credits)
- MCL 601 WORLD LANGUAGE TEACHING INTERNSHIP P-12 (12 credits)
- Students also take 3 courses (9 credits) of their specialty language at the graduate level. These are generally taken in the Fall of their first semester.
- Students complete their student teaching (MCL 601 Teaching Internship) in two placements-one at the elementary level, and one at the 6-12 level-at local schools in the Spring semester.

<https://mcl.as.uky.edu/matwl>

Toxicology, MS

The Department of Toxicology and Cancer Biology is a multidisciplinary unit for research, graduate education, and professional training in the broad areas of Toxicology and Cancer Biology. The program was founded in 1969 in the Graduate School, as one of nation's first Ph.D. programs in Toxicology and moved to College of Medicine (COM) in 2004. Our education mission is to provide students with an education in Toxicology and Cancer Biology that is based on an understanding of biochemistry, physiology, molecular/cell biology, genetics and metabolism, coupled with in-depth research experience on the mechanisms by which specific agents induce toxicity, and/or the basic cellular processes upon which environmental agents impact to cause disease. In addition, the department provides the only Master of Forensic Toxicology and Analytical Genetics (or degree of comparable nature) in the state and it is only the fifth such professional master's degree in the field of forensics in the nation.

The department is housed in the Health Sciences Research Building in the Medical Center within easy walking distance of all major research units and colleges. Excellent research support facilities are available, including transgenic mouse, macromolecular structure, mass spectrometry, nuclear magnetic resonance, proteomics, genomics, and metabolomics.

Our department consists of tenured/tenure track Core Faculty with a primary appointment in Toxicology and Cancer Biology, and is enhanced by faculty who have Joint Appointments in the department, but whose primary appointments are in Departments and Colleges across the University. The Department of Toxicology and Cancer Biology has graduated more than 150 PhDs in Toxicology who have gone on to careers in academia, government, such as the Environmental Protection Agency (EPA) and the Food and Drug Administration (FDA), and in the pharmaceutical and chemical industry. The department maintains a robust extramurally supported training environment, including an NIEHS T32 training grant for doctoral students in toxicology, which has been continuously funded since 1990 and has been renewed for funding until 2021.

For more information please visit <https://toxicology.med.uky.edu/tox-graduate-research-masters-degree>

Admission Requirements

Applicants must meet the following requirements for admission to the University of Kentucky Graduate School and the Toxicology and Cancer Biology program.

- An appropriate degree (e.g., Chemistry, Biological Sciences) from an accredited college or university.
- A minimum grade point average of 3.0 on a 4.0 scale.
- A Graduate Record Examination (GRE) score is not required.
- For international applicants, the minimum acceptable TOFEL score is 550 (paper-based), 213 (computer-based), or 79 (internet-based). The minimum IELTS score is 6.5.

More information on how to apply can be found here <https://toxicology.med.uky.edu/graduate-program>

Degree Requirements

Complete 20 hours of Core Courses:

- IBS 601 BIOMOLECULES AND METABOLISM (3)
- IBS 602 MOLECULAR BIOLOGY AND GENETICS (3)
- IBS 603 CELL BIOLOGY AND SIGNALING (3)
- TOX 509 ENVIRONMENTAL AND REGULATORY TOXICOLOGY (2)
- TOX 600 ETHICS IN SCIENTIFIC RESEARCH (1)
- TOX 680 MOLECULAR TOXICOLOGY AND CARCINOGENESIS (3)
- IBS 611 PRACTICAL STATISTICS (1)
- TOX 770 TOXICOLOGY AND CANCER BIOLOGY SEMINAR (4 semesters X 1 credit) (4)

Plan A (Thesis) Minimum Hours Requirement: Complete a minimum of 30 hours of graduate courses to include, if desired, no more than 6 credit hours of TOX 768 and submission of a Thesis.

Plan B (non-thesis) Minimum Hours Requirement: Earn a minimum of 30 hours of graduate courses.

Urban and Environmental Design, MS

The Master of Science in Urban & Environmental Design (MUED) at the UK College of Design is dedicated to helping students think critically about emerging urban and environmental design problems through real-world projects and future-oriented ideas. The one-year program introduces students to the complexity of urban and rural environments - from the varying spectrum of stakeholders to the bounds of existing infrastructures - and promotes an interdisciplinary approach to designing sustainable communities.

The curriculum is studio-based to develop an ethic of collaboration and critical thinking among students, faculty and community members. From these relationships, projects emerge that seek inventive ideas to specific design challenges. Students take a diversified sequence of courses that includes history and theory of urban and environmental design, visualization techniques, policy analysis, and socioeconomic research.

The MUED offers flexible degree options for a variety of student backgrounds and design experience levels. Students with no formal design background are encouraged to apply.

Admission Requirements

- Portfolio: The Master of Science in Urban and Environmental Design (MUED) offers flexible degree options for a variety of student backgrounds and design experience levels. Students with no formal design background are encouraged to apply.
 - OPTION 1 is for students with both a prior design degree. This option can be completed in one year (Fall, Spring, and Summer). A portfolio is required to apply.
 - OPTION 2 is for students with no formal design background and requires a foundational studio sequence as a prerequisite for admission to the MUED program. This option can be completed in two years and does not require a portfolio for admission.
- GRE
- Three letters of recommendation
- Application Deadlines:
 - Summer: March 1
 - Fall: March 1

Degree Requirements

MUED Curriculum (Prior Design Degree)

Semester 1 Fall

- UED 601 URBAN AND ENVIRONMENTAL DESIGN STUDIO I 5 hours
- UED 611 VISUALIZATION AND REPRESENTATION 2 hours
- Elective 3 hours

Semester 2 Spring

- UED 602 URBAN AND ENVIRONMENTAL DESIGN STUDIO II 5 hours
- UED 651 HISTORY AND THEORY OF URBAN AND ENVIRONMENTAL DESIGN 3 hours
- HP 602 HISTORIC PRESERVATION LAW 3 hours
- Elective 3 hours

Semester 3 Summer

- UED 612 RESEARCH DESIGN AND METHODS IN URBAN AND ENVIRONMENTAL DESIGN 1 hour

- UED 701 URBAN AND ENVIRONMENTAL DESIGN PROJECT 5 hours (students should enroll in this course if they are completing a design capstone project)
- UED 711 URBAN AND ENVIRONMENTAL DESIGN THESIS 5 hours (students should enroll in this course if they are completing a design thesis)

Total: 30 hours

MUED Curriculum (Non-Design Background)

Semester 1 Fall

- UED 511 URBAN AND ENVIRONMENTAL DESIGN STUDIO PRIMER 5 hours
- UED 611 VISUALIZATION AND REPRESENTATION 2 hours
- UED 501 INTRODUCTION TO URBAN AND ENVIRONMENTAL DESIGN 3 hours

Semester 2 Spring

- UED 601 URBAN AND ENVIRONMENTAL DESIGN STUDIO I 5 hours
- HP 602 HISTORIC PRESERVATION LAW 3 hours

Semester 3 Fall

- UED 602 URBAN AND ENVIRONMENTAL DESIGN STUDIO II 5 hours
- UED 651 HISTORY AND THEORY OF URBAN AND ENVIRONMENTAL DESIGN 3 hours
- Elective 3 hours

Semester 4 Spring

- UED 612 RESEARCH DESIGN AND METHODS IN URBAN AND ENVIRONMENTAL DESIGN 1 hour
- Elective 3 hours
- UED 701 URBAN AND ENVIRONMENTAL DESIGN PROJECT 5 hours (students should enroll in this course if they are completing a design capstone project)
- UED 711 URBAN AND ENVIRONMENTAL DESIGN THESIS 5 hours (students should enroll in this course if they are completing a design thesis)

Total: 38 hours

Veterinary Science, MS

The overall mission of the Veterinary Science graduate program is to train students to become creative and critical thinking scientists with the contemporary skills and knowledge to perform independent research and to effectively communicate their results. The primary goal of research in the Veterinary Science program is

to improve our understanding of the biology of Equidae, with emphasis placed on investigating the causes and mechanisms that affect the production and performance of horses, regardless of breed.

Veterinary Science offers both the Master of Science (MS) and the Doctor of Philosophy (PhD) degrees, with specialization in infectious disease, parasitology, immunology, genetics, reproductive physiology, pharmacology, and musculoskeletal sciences. Each of these subspecialties has a general emphasis on the horse.

Admission Requirements

Applicants need a strong academic background with undergraduate course preparation in biology, chemistry and mathematics. Students accepted into the program should have an appropriate degree (i.e., in a STEM discipline) from an accredited institution, a minimum grade point average (GPA) of 3.0 on a 4.0 scale and a combined score (verbal plus quantitative) on the Graduate Record Examination (GRE) of not less than 300. Applicants with lesser qualifications will be accepted only on the recommendation of a graduate faculty member who is willing to support financially and serve as the research advisor for the student and with the approval of our full graduate faculty.

Degree Requirements

Students enrolled in the MS program must meet the Graduate School Requirements of at least 30 credit hours of coursework, to include 6 credit hours of VS 768 (Residence Credit for the Master's Degree).

Students pursuing both the MS and PhD in Veterinary Science must take two semesters of graduate-level biochemistry/molecular/cell biology (selected from CHE 550 & CHE 552 OR IBS 601 IBS 602 IBS 603 IBS 606) and one semester of graduate-level statistics (STA 570 or STA 580) or demonstrate equivalent coursework completed elsewhere. Students in the MS program must enroll in VS 770 VETERINARY SCIENCE SEMINAR, and give a presentation in at least one semester. Students in the PhD program must enroll in VS 770 and give presentations in at least 2 semesters. As well, VS 600 ETHICS IN SCIENTIFIC RESEARCH, is strongly recommended.

Any additional coursework is determined by each student in concert with their major advisor.

<http://vetsci.ca.uky.edu/content/graduate-education>

Doctoral

Agricultural Economics, PhD

The Department of Agricultural Economics provides programs leading to the degrees of Master of Science and the Doctor of Philosophy. Graduate Faculty in the department provide areas of emphasis in agricultural policy, price analysis, agricultural marketing, agribusiness, farm management, domestic economic development, and production economics. Students must complete a core of courses in agricultural economics, economics and statistics.

Students holding degrees in agricultural economics are employed by academic institutions, local, state, and federal agencies that deal with agriculture, natural resources and economic development; private firms in the agricultural and business sectors; and agencies and governments of foreign countries. These agricultural economists conduct research, develop extension services, teach classes, and serve as managers and administrators in various types of firms and agencies.

Admission Requirements

Students entering the Ph.D. program are expected to have the following courses: at least a two-course calculus sequence, M.S. level microeconomic theory, and statistics theory. Some of these courses may be taken during the student's first semester. A Master's degree in a relevant discipline is generally required for entry into the Ph.D. program. In exceptional cases a student may be admitted directly to the Ph.D. program with only a Bachelor's degree. There are no minimum GPA or GRE requirements beyond those of the Graduate School, but such information, along with letters of recommendation, is used qualitatively in the admission decision.

Degree Requirements

In addition to the course work requirements, students in the Ph.D. program are required to take a comprehensive examination in microeconomics administered by the Department of Economics. Students also must complete a second-year research paper requirement as part of the preliminary examination requirements. The student must defend a dissertation prospectus during the preliminary oral examination. The ability to conduct original research in agricultural economics, documented through the completion of a dissertation, is required.

Graduate students have considerable flexibility to structure their program with respect to course work and research topics consistent with individual interests. Each student has a major professor and an advisory committee to assist in course work selection and in the thesis and dissertation research.

A graduate handbook is available that provides information regarding program content, degree options and available financial assistance.

Animal and Food Sciences, PhD

The Doctor of Philosophy degree is available in Animal and Food Sciences. Degree programs in Animal & Food Sciences provide advanced study and are divided into the disciplinary areas of animal nutrition, animal reproduction, reproductive physiology, or food science. Special interests in beef or dairy cattle, horses, poultry, sheep and swine may be pursued within many of these areas. Programs in food science offer specialization in dairy technology, food chemistry, food microbiology, food safety, meat biochemistry, and meat processing.

The Ph.D. in Animal & Food Science (PhDASC) degree requires an M.S. plus 18 additional credit hours.

Admission Requirements

- Applicants to the Ph.D. program must be in the process of completing, or have already completed, an M.S. degree or equivalent. They must have completed a four-year degree at an accredited institution of higher education, must have achieved at least a 3.00 GPA for all undergraduate courses, and must submit scores from the verbal, quantitative, and analytical portions of the Graduate Record Exam (GRE). Applicants must have completed; 1 semester calculus or physics, 3 semesters biology/ physiology, 3 semesters chemistry (including 1 semester of organic chemistry or biochemistry). Additional courses in physiology, cell biology, microbiology, and anatomy are encouraged.

Degree Requirements

- ASC 771 ANIMAL SCIENCE SEMINAR Section 1
- ASC 771 ANIMAL SCIENCE SEMINAR Section 2

<http://afs.ca.uky.edu/students/graduate>

Anthropology, PhD

Degree Requirements

The PhD program in Anthropology consists of a minimum of 36 credit hours, plus a minimum of two semesters of ANT 767 . Students must fulfill any and all other requirements of the Graduate School. An entering PhD student should complete required coursework by the end of the second year, and successfully defend a dissertation proposal and successfully complete the qualifying exams as early as the fifth semester, but no later than the tenth semester, after admission to the program. Upon acceptance into the graduate program, a student will be assigned a graduate advisor who will review and approve all first-year coursework, and in consultation with the DGS, evaluate requests for transfer of up to 9 credit hours of equivalent graduate-level coursework. Following the first year, all coursework will be approved by the student's committee.

Requirements in the Ph.D. program consist of: (1) three required courses - History of Theory (ANT 610) and a theory and a methods course in the student's designated sub-discipline, to be taken in the first year when available; (2) a course in Research Design (ANT 662), (3) an approved statistics course; (4) 7 courses (21 hours) of additional coursework, of which at least 1 course must be in an anthropological sub-discipline (archaeology, biological, cultural) other than the student's designated sub-discipline. Demonstrated competence by the student in reading or speaking one or more languages may be required by the student's committee. Students must complete and successfully defend to their committee a dissertation research proposal prior to the scheduling of the qualifying exams.

The MA/PhD Program

With the approval of the Graduate Committee and the Director of Graduate Studies, students without a Master's Degree may be admitted directly into the PhD program, and receive the MA following successful completion of the PhD qualifying exams. Students must take: (1) ANT 601 , ANT 610 and ANT 660 or ANT 610 , ANT 650 and ANT 651 ; (2) a statistics course at the 500+ level; and (3) a minimum of 15 additional

credit hours of coursework in anthropology or cognate disciplines as approved by the student's committee. Anthropology faculty members have research experience in the following areas: South and Southeast Asia, North and Sub-Saharan Africa, Middle East and North Africa, Europe, the former Soviet Union, Latin America, and North America, including the urban and rural U.S. and with specialization in studies of Appalachia. Members of the department participate in interdisciplinary research in the University's College of Agriculture, College of Medicine, College of Education, and School of Public Health. The Department of Behavioral Science includes anthropologists on its faculty, and students with interests in medical anthropology are encouraged to take behavioral science courses

Arts Administration, PhD

The field of arts administration is largely considered to have been formally developed in the United States in the 1960s. The institutionalization of the field has continued to solidify and expand well into the 21st century.

What was once considered a niche industry, the arts and cultural sector, is one of the largest exports of products of the US (and one of the only with a trade surplus), supports over 4.9 million jobs, and contributes \$730 billion to the nation's gross domestic product (GDP). By contributing 4.2% to the US GDP, arts and cultural production is a larger economic sector than agriculture, travel and tourism, transportation and warehousing, and construction.

As the field has expanded so has the necessity for appropriately trained researchers. The PhD in Arts Administration at the University of Kentucky allows committed and engaged arts scholars the opportunity to study in a rigorous, online degree program focused on field competencies and research methodologies regardless of residential location.

Admission Requirements

The program is designed to provide research specialization in arts and culture beyond the master's level. All students are expected to have at least minimal training in the common body of knowledge in the functional areas of arts administration.

In order to apply to the PhD in Arts Administration, students must have an earned graduate degree in arts administration or a related discipline. Field practitioners in the arts and cultural sectors with graduate degrees in related disciplines may be considered for admission; however, would likely be assigned foundational coursework which would not apply to the required 46-credit hours for the PhD.

Students will only be admitted in the fall semester.

Students interested in the PhD in Arts Administration will be required to submit an application for the degree utilizing the system as designated by the UK Graduate School. Students will be required to submit the following items:

1. **Current Resume or CV.** The resume/CV should include the applicant's contact information; work experience including relevant arts and culture-based work and/or volunteer experience; education; research and teaching experience, if applicable; publications, papers, and research presentations, if applicable; and any special skills or qualifications relevant to a pursuit of a doctoral degree.
2. **Statement of Purpose.** The statement of purpose should include the rationale and purpose of the applicant's desire to pursue a PhD in Arts Administration at UK as well as preliminary research interests, and career goals after achieving the PhD. What is it about arts administration that makes you desire to spend the next four years of your life studying it,

researching it, and writing about it in a dissertation? Your statement of purpose must be a serious explanation of your interests.

3. **Portfolio of Writing Samples.** The written portfolio must consist of one or more academic writing samples. It could, if relevant, include professional writing samples. The written portfolio should be at least 20 pages in length with a minimum of one research writing sample being 12-15 pages. Applicants should submit no more than 50 pages for review. Before selecting your writing portfolio pieces, we recommend you read, Graduate School Writing Samples by Bernard Nickel. Remember, a doctoral student's primary activities are reading and writing. The committee needs to see the strongest writing sample(s) possible. Often this means that you will need to write a new sample or expand on a piece of writing you have previously completed. Acceptable examples include but are not limited to:
 1. A previously published article or conference paper with references.
 2. A recent graduate level essay on a related arts and culture topic with references.
 3. A newly drafted paper that addresses a key issue or question within the arts and cultural field.
4. **Transcripts.** Applicants may submit unofficial transcripts for all university and college degrees earned. Upon acceptance, official transcripts are required.
5. **GRE scores.** GRE scores are required as a university policy. The GRE cannot be waived. There is no minimum score; GRE scores are considered in combination with other application materials.
6. **Three letters of recommendation.** A combination of professional and academic references is preferred. Letters should be able to speak to a candidate's ability to successfully complete graduate level coursework, research aptitude, and advanced writing skills.

The Arts Administration Graduate Admissions Faculty will review the PhD applications in order to select the finalists. Finalists will be interviewed via video conference in order to determine the student's:

- Rationale for pursuing a PhD;
- Proclivity to online education and aptitude for rigorous research expectations;
- Area of research interest; and
- Systems in place to support the student through doctoral studies.

Accepted Applicants to the PhD in Arts Administration will be provided instructions on how to apply for the Graduate Certificate in Research Methods in Education. There is no need to apply for the certificate prior to acceptance.

Degree Requirements

The minimum coursework required is 46 hours. Up to 9-credit hours may be transferred into the program for students who have taken courses above the requirements of a master's degree with the advice of the student's advisory committee, Director of Graduate Studies, and Graduate School approval.

ARTS ADMINISTRATION CORE (15 hours)

AAD 655 CULTURAL POLICY (3 credit hours)

AAD 665 CREATIVE CITIES, CREATIVE PLACEMAKING, & COMMUNITY VIBRANCY (3 credit hours)

AAD 629 ORGANIZATION THEORIES IN ARTS ADMINISTRATION (3 credit hours)

AAD 720 SUSTAINING LEADERSHIP IN THE ARTS (3 credit hours)

AAD 790 ARTS AND CULTURE RESEARCH STUDIES (3 credit hours)

RESEARCH METHODS CORE (15 hours)

EPE 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA / EDP 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA (3 credit hours)

EPE 619 SURVEY RESEARCH METHODS IN EDUCATION (SUBTITLE REQUIRED) (3 credit hours)

EPE 620 TOPICS AND METHODS OF EVALUATION / EDP 620 TOPICS AND METHODS OF EVALUATION (3 credit hours)

EPE 663 FIELD STUDIES IN EDUCATIONAL INSTITUTIONS (3 credit hours)

AAD 795 ARTS ADMINISTRATION RESEARCH PLANNING & PROPOSAL WRITING (3 credit hours)

ARTS ADMINISTRATION RESEARCH AREA (9 hours)

Students will select 9 credit hours of coursework within the Department of Arts Administration at the 500-, 600-, or 700-level.

Students wishing to take coursework outside of the Department of Arts Administration should receive approval from the DGS prior to enrollment.

ELECTIVE (3 hours)

Students may select 3 credit hours of elective course work within or outside the Department of Arts Administration. Students should consult with their advisor to select elective course(s).

DISSERTATION CREDIT (minimum of 4 credit hours)

AAD 767 ARTS ADMINISTRATION DISSERTATION RESIDENCY CREDIT*

Students must register for this course in the semester of their qualifying examination. A minimum of two semesters are required as well as continuous enrollment (in fall and spring semesters) until the dissertation is complete. These hours constitute full-time enrollment. (4 (+) (Minimum number of AAD 767 credit hours required. Students must continually enroll until degree is complete.))

TOTAL CREDIT HOURS (46+ hours)

Earned master's degree in Arts Administration plus 46+ Minimum number of credit hours required. Students who do not complete their dissertation within two semesters must continually enroll in AAD 767 until the degree is complete.

*Students need not be physically on campus while enrolled in course work or dissertation residency hours. The term "residency" refers to continual enrollment.

Degree Requirements

PhD in Arts Administration students must complete all of the following requirements:

- Complete all assigned foundational coursework (if applicable);
- Complete all PhD coursework (minimum of 46 hours) while maintaining a minimum GPA of 3.0 out of 4.0 on all graduate work attempted at UK,
- Pass the written and oral dissertation proposal in the fourth semester of coursework,
- Write three chapters of a dissertation based on the approved proposal;
- Complete a written dissertation based on the approved proposal and comprehensive exam; and
- Successfully defend the dissertation in an oral presentation.

Students completing these requirements will earn a **PhD in Arts Administration** and a **Certificate in Research Methods in Education**.

Please visit the program website for more information (<https://finearts.uky.edu/arts-administration/phd>).

Biochemistry, PhD

Graduate study in the College of Medicine's Department of Molecular & Cellular Biochemistry is designed to prepare candidates for research careers in academics, industry, and government laboratories. Students will have the opportunity to participate in faculty research programs studying a spectrum of topics including: signal transduction, protein structure and function, transcriptional regulation, the cytoskeleton, secretion and vesicular fusion, disease mechanisms (atherosclerosis, cancer, infectious disease, diabetes, Alzheimer's), drug design, nucleic acid dynamics, and membrane biogenesis & function. Students are expected to obtain a well-rounded knowledge of modern biochemistry, participate in graduate seminars, journal clubs, and research seminars; to interact with visiting scholars; and to present the results of their research at local and national meetings. Financial aid is available to all students in the program.

Admission Requirements

Admission to the Ph.D. program in Biochemistry is through the Integrated Biomedical Sciences (IBS) Curriculum (see <https://graduate.med.uky.edu/integrated-biomedical-sciences>).

Information regarding the Ph.D. program in Biochemistry may be obtained at <http://biochemistry.med.uky.edu/>.

Degree Requirements

Requirements to be added.

Biology, PhD

The Biology Graduate Program offers Doctor of Philosophy and Masters of Science degrees (thesis and non-thesis) in Biology, but doctoral training is strongly emphasized. Master's training is not a prerequisite for admission into our doctoral program. Applicants are selected for admission based on their overall academic record, GRE scores, letters or recommendation, prior research experience, and on their expressed interest in our graduate program training areas or the research of the Biology Department faculty members.

Training

Graduate students are trained through a combination of formal coursework and research experience. Research training consists of work on a research project under the guidance of one or more of our faculty members. The specific research project is chosen in consultation with the faculty mentor and typically is closely related to the research interests of that lab. A one-credit Biology Graduate Student Orientation seminar course is required for all first-year graduate students admitted into the Biology program. All students must complete a set of common requirements for the Biology Graduate Program, including seminar courses, research, a qualifying exam (for Ph.D. candidates), and an exit exam (thesis defense for Ph.D. and Plan A M.S.). Additional coursework depends on the area of specialization and is determined with input from the faculty mentor and student's advisory committee and the training program. The training programs include Environmental and Evolutionary Biology (EEB), Molecular, Cellular and Developmental Biology (MCDB), and Tailored Training (TT).

Environmental and Evolutionary Biology Training Program

The Environmental and Evolutionary Biology group supports education and research on the interactions between organisms and their environment from an evolutionary perspective. This includes the study of micro- and macro-evolutionary processes; the physiological, developmental, and behavioral adaptations of individual organisms; predator-prey, mutualistic, and competitive interactions; and community and ecosystem relationships. Faculty members conduct research exploring both basic underlying principles and specific applied consequences of ecological interactions. The group's core philosophy is that major advances in understanding how organisms evolve and function in changing ecological systems are achieved in an interactive, interdisciplinary research environment involving diverse conceptual and methodological approaches. Students achieve this through coursework, topical seminars, weekly research seminars, and research projects guided by their major advisor and thesis committee.

Molecular, Cellular and Developmental Biology Training Program

Molecular, Cellular and Developmental Biology (MCDB) training focuses on fundamental cellular and developmental processes such as gene expression, cell proliferation, cell signaling, development, neural function, aging, and behavior. We apply biochemical, genetic, physiological, and molecular techniques to resolve outstanding issues in biology and use a diverse set of experimental organisms (e.g., fungi, cultured cells, and complex animals ranging from the fruit fly to mouse). Entering MCDB students rotate through two different laboratories before selecting a research mentor near the end of the first year of study. Students participate in weekly research and literature seminars and are guided in the selection of other formal course work in order to best prepare for their thesis/dissertation studies. The faculty and students in the MCDB group interact closely with each other, with colleagues elsewhere on our campus, and with scientists worldwide to achieve a stimulating research atmosphere. Our program successfully prepares students for scientific research careers in academic, industrial and governmental settings.

Tailored Training

The Tailored Training program provides great curricular flexibility. The principal difference between Tailored Training and training in the MCDB and EEB programs is that there are no set course requirements, other than the minimum requirements set by the Biology Graduate Program. The mentor and advisory committee work together with the student to customize a curriculum that best suits the needs, interests, and goals of the student. This may be particularly advantageous for students whose primary interests encompass areas outside of or across the other training programs. The curriculum is unique to each student, but not isolating. The student is encouraged to participate in relevant seminars, journal clubs, or other activities attended by students in the MCDB and EEB training programs or in other University graduate training programs. Students admitted through the Tailored Training option enter the Biology Graduate Program directly into the lab of their research mentor. Applicants interested in admission through this mechanism should contact the faculty member with whom they wish to train and also indicate their lab of choice in the Biology application. Faculty members offering Tailored Training will indicate this option on their web pages.

Financial Support

Full financial support is offered to all Ph.D. and Plan A M.S. students accepted for graduate admission; no financial aid application is required. Support may include teaching assistantships and fellowships provided by the university and department, research assistantships offered by faculty mentors, interdisciplinary traineeships and fellowships or extramural research fellowships to individual students.

Admission Requirements

Anyone with a bachelor's degree from an accredited college or university may apply for admission to the Biology Graduate Program at either the MS or Ph.D. levels. Applicants are generally expected to have an undergraduate grade point average of at least 3.0 (out of 4.0), a combined verbal and quantitative Graduate Record Examination score of at least 1100 (old scoring system) or 300 (new scoring system) and, for nonnative English speakers, a TOEFL score of at least 550 on paper-based test or 213 on the computer-based test (CBT) or 79 on internet-based test (IBT). Our GRE institution code is 1837 and Department Code is 0206. We encourage completed applications by January 1 although applications will continue to be reviewed until all positions are filled.

Prerequisite college-level coursework includes one year of physics, two years of chemistry, one semester of calculus, one year of general biology, and upper-level courses providing a working knowledge of contemporary biology. Every student entering the Biology Graduate Program is presented with the Graduate School Bulletin at orientation to familiarize the students with UK Graduate School policy. In addition, each student is provided with a copy of the Rules, Regulations & Policies for the Biology Graduate Program which describes the Departmental rules governing the Biology Graduate Program.

The Biology Graduate Program application is available online. This application and additional information about the Biology Graduate Program can be found at the Program website: <https://bio.as.uky.edu/grad-program>.

Degree Requirements

Requirements to be added.

Biomedical Engineering, PhD

The Doctor of Philosophy (PhD) offered by the F. Joseph Halcomb III, MD, Department of Biomedical Engineering at the University of Kentucky is a research degree granted on the basis of broad knowledge of engineering applications in biology and medicine and an in-depth study in a specific area leading to a dissertation reflecting original and independent work by the candidate. Students receive educational and research opportunities through the facilities and faculty of the department and its ideal geographic proximity and close ties to other units across the University, ranging from engineering to basic science to clinical departments.

Admission Requirements

Applicants to the PhD program must meet the requirements of the Graduate School and are generally expected to have an master's degree from an ABET-accredited engineering program or its equivalent. Under special circumstances, exceptional students may bypass the master's and be admitted directly to the PhD program upon approval by the biomedical engineering faculty. Applicants with degrees in non-engineering disciplines are considered on a case-by-case basis. Admission to the program normally requires a GPA of at least 3.0 on a 4.0 scale on all graduate and undergraduate work, valid scores on the Graduate Record Examination (GRE), a statement of the applicant's reasons for wanting to pursue a PhD in Biomedical Engineering, and letters of recommendation from three faculty members familiar with the applicant's record. Satisfying the above requirements does not guarantee admission to the program; at the same time, admission decisions are based on a holistic review of the application without regard to minimum grade or score requirements alone. Applications are reviewed by a committee of BME Faculty on a rolling basis.

Degree Requirements

- Meet the requirements of the Graduate School.
- Successfully complete 36 credits of coursework including PGY 502 (Physiology) and BME 609 (BME Ethics). Courses for advanced study are determined in consultation with an advisory committee and are selected from engineering, physical sciences, mathematics, life sciences, and medicine. 18 credits of coursework can be waived upon request with the approval of the Graduate School if the student possesses a valid Master's degree.
- Pass the Qualifying Examination. This exam, consisting of written and oral components, is designed and administered by the student's Doctoral Advisory Committee.
- Present and satisfactorily defend a dissertation documenting independent and comprehensive scholarship.

For further information, contact the DGS at bmedgs@uky.edu or visit <https://www.engr.uky.edu/research-faculty/departments/biomedical-engineering>

Biosystems and Agricultural Engineering, PhD

The objectives of the Biosystems and Agricultural Engineering graduate program are to develop and strengthen:

1. the ability to plan and conduct research and design involving the application of engineering science to biological and agricultural systems.

2. an understanding of mathematical, physical, and biological sciences that enables critical assessment of scientific literature in these and related fields.
3. the skills required to use precision instruments, techniques and computers in research and design.
4. the ability to make sound engineering and management decisions.
5. the ability to teach college level courses in Biosystems and Agricultural Engineering, particularly at the doctoral level.

Admission Requirements

Admission into the Ph.D. graduate program of the Biosystems and Agricultural Engineering Department requires the concurrence of the Department Graduate Committee, the Director of Graduate Studies, and the Department Chair, and the availability of an advisor for the student. The Biosystems and Agricultural Engineering Graduate Committee reviews the applicant's previous graduate record, three letters of recommendation, resume, statement of professional objective, and transcripts with special emphasis given to the science and mathematics area. The department requires a minimum grade point average of 3.2 on all previous graduate work for unconditional admission. Exceptions to these requirements are considered on a case-by-case basis, taking into account the materials described above as well as GRE scores. Ph.D. students are admitted into candidacy after they have successfully completed the Qualifying Exam.

Degree Requirements

Graduate students will combine courses in Biosystems and Agricultural Engineering, other engineering fields, the physical sciences, and the biological sciences to develop a program of study that facilitates these objectives. The advanced degrees, however, are primarily research degrees awarded for significant creative research accomplishment, not for the completion of a specified number of courses. Therefore, the program normally concentrates on a strong dissertation problem completed under the supervision of the graduate faculty of the department. A design-oriented, non-thesis option is also available for the master's degree.

Business Administration, PhD

The mission of the doctoral program is to prepare students for successful academic careers at institutions of higher learning within the USA and internationally. To accomplish this mission, the program prepares graduates to comprehend and evaluate research, to perform research which advances knowledge and to provide effective instruction, all within a business-related discipline and in a supportive collegial environment. Specifically, the program is designed to provide:

- An academic understanding of the philosophies and basic methodological issues of academic inquiry
- An understanding of the theoretical state-of-the-art research methods in a specific discipline
- The ability to design and execute substantive research projects
- The ability to communicate research findings to diverse audiences.

Research Interests/Programs - Accounting; Finance & Quantitative Methods; Management; Marketing

Admission Requirements

- GMAT - Minimum 600 or GRE minimum 310
- Copies of transcripts from all higher education institutions attended and self-reported cumulative GPAs for each institution. All previous graduate credits must show a minimum grade point average 3.2 out of 4.0.
- TOEFL - (International students) minimum 550 (paper-based), 213 (computer based) or 79 (internet-based) or for the IELTS a minimum mean band score of 6.5 is required. Note: Permanent residents, graduating from US institution or schools outside the US in English-speaking countries such as Australia, Great Britain and English-speaking Canadian provinces, are not required to take the TOEFL.

Degree Requirements

Minimum requirements for the doctoral degree are 40 hours of graduate level coursework and successful completion of the Qualifying Examination followed by registration for a minimum of two consecutive semesters for dissertation residence credit and a successful defense of the dissertation. Registration for dissertation residence credit is required until the dissertation is defended and the degree awarded.

Core Requirements

- 3 credit hours in research methodology
- 6 credit hours in theoretical foundations
- 9 credit hours in research tools (including statistics)
- 1 credit hour in techniques for business education

Total credit hours in the core 19

Major Field Requirements

The major field consists of at least 21 hours of graduate credit course work including at least 12 credit hours of 700 level courses exclusive of the core. Currently available major fields include:

- Accounting
- Finance and Quantitative Methods
- Management

- Marketing and Supply Chain

All course work must be approved by the Director of Graduate Studies. Written and oral comprehensive examinations are required in the major field.

Post Qualifying Examination Requirements

- A dissertation based on original research on a significant topic is required. The dissertation is defended in an oral examination.
- 2 consecutive semesters (4 credit hours minimum) of dissertation research residence credit.

Maintenance of Good Standing

- A minimum average grade of B for graduate credit in all courses after being admitted to the Graduate School must be maintained.
- Doctoral students obtaining two grades of C are subject to dismissal from the program regardless of the number of offsetting A's.
- Doctoral students obtaining an E grade are subject to dismissal from the program.
- A student failing the Qualifying Exam is subject to dismissal.
- A student may be dismissed from the program after successfully passing the Qualifying Examination if in the judgment of the student's Advisory Committee he/she is not making satisfactory progress toward the completion of a dissertation.

Gatton Business Administration PhD Program

Chemical Engineering, PhD

The Department of Chemical and Materials Engineering offers programs leading to the M.S. and Ph.D. degrees in Chemical Engineering, with research specialization in the following areas:

- Biomaterials
- Drug Delivery
- Energy and Batteries
- Environmental Engineering
- Interfacial Engineering
- Materials Synthesis and Nanomaterials
- Membranes/Advanced Separations
- Molecular Dynamics

- Nanomaterials
- Polymer Science and Engineering
- Process Design
- Water Treatment

Admission Requirements

Admission to the M.S. and Ph.D. degree programs is on a competitive basis, and financial assistance is available through teaching and research assistantships, as well as a limited number of fellowships. Applicants should have a minimum grade point average of 3.0/4.0 on all undergraduate work and should hold a Bachelor of Science degree in Chemical Engineering or its equivalent. Meeting the minimum requirements does not guarantee admission, as acceptance is on a competitive and space-available basis. Students with undergraduate majors not in chemical engineering (for example, chemistry or physics) may be eligible for direct admission into the M.S. or Ph.D. graduate programs; these individuals are expected to complete a program of selected undergraduate core courses during their first year of study.

Degree Requirements

The Ph.D. degree is a research degree granted on the basis of broad knowledge of chemical engineering and specialized study in a specific area of interest. The student must conduct original and significant research and must submit and defend a dissertation based on that research. Course work requirements include the chemical engineering graduate core, and additional courses so as to fulfill the pre-candidacy residency requirements set forth by the Graduate School; the plan of study is developed by the student in consultation with the research advisor and the Director of Graduate Studies. Advancement to doctoral candidacy is contingent upon successful completion of both the written and oral portions of the Qualifying Examination. The written portion addresses three fundamental areas of the chemical engineering discipline: Kinetics and Reactor Design, Thermodynamics, and Transport. The oral portion consists of a presentation and defense of the student's proposed dissertation research; a prospectus prepared by the student must be submitted to the doctoral advisory committee prior to the examination. There is no language requirement for the M.S. or Ph.D. degrees in Chemical Engineering.

A wide selection of research topics is available under the direction of the Chemical Engineering faculty. Recent graduate-level elective courses include Biochemical Engineering, Biomedical Micro & Nanotechnology, Computational Materials Science, Drug Delivery, Energy Systems, Interfacial Engineering, Membrane Science and Technology, and Polymer Processing.

For more information, please contact the Director of Graduate Studies.

Chemistry, PhD

The Department of Chemistry at the University of Kentucky offers two graduate degrees—the MS and the PhD (doctoral) degree. In the MS degree program, the student has the option of pursuing the MS Plan A, which involves research and a thesis, or the MS Plan B, a non-thesis or coursework-only option. A Master's degree is not a prerequisite for the PhD degree.

Admission Requirements

Four years of chemistry covering the areas of general, organic, physical, and analytical constitute the normal minimum requirement for pursuing graduate work within this Department. Additional prerequisite undergraduate work includes one year of college physics, mathematics through calculus, and training in some foreign language. In special cases, exceptions to these rules may be made by the Director of Graduate Studies and the Graduate Program Committee. An undergraduate grade point average of at least 3.0 (based on a 4-point system) normally shall be required for admission as a graduate student in the Department of Chemistry. The Graduate Program Committee shall, however, be authorized to admit students with averages as low as 2.75, based on such evidence of ability as high GRE scores, recommendations, or excellent preparation. No students with undergraduate averages below 2.5 will be admitted. Graduate Students who lack specified prerequisites, or are found to be deficient in the Proficiency Examinations given during the orientation program, may make up their deficiencies by registering in and successfully completing the appropriate (usually undergraduate) courses.

Degree Requirements

Course work for the PhD shall include four core courses, one from each of four of the five areas of chemistry: analytical, biological, inorganic, organic and physical. Students who entered the program prior to the Fall 2014 semester must select one course from each of the two areas where the lowest proficiency examination scores were obtained. The following (three-credit) courses are officially "core" in each area: CHE 626 (Fall Analytical), CHE 623 (Spring Analytical); CHE 550 (Fall Biological), CHE 552 (Spring Biological); CHE 510 (Fall Inorganic), CHE 514 (Spring Inorganic); CHE 538 (Fall Organic), CHE 535 (Spring Organic); CHE 547 (Fall Physical), CHE 548 (Spring Physical). Students will not be making satisfactory progress unless they have completed at least 12 hours of course work other than research and seminar by the end of the first year and 24 hours of course work by the end of the second year. In addition, any time a student's GPA falls below a 3.0, this is automatically considered to be unsatisfactory performance. Students who are not making satisfactory progress after three semesters will be ineligible to serve as teaching assistants and may be terminated in the graduate program.

A minimum of 8 credits of graduate-level (500-level or above) Chemistry courses in addition to the required core courses. They shall be "regular" courses (that is, seminar, colloquium, practicum, independent study, and research course are excluded); they should generally be in the student's area of study. The second core course of a pair, if taken, can be considered an advanced or specialty course. A minimum of 3 credits of course work outside of the Department of Chemistry. These credits need not be in graduate-level courses, but must be approved by the advisory committee. Alternatively, these credits can be in graduate-level courses in the Department of Chemistry, selected in an area outside the student's area of concentration.

Please see the Department of Chemistry Graduate Program Handbook for more information related to the Graduate Program.

Please visit the Department of Chemistry website for more resources and information.

Civil Engineering, PhD

The Department of Civil Engineering offers the Ph.D. with specialization in the following areas:

- Civil Engineering Materials
- Construction Engineering and Management
- Environmental Engineering
- Geotechnical Engineering
- Hydraulics Engineering
- Structural Engineering
- Transportation Engineering
- Water Resources Engineering

These areas utilize courses from other departments and such inter-departmental programs are encouraged. Mechanical Engineering, Chemical Engineering, Agricultural Engineering, Mining Engineering, Mathematics, Computer Science, Geology, Biology, and Chemistry are some of the departments whose offerings contribute to the programs in Civil Engineering.

The Department of Civil Engineering has many well-equipped laboratories with active research programs in most areas. The research programs provide financial assistance for graduate students. In addition, financial assistance is available through teaching assistantships, fellowships, and scholarships. Information about the graduate program in Civil Engineering can be obtained by writing the Director of Graduate Studies, Department of Civil Engineering

Admission Requirements

In addition to satisfying general Graduate School and College of Engineering admissions requirements (a GPA of 2.8/4.0 on all undergraduate work is normally required), applicants for admission to the M.S.C.E., and Ph.D. degree programs in Civil Engineering must have been awarded a Bachelor of Science degree from an engineering program accredited by the Accrediting Board for Engineering and Technology (ABET). This requirement may be waived for applicants who have been awarded bachelor's degrees other than in engineering or from unaccredited engineering programs (including those offered by foreign institutions) if the applicant has received an acceptable score on the Graduate Record Examination (GRE).

Students with undergraduate majors not in engineering must also take a certain number of undergraduate remedial courses. Neither the M.S.C.E. degree nor the Ph.D. degree in Civil Engineering will be conferred unless the candidates have successfully completed, during their undergraduate and/or graduate careers, at least one basic course in at least four of the following seven areas: civil engineering materials, construction engineering and management, environmental engineering, geotechnical engineering, hydraulics and water resources engineering, structural engineering, and transportation engineering.

Another admission requirement is a minimum combined verbal and quantitative scores of GRE as follows: 1000 (300: New GRE), and 1100 (330: New GRE) for Master's and Ph.D. degree applicants, respectively. Scores on the analytical portion are not considered. Foreign applicants whose native language is other than English must take the Test of English as a Foreign Language (TOEFL) and score at least 550 (Computer Based TOEFL: 213, iBT TOEFL: 80).

Degree Requirements

The Ph.D. degree has no formal course requirement, but students must pass the Qualifying Examination before entering candidacy. There is no language requirement for the Ph.D. degree in Civil Engineering.

Clinical and Translational Science, PhD

The Department of Behavioral Science in the College of Medicine, in affiliation with the University of Kentucky Center for Clinical and Translational Science, offers a Ph.D. program in Clinical and Translational Science (CTS). The academic discipline focuses on acceleration of the translation of basic science advances to tangible improvements in public health. This interdisciplinary program is designed to expand research career opportunities for exceptional professionals with terminal professional health care degrees (e.g., physicians, nurses, dentists, pharmacists, public health professionals). Students enrolled in the MD/PhD Program are also eligible for admission.

The primary emphasis of the program is mentored research training to permit scholars to create well-reasoned original research contributions to the discovery of clinical health knowledge and its application. An interdisciplinary PhD Advisory Committee will play a prominent role in coordinating the individualized curriculum, research training and career development of the scholars in the program, based on scholar interest and background. A major professor (i.e., primary mentor), with the support of the Advisory Committee, will oversee research training and career development. A minimum of one faculty member in the Department of Behavioral Science who is a full member of the graduate faculty will serve as a primary or co-mentor. Other members of the Advisory Committee will be selected based on their abilities to support elements of the interdisciplinary research interests and career trajectories of the scholar, regardless of departmental affiliation.

Admission Requirements

Admission to the program is generally limited to 1) applicants with terminal health professional degrees with appropriate domestic licensure to practice and 2) students in the MD/PhD Program. Other students may apply to the program with consent of the Director of Graduate Studies.

Admission to the PhD in CTS program is through the Department of Behavioral Science. Inquiries about the Ph.D. program should be directed to the Director of Graduate Studies, Department of Behavioral Science.

Additional information may also be obtained from the Department of Behavioral Science website: <http://behavioralscience.med.uky.edu>

Degree Requirements

Scholars with a terminal health professional degree (or enrolled in the MD/PhD Program) are required to complete 18 credit hours of coursework to establish pre-qualifying residency status. This coursework typically consists of core competency-based courses in clinical and translational science (typically 13 credit hours) and tailored coursework developed in consultation with the major professor and advisory committee (minimum of 5 credit hours). The tailored portion of the curriculum will be designed to provide training needed for the scholar to lead interdisciplinary CTS research teams and/or sustain independent research programs that promote innovation and new discovery.

Core Curriculum

- BSC 731 METHODS AND TECHNOLOGIES IN CLINICAL AND TRANSLATIONAL SCIENCE (3)
- BSC 732 INTERDISCIPLINARY PROTOCOL DEVELOPMENT (3)
- BSC 733 SEMINAR IN CLINICAL AND TRANSLATIONAL SCIENCE (1-3)
- BSC 534 ETHICS AND RESPONSIBILITY IN CLINICAL RESEARCH (3)
- BSC 625 FUNDAMENTALS OF BIostatISTICS FOR CLINICAL AND TRANSLATIONAL SCIENCE (3)
- BSC 790 RESEARCH IN MEDICAL BEHAVIORAL SCIENCE (1-6)

Additional credit hours selected from graduate courses offered by health sciences colleges or related disciplines.

Program website: <https://behavioralscience.med.uky.edu/bscience-graduate-education>

Communication, PhD

The College of Communications and Information offers programs leading to the Master of Arts (either Plan A or Plan B) and Doctor of Philosophy degrees in Communication. The program offers special opportunities for students to apply communication theory and research across many contexts. Students may develop a program of study emphasizing (or combining) research areas such as health communication, information studies, instructional communication, media and mass communication, risk and crisis communication as well as strategic and organizational communication. The program is designed to serve the needs of students whose goals may include teaching and academic research, professional research, or communication careers in the media or other organizations.

Students pursuing work in health communication are encouraged to develop interdisciplinary programs involving the Department of Behavioral Science, the College of Medicine, as well as the Colleges of Dentistry, Health Sciences, Pharmacy, and Nursing. Communication also participates in interdisciplinary research programs with the Center for Prevention Research, the Sanders-Brown Center for Aging, and a variety of other health-related departments and institutes.

Admission Requirements

Students with an undergraduate degree from a fully accredited institution of higher learning and a grade point average of 3.0 on a 4.0 scale are admissible to the graduate program. Only students who have previously completed a master's degree may apply for admission into the doctoral program. Master's degree applicants are expected to have had at least twelve hours of appropriate undergraduate work in communication. Students with degrees in areas not directly related to communication are encouraged to apply, but they may be required to take course work without graduate credit. Should the Admissions Committee feel there is a deficiency in the applicant's studies, it may require enrollment in specific undergraduate courses. Courses taken to remove a deficiency cannot be counted towards the master's degree. In some cases, successful professional experience in a communication field will be considered in admitting students to the program.

Applicants must complete the University of Kentucky's Graduate School online-application and pay the application fee. Per the Graduate School's instruction, all applicants are required to submit official scores on the Graduate Record Examination and official transcripts of all work taken at and beyond the college level. Students whose native language is not English must also submit an official score of at least 550 (or 213 on the computer version or 79 on the internet-based version) of the Test of English as a Foreign Language (TOEFL) or a minimum of 6.5 of the International English Language Testing Service (IELTS). Additionally, all applicants must submit to the College of Communications and Information Studies Graduate Admissions office: (1) transcripts of all work taken at the college level (unofficial or photocopies are acceptable), (2) at least three letters of recommendation focusing on their academic abilities accompanied by the supplied Reference Form and (3) the completed Application Essay indicating why they want to pursue a graduate degree with their reasons for applying to the program. No additional forms are required for financial assistance consideration-all applicants will be considered for funding at the time of review.

The Admissions and Financial Aid Committee will review only completed admission files after January 5 of each year. Applications must have their completed file on record with the Associate Dean for the Graduate Programs in Communication by the deadline in order to be considered for fall admission. New graduate students are permitted to enroll only during the fall semester. Exceptions will be made only because of circumstances beyond the control of the applicant. This deadline does not apply to: (1) UK undergraduate students in the College of Communications and Information Studies applying as University Scholars, who may be admitted for summer, fall or spring semesters, and (2) current students in the M.A. Program in Communication or the M.L.S., M.S.L.S or M.S. in ICT.

Degree Requirements

The Ph.D. program emphasizes communication as a social science. Graduates are prepared for university positions and careers in government, the media and other organizations as researchers, consultants and policy makers. Students must demonstrate general knowledge of communication across various contexts, as well as competence in a core area of specialization. Current core areas include health communication, information studies, instructional communication, media and mass communication, risk and crisis communication as well as strategic and organizational communication.

Students must demonstrate a thorough grasp of communication theory and research methods and must take course work in a cognate area outside of Communication. Proficiency in a foreign language is not required for successful completion of the Ph.D. in Communication. A student's advisory committee may, however, stipulate certain graduate-level courses in another language for the student's program that are consistent with the objectives of the student's program. The required curriculum is as follows:

Fall Semester: Year 1

- CI 651 COMMUNICATION THEORY

- CI 664 QUALITATIVE METHODS IN COMMUNICATION RESEARCH
- STA 570 BASIC STATISTICAL ANALYSIS (or other advanced statistics course)

Spring Semester: Year 1

- CI 631 PROSEMINAR IN INTERPERSONAL COMMUNICATION OR CI 645 PRESEMINAR IN MASS COMMUNICATION THEORY
- CI 665 QUANTITATIVE METHODS IN COMMUNICATION RESEARCH

Fall Semester: Year 2

- CI 751 ADVANCED TOPICS IN COMMUNICATION THEORY CONSTRUCTION

All students are also required to complete at least 3 credit hours of CI 790 RESEARCH PROBLEMS IN COMMUNICATION by the last semester of course work.

The Associate Dean for Graduate Programs, in consultation with the Graduate Review committee, can waive any of the above requirements for a student who has previously taken the same or equivalent course at UK or another university for graduate credit. Each student works with a major professor and an advisory committee to plan course work and complete the dissertation. The committee also administers the qualifying examination and the final oral examination. The qualifying examination consists of a written and oral examination over general communication theory, the core area of specialization, research methods/statistics and the cognate area.

Computer Engineering, PhD

The MS and PhD programs in Computer Engineering (CPE) are offered in the College of Engineering jointly by the departments of Computer Science and Electrical and Computer Engineering. The field of computer engineering integrates expertise from both electrical engineering and computer science, emphasizing an understanding of computer architecture, hardware/software interface, and the integration of computers into products and systems at a larger scale. It involves developing technical skills in traditional areas of electrical engineering, such as analog and digital circuit design and communications systems, as well as in areas related to computer science, such as software development and operating systems. As might be expected in such a broad field, there are a great many specialty areas as well, which change regularly to match the needs of the job market. The programs support the College of Engineering's mission "to provide education, research, and service in a scholarly environment in a way that prepares our students for successful professional careers, addresses the changing needs of our other constituents, and responds to the technological challenges facing the Commonwealth and the Nation."

Admission Requirements

- CV
- Personal Statement
- Transcript showing a Bachelor's degree with a minimum GPA of 3.0 in an ABET or CSAB accredited undergraduate program in Computer Engineering, Computer Science, or Electrical Engineering.
- Background in discrete math, programming, data structures, circuits, digital logic, and computer architecture.

- Assistantship Application (Optional)
- Official GRE scores
- Three letters of recommendation
- Application Deadlines:
- Fall: July 15 (domestic applicants), March 15 (international applicants)
- Spring: November 30 (domestic applicants), August 15 (international applicants)

Degree Requirements

36 credits (pre-Qualifying exam), the Qualifying Exam, plus a doctoral dissertation

Both the MS and the PhD program require students to take nine credits of core coursework, to include 3 of the following courses:

- CS 570 MODERN OPERATING SYSTEMS
- EE 685 DIGITAL COMPUTER STRUCTURE
- CS 541 COMPILER DESIGN
- EE 580 EMBEDDED SYSTEM DESIGN

Students can focus their curriculum on a variety of areas, including cybersecurity, VLSI, computer architecture, quantum computing, advanced compiler techniques, and distributed operating systems. Any course in the CS and ECE departments may be used to complete the credit-hour requirements, and courses outside these departments may also apply, subject to DGS approval.

Of the 36 course credits, at least 24 credits must be courses in CS, EE, or CPE. The remaining courses must be approved by the DGS. At least 18 credits of the total coursework, including 12 credits of the CS/EE/CPE coursework, must be taken at the 600 or 700 level. Students entering the doctoral program with an MS degree in a relevant discipline (typically CS, EE, or CPE, or other technical discipline relevant to their area of study as determined by the Director of Graduate Studies) must complete at least 18 credit hours of additional course work beyond their MS. Of these 18 course credits, at least 12 must be courses in CS, EE, or CPE. At least 9 credits of the total coursework, including 6 credits of the CS/EE/CPE course work, must be taken at the 600 or 700 level.

Incoming students are informed of the graduate-school and program-specific academic policies at the orientation held before classes begin each fall. A handbook is also on the CS and ECE websites.

Computer Science, PhD

The Department of Computer Science offers the program of study leading to the Doctor of Philosophy in Computer Science degree. The doctoral program in Computer Science is a research degree granted primarily on the demonstration of substantial research achievement. Areas of research actively pursued by faculty and students within the department include: machine learning, artificial intelligence, data

mining, cybersecurity, operating systems, distributed computing and networking, cloud computing, parallel processing, data base technology, computer vision, bioinformatics, theory of computation, design and analysis of algorithms, numerical methods, computational science, and software engineering. Courses in these and other areas are available to permit students to complete studies of sufficient breadth and depth prior to engaging in independent research. Admission to the program is highly competitive and based upon academic record, GRE scores, and letters of recommendation, etc. It is strongly suggested that applicants present evidence of competence in computer science as well as mathematical maturity.

Admission Requirements

- Transcript showing a bachelor's degree (4 years or equivalent)
- GRE (waived for Fall 2021 and Spring 2022)
- TOEFL score (for international students)
- Three letters of recommendation
- Statement of purpose
- Additional requirements:
 - A GPA of at least 3.0 on a 4.0 scale
 - Evidence of Computer Science background. Students from a non-CS major may be required to take preparatory CS courses before they can be admitted into the program.

Degree Requirements

Residence requirement. PhD students must spend two years (36 credits of graduate course work, all courses be letter grade courses) in residence before the QE. CS MS students who transfer to the PhD program before earning the MS degree may count all their UK graduate credits earned towards the MS degree (except CS 768 and similar) towards the first and second year of residency.

1. First year. Either (a) Masters at UK, or (b) 18 graduate credits in CS at UK, or (c) transfer of residence credits from an awarded Masters at an accredited domestic or international school. Students request transfer by completing an online form. Prior approval for transfer from the DGS is necessary. In each case, student must still complete the breadth requirement (see next).
2. Second year. 18 additional graduate credits at UK.

Breadth requirement. Students fulfill the breadth requirement by taking at least one course from each of the following areas and receiving at least a B in all, and an A in at least two of them.

1. CS 505 INTERMEDIATE TOPICS IN DATABASE SYSTEMS, CS 541 COMPILER DESIGN

2. CS 570 MODERN OPERATING SYSTEMS, CS 571 COMPUTER NETWORKS
3. CS 515 ALGORITHM DESIGN, CS 575 MODELS OF COMPUTATION
4. CS 535 INTERMEDIATE COMPUTER GRAPHICS, CS 537 NUMERICAL ANALYSIS

A student who has taken equivalent courses elsewhere can ask for them to apply to the breadth requirement; each such case is evaluated on its merits by the DGS. In exceptional cases, when courses needed to complete the requirement are not offered, the DGS may approve other courses as equivalent replacements.

Depth requirement. The Depth process is individualized to the research focus of the student. The student's committee decides on the appropriate form of this process. It can be a written exam, an oral exam, a literature review, a published paper, some other requirement, or a combination of these. The student's committee informs the DGS when the student has accomplished this process.

The overall GPA must be 3.0 or higher.

No remaining incomplete grades before the qualifying exam.

In addition, the graduate school policies manual specifies additional requirements and procedures. It can be found on the graduate school website.

Incoming students are informed of the graduate-school and program-specific academic policies at the orientation held before classes begin each fall. A handbook is also on the CS website.

Early Childhood, Special Education, and Rehabilitation Counseling, PhD

The Counselor Education Doctoral Program offers a Departmental Ph.D. degree with a formal option in Counselor Education, Research, and Policy. The doctoral program is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The doctoral program is campus-based and is not offered on-line. We have carefully designed our doctoral curriculum to meet the needs of students who are preparing for careers in rehabilitation counselor education, research, and administration. Our students complete advanced doctoral seminars in rehabilitation counseling research, psychosocial aspects of chronic illnesses and disability, rehabilitation counseling theory, professional rehabilitation counseling issues, and rehabilitation administration and policy. In these courses, students explore a wide range of psychosocial, societal, and international perspectives on disability and counseling. In addition to the counseling professional seminars, doctoral students' complete coursework in the following areas:

1. A Graduate Core (23 hours), including coursework in college and university teaching, grant writing, clinical practicum experiences and practicum experiences in university teaching, and dissertation residency.
2. A Counselor Education area of emphasis core (15 hours) (counseling professional seminars, described above).
3. A thematic support area from outside the area of emphasis (15 hours), including interdisciplinary coursework consisting of courses from outside the Department, such as: Psychology, Rehabilitation Sciences, Educational and Counseling Psychology, Social Work, Sociology, Communication Disorders, or other areas, designed to develop the student's expertise in a focused area of rehabilitation counseling research, and typically this core directly relates to the student's dissertation topic.

4. A research block (21 hours), including course work in statistical methods, quantitative research methods, qualitative research methods, and mixed method approaches, and research internships.

Each student's program of studies is planned and supervised by an Advisory Committee consisting of 4 individuals, including the student's major professor and two other members from the Department. The remaining member represents the student's outside support area. Upon completion of the prescribed coursework, students are examined to evaluate their preparedness to be advanced to candidacy for the Doctor of Philosophy degree. The basis of this evaluation is completion of a qualifying examination administered by the student's Advisory Committee.

Admission Requirements

Applicants are required to have an undergraduate GPA of at least 2.75.

A Master's degree in Rehabilitation Counseling or a closely-related field with a GPA of at least 3.5. (Note: Students who are entering with a non-Rehabilitation Counseling Master's degree program may be required to take leveling, or foundational courses as described below.)

Submission of Graduate Record Examination (GRE) scores (mandatory for all doctoral applicants).

Minimum of one year (at least two preferred) of post- Master's experience in rehabilitation counseling or a related field (program will alternatively consider extensive prior related experience and exceptional academic performance on an individual basis).

- At least three (3) positive recommendations attesting to the candidate's professional disposition and fitness for the profession, self-awareness and emotional stability, oral and written communication skills, cultural sensitivity and awareness, and potential for scholarship, professional leadership, and advocacy.
- Written statement of the applicant's objectives for completing a doctoral program; and
- A sample of the applicant's academic and/or professional writing. Final admissions decisions are the purview of the Department's faculty.

Note: For students applying to the Ph.D. Formal Option with a Master's or graduate degree that is not from a CORE- or CACREP-accredited rehabilitation counseling program, foundational rehabilitation counseling content and core counseling content courses may be required prior to, or concurrent with enrollment. Decisions about the need for foundational coursework are the purview of the Program faculty and will be made on an individual basis, based on review of the applicant's previous graduate coursework, review of applicant's transcripts and course descriptions; previous graduate coursework may in some cases be substituted.

Foundational Coursework includes the following: (a) Foundations or Principles of Rehabilitation Counseling or Counseling, (b) Social and Cultural Diversity, (c) Human Growth and Development, (d) Career Theory and Development, (e) Individual and Group Counseling Theories and Models, (f) Assessment and Testing, (g) Research and Program Evaluation, (h) Psychosocial and Medical Aspects of Disability.

Degree Requirements

A typical course sequence is as follows:

1. Coursework from Professional Seminars in Advanced Rehabilitation Counseling may include:
 - CED 740 ADMINISTRATION, SUPERVISION AND PROGRAM EVALUATION IN REHABILITATION COUNSELING
 - CED 735 ADVANCED METHODS FOR TEACHING AND CONDUCTING RESEARCH IN COUNSELOR EDUCATION: FROM THEORY TO PRACTICE
 - CED 711 SEMINAR IN ADVANCED REHABILITATION PRACTICES AND PROCEDURES
 - CED 760 CONTEMPORARY PRACTICES IN REHABILITATION
 - CED 715 ADVANCED SEMINAR IN PSYCHOSOCIAL ASPECTS OF CHRONIC ILLNESS AND DISABILITY
 - CED 770 ADVANCED SEMINAR IN REHABILITATION COUNSELING THEORY, PRACTICE, AND EDUCATION
2. EDS 701 / CED 701 / IEC 701 : Seminar for EDSRC Leadership Personnel (1 credit each, 4 semesters) (4)
3. EDS 712 / CED 712 / IEC 712 : Seminar in EDSCE Professional Services (3)
4. EDS 720 / CED 720 / IEC 720 : Seminar in EDSCE Teacher Preparation (3)
5. EDS 721 / CED 721 / IEC 721 : Practicum in EDSCE Personnel Preparation (3-9)
6. EDS 767 / CED 767 / IEC 767 : Dissertation Residency Credit (≥ 4). EDS 767 is taken for a minimum of two credits per semester for two semesters (excluding summer terms) after successful completion of the qualifying examination.
7. CED 710 CLINICAL PRACTICUM IN COUNSELING (Doctoral Section)

Rehabilitation Counseling Area of Emphasis (15 credits)

Thematic Support Area (15 credits)

Research Tools (21 credits)

Required Practicum Experiences

Clinical practicum experiences are required of all doctoral students. As with the didactic portion of the curriculum, practica experiences are planned according to the individual backgrounds and needs of each student. Students are required to complete a 200-hour clinical practicum (40% of which must be direct client contact hours).

Required Internship Experience

In the course of their program plan, students will complete 600-clock hours of supervised internship, addressing three of the five following areas: Counseling, Supervision, Teaching, Research and Scholarship, Leadership and Advocacy. The internships are designed to ensure doctoral-level experience in counselor education areas including: campus and distance-based teaching, supervision, and clinical counseling. The nature and focus of the internship will be determined in consultation with each student individually.

Professional Involvement

We encourage and support student's professional development, with an emphasis on participation in the rehabilitation counseling profession at the national level through research, publication, and participation in national conferences and leadership opportunities in our national and regional rehabilitation counseling professional associations. We provide support to our students through research grants and teaching assistantships, and a number of funding opportunities that are available to our doctoral students through our graduate school.

Economics, PhD

The Ph.D. program is designed to enable the graduate to contribute to economic research and policy making. The program is aimed at preparing students for careers in academia, government, and the private sector. To attain these objectives, the program is structured to provide the student with the appropriate knowledge, understanding, skills and abilities, including:

1. An understanding of economic theory;
2. Skill in the use of quantitative techniques, specifically mathematics and statistics;
3. An extensive exposure to the research, institutions, and issues in several fields;
4. Experience in the development of research projects throughout their entire program;
5. Research and writing skills that will lead to the publication of original research; and
6. Competence in communicating economic knowledge to broad and diverse audiences.

More information about the PhD in Economics is available at <https://gatton.uky.edu/programs/phd/phd-economics>

Admission Requirements

Applications are submitted online through the Graduate School, and must include:

1. A resume
2. A one-to-two page personal essay about why you want to attend graduate school in economics
3. Two or three confidential letters of recommendation
4. Unofficial copies of your GRE scores, transcript, and TOEFL score (if required).

Degree Requirements

1. Economic Theory. The student must demonstrate competence in economic theory as demonstrated by passing a departmental written examination in economic theory. This examination will be given twice a year, at the beginnings of the spring semester and the eight-week summer session. Students failing the

examination will be given a second attempt; those failing on the second attempt will not be allowed to continue in the program. Minimum preparation for the written examination in economic theory can be achieved by taking the following core courses:

- ECO 601 ADVANCED MICROECONOMIC THEORY
- ECO 602 MACROECONOMIC THEORY
- ECO 701 NEOCLASSICAL MICROECONOMIC THEORY
- ECO 702 ADVANCED MACROECONOMIC THEORY

2. Statistics/Econometrics. The student must demonstrate competence in the area of statistics and econometrics. This competence may be demonstrated by satisfactory performance in the following courses:

- ECO 603 RESEARCH METHODS AND PROCEDURES IN ECONOMICS
- ECO 703 INTRODUCTION TO ECONOMETRICS I
- ECO 706 INTRODUCTION TO ECONOMETRICS II and
- ECO 707 RESEARCH SEMINAR IN ECONOMICS or ECO 790 TIME SERIES ANALYSIS

3. Elective Areas. All Ph.D. students must choose two fields of study approved by the student's Advisory Committee. The two fields may be chosen from the following: Environmental/Health Economics, Industrial Organization, International Economics, Labor Economics, Macroeconomics, Public Economics. Minimum course preparation for each field shall consist of at least two courses as determined by the student's Advisory Committee. In addition to the two chosen fields, the student is encouraged to take elective courses in other areas of economics, such as econometrics or economic theory, or in other disciplines such as Agricultural Economics, Finance, Marketing, Management, Mathematics, or Public Administration.

4. Supporting Work. At least nine hours of supporting course work must be selected. These courses must be approved by the student's Advisory Committee. This supporting work will allow the student to pursue more intensive study of one or both of the two chosen fields, or to pursue courses in other fields of economics. The supporting work cannot consist of 400 or 500 level courses, ECO 610 or ECO 611, ECO 652, or any of the core courses in economic theory (ECO 601, ECO 602, ECO 701, ECO 702, ECO 704, ECO 705) or econometrics (ECO 603, ECO 703, ECO 706). Supporting work can also be courses from other disciplines including Agricultural Economics, Finance, Mathematics, Statistics, or Public Policy with the approval of the Director of Graduate Studies.

5. Grades. Minimum average of grade B in all courses attempted for graduate credit after being admitted to the Graduate School. Students obtaining six quality points below a B average will automatically be dropped by the department.

6. Qualifying Examinations

a. Written Examination: The written examination must be taken in one of the student's two elective fields as part of the requirements for candidacy for the Ph.D. degree. The choice of the field in which the student takes the exam should reflect the intended field in which the student is to write his or her dissertation. This examination is given twice a session. Fields may elect to require a paper in addition to an exam; this will be communicated to the students at the beginning of the academic year. The written examination is prepared and graded by specialists in the respective fields. In the event that the student fails the examination, the student's Advisory Committee determines the conditions which must be met before another examination is given. The minimum time between

examinations is four months. Two failures to pass the written examination constitute failure of the qualifying examination.

b. Oral Examination: After passing the written qualifying examination, the Director of Graduate Studies will, on the advice of the Advisory Committee, schedule through the Graduate School an oral examination which will be administered by the Advisory Committee. The examination will ordinarily consist of the presentation and defense of a dissertation proposal.

7. The Ph.D. Dissertation. The dissertation will be based on original research on a significant topic. The dissertation will be defended in an oral examination.

Education and Counseling Psychology - Counseling Psychology, PhD

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology. Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

The Ph.D. program is offered in the specialty areas of counseling psychology, educational psychology, and school psychology under one departmental program. The Doctor of Philosophy programs in Counseling Psychology and in School Psychology are accredited by the American Psychological Association through its Office of Program Consultation and Accreditation (750 First Street, NE, Washington, DC 20002-4242, phone: 202.336.5500). A full-time, supervised one-year internship is required for both areas. Various concentrations are possible within the Ph.D. program. Representative of these are as follows: (a) learning, cognition, and curriculum design; (b) human development and social processes; (c) counseling psychology; (d) measurement, evaluation, and research design; and (e) school psychology.

Admission Requirements

Applicants to the Ph.D. Degree program in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the Ph.D. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will

facilitate movement through the program. Students with prior graduate work at the masters or specialist degree will also be considered for admission to advanced graduate status and, in the case of counseling psychology, are preferred. Students are selected for this program based on their undergraduate and prior graduate grade point average, Graduate Record Examination scores, letters of recommendation, personal statements describing their selection of a career in their chosen areas, writing samples, and personal interviews. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

Requirements to be added.

Education and Counseling Psychology - Educational Psychology, PhD

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology. Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

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Admission Requirements

Applicants to the Ph.D. Degree program in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the Ph.D. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students with prior graduate work at the masters or specialist degree will also be considered for admission to advanced graduate status and, in the case of counseling psychology, are preferred. Students are selected for this program based on their undergraduate and prior graduate grade point average, Graduate Record Examination scores, letters of recommendation, personal statements describing their selection of a career in their chosen areas, writing samples, and personal interviews. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

Year 1: Partial completion of required coursework-18-21 hours of formal coursework, including

- first-year doctoral seminar (3 hours)
- introduction to educational psychology class (3 hours)
- human lifespan development class (3 hours)
- one development and/or learning theories class (3 hours)
- two to three research methods classes (6-9 hours)

Selection of EDP members of Advisory Committee. Meeting with Advisory Committee to discuss program goals and objectives. Reflection and discussion with advisor regarding the independent study writing topic and research portfolio. Attendance at professional meetings and departmental colloquia.

Year 2: Continued progress on completion of required coursework-21 hours of formal coursework, including

- multicultural psychology (3 hours)
- one development and/or learning theories class (3 hours)
- two classes in area of specialization (6 hours)
- two research methods classes (6 hours)
- independent study writing project with major professor (3 hours)

Selection of full Advisory Committee (by fall of Year 2). Fulfillment of teaching requirement (including corresponding enrollment in EDP 782). Progress toward completion of research portfolio. Reflection and discussion with Advisory Committee regarding the proposed internship. Internship proposed to Committee. Presentation at professional meetings and departmental colloquia.

Year 3: Completion of required coursework-18-21 hours of formal coursework, including

- two to three research methods classes (6-9 hours)
- one development or learning theories class (3 hours)
- one class in area of specialization (3 hours)
- internship in educational psychology (3-6 hours)

Completion of research portfolio and internship. Successful completion and oral defense of qualifying examination. Presentation at professional meetings and departmental colloquia. Progress on converting the empirical research study from research portfolio into a publishable manuscript.

Year 4: No formal coursework, with the exception of continued enrollment in EDP 767, Dissertation Residency Requirement. Submission of empirical study to refereed journal. Completion and defense of

Dissertation Proposal. Permission obtained from Institutional Review Board to conduct research. Substantial progress on Dissertation data collection. Presentation at professional meetings and departmental colloquia.

Year 5: No formal coursework, with the exception of continued enrollment in EDP 767, Dissertation Residency Requirement. Completion and defense of Dissertation. Submission of dissertation for publication in refereed journal(s).

Education Sciences, PhD

The Interdisciplinary Ph.D. in Education Sciences (major code: EDSC) program is designed for individuals seeking careers in educational research. Graduates of the program are prepared to meet the growing national need for educators who are well trained in methodological issues in education research. This Ph.D. program prepares individuals who will have careers in research universities, educational research labs and corporations, and research groups within education agencies.

All EDSC students will be encouraged to apply for 20-hour per week research assistantships on grant supported projects in the College of Education and other units at the University of Kentucky. In addition to coursework, students will be expected to attend local, state, or national professional conferences during the first and second years of their programs. All students will be expected to present their research at professional conferences by their third year in the program. EDSC doctoral students are expected to submit manuscripts to professional journals and accomplish refereed publications during their doctoral study. Presentations and publications may be scholarly works with a single author or groups of co-authors.

Curriculum

EDSC is a rigorous doctoral program that requires year-round, full-time study. Students are encouraged to apply for admission for the Fall semester. Students seeking Spring admission should contact the program DGS to determine if the strand they are interested in allows for Spring admissions. Students will be required to complete a set of core courses in research methods and education policy; in addition, students will then be able to follow a particular "strand" of courses in an area of specialization. All students will be involved in educational research projects throughout their time in the program.

EDSC doctoral students will be required to designate at the time of application the strand that they would like to complete. These include advanced concentrations in the following:

- Curriculum and Instruction
- Educational Leadership Studies
- Educational Policy Studies: Educational Evaluation and Policy
- Educational Policy Studies: Philosophical and Cultural Inquiry
- Health education
- Physical education
- Quantitative and Psychometric Methods
- STEM education

<https://education.uky.edu/research/phd/>

CURRICULUM AND INSTRUCTION

- The Ph.D. in Interdisciplinary Education Sciences - Curriculum & Instruction strand prepares individuals for careers in educational research. Graduates of the Curriculum & Instruction strand of the Education Sciences program pursue a variety of career opportunities, including becoming university faculty in Curriculum & Instruction departments; assuming advanced leadership positions in schools, districts, and state governments; or working for curriculum development companies or in private consulting, among others.
- Within the Curriculum & Instruction strand, students may specialize in an educational content area within Curriculum & Instruction, such as Instructional Systems Design, Literacy education, or Social Studies education, or they may study Curriculum & Instruction more broadly.

Admission Requirements

- Applicants are evaluated holistically, with attention paid to prior educational achievement and professional experience. Interviews are frequently requested. All materials may be submitted through The Graduate School's online application process. Applicants must submit the following materials to be considered for admission:
 - GRE scores
 - Transcripts from all prior institutions of higher education
 - Personal statement
 - CV or resume
 - Writing sample from prior academic work
 - 3 letters of recommendation
- Applicants are encouraged, but not required, to submit a departmental application for teaching or research assistantships along with their application for program admission.

Degree Requirements

- Students must take a minimum of 36 credit hours of coursework prior to the qualifying examination and the dissertation. This coursework is divided into the following categories:
 - A minimum of 12 credits of research methodology coursework.
 - A program core of 12 credits, including a proseminar, coursework in curriculum theory, and coursework in multicultural issues in education
 - A specialization core of 12 credits in Instructional Systems Design, Literacy Education, Social Studies Education, or Curriculum & Instruction.

- Students are encouraged to take elective courses in departments outside of Curriculum & Instruction.

EDUCATIONAL LEADERSHIP STUDIES

- The Doctor of Philosophy (PhD) Educational Leadership strand prepares academicians and university faculty in the study of leadership within educational contexts.
- The Doctor of Philosophy (PhD) Educational Leadership strand is a cohort-based program with online courses, qualifying examinations, and dissertation defense.
- The degree consists of 42 minimum course credit hours and a minimum of 4 credits of dissertation residency (does not need to be completed in Kentucky).

Admission Requirements

- Earned Masters, from a fully accredited institution, with a 3.5 GPA on a 4.0 scale.
- Transcripts from previous post-secondary institutions.
- Professional Resume
- Personal Statement
- Diversity, Equity & Inclusion Statement
- 3 Recommendations, with at least one academic who has earned a doctoral degree and serves in an academic institution and one professional to speak to your creativity, ability to navigate systems.
- On-demand writing sample
- Completed graduate-level basic statistics course by August 15 of the semester of program start.

Degree Requirements

- 42 minimum credits of coursework, 4 minimum credits of dissertation residency. Minimum of 46 credits total.
- 14 courses (5 leadership; 5 research; 4 electives) of pre-dissertation coursework typically earned over 7 semesters including summer.
- Qualifying examination after completion of 42 credit hours of coursework
- Student must remain enrolled in EDL 767 Dissertation Residency Credit from the semester they sit for their Qualifying Examination through semester they defend their dissertation.
- Final dissertation defense.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A masters degree or equivalent level of coursework
- A 500-word statement of purpose describing the student's intellectual and professional goals for completing the program. Applicants are advised to clearly indicate the areas of coursework and research they wish to pursue.
- Four letters of reference with at least two from referees familiar with the students' academic work
- Resume or Curriculum Vitae
- Writing sample demonstrating academic writing (e.g. chapter of master's thesis, course paper, scholarly essay)
- Application Deadlines vary by department, consult the EDSC webpage for details.
- GRE is not required for Specialization in Evaluation and Education Policy or Philosophical and Cultural Inquiry

Degree Requirements

Students are required to complete 12 hours of core research classes

- One three-hour course in quantitative research methods.
- One three-hour course in qualitative research methods.
- One additional and complementary three-hour course in either quantitative or qualitative methods to form a "core" of six hours in quantitative or qualitative methods.
- One three-hour course in advanced studies in research methods. The advanced course may be in any area, including internships and academic writing, and will typically include "Advanced" in the course title. This course is to be selected by the advisory committee to meet the specific research training needs of the student.

The EDSC-Educational Evaluation & Policy Specialization includes the above 12 hours of core research and

- EPE 601 PROSEMINAR
- EPE 619 SURVEY RESEARCH METHODS IN EDUCATION (SUBTITLE REQUIRED)

- EPE 620 TOPICS AND METHODS OF EVALUATION
- One additional three-hour course in advanced research methods
- One three-hour course in policy research
- One three-hour course in contextual studies
- Nine hours of electives chosen in conjunction with the students Advisory Committee.

A student's program of study may vary from this structure with approval from their program committee.

<https://education.uky.edu/epe/>

EDUCATIONAL POLICY STUDIES: PHILOSOPHICAL AND CULTURAL INQUIRY

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A masters degree or equivalent level of coursework
- A 500-word statement of purpose describing the student's intellectual and professional goals for completing the program. Applicants are advised to clearly indicate the areas of coursework and research they wish to pursue.
- Four letters of reference with at least two from referees familiar with the students' academic work
- Resume or Curriculum Vitae
- Writing sample demonstrating academic writing (e.g. chapter of master's thesis, course paper, scholarly essay)
- Application Deadlines vary by department, consult the EDSC webpage for details.
- GRE is not required for Specialization in Evaluation and Education Policy or Philosophical and Cultural Inquiry

Degree Requirements

Students are required to complete 12 hours of core research classes

- One three-hour course in quantitative research methods.
- One three-hour course in qualitative research methods.

- One additional and complementary three-hour course in either quantitative or qualitative methods to form a "core" of six hours in quantitative or qualitative methods.
- One three-hour course in advanced studies in research methods. The advanced course may be in any area, including internships and academic writing, and will typically include "Advanced" in the course title. This course is to be selected by the advisory committee to meet the specific research training needs of the student.

The EDSC-Philosophical and Cultural Inquiry Specialization includes the above 12 hours of core research and

- EPE 601 PROSEMINAR
- One three-hour course in philosophical studies
- One three-hour course in cultural studies
- One three-hour course in historical studies
- Six hours of electives focused on philosophical or cultural inquiry outside the College of Education
- Nine hours of electives chosen in conjunction with the students Advisory Committee.

A student's program of study may vary from this structure with approval from their program committee.

<https://education.uky.edu/epe/>

HEALTH EDUCATION

Customize a health education doctorate (Ph.D.) to follow your passion for a career in higher education. Our program will prepare you for research-focused faculty positions or careers that involve conducting research on behalf of community health agencies and organizations, corporations, or health-related governmental agencies. You will explore both individual and population health, focusing on evidence-based strategies, application of health behavior theory, and research inquiry across a variety of health topics and target populations.

In the health education Ph.D. program at the University of Kentucky, you will:

- develop an understanding of the full spectrum of health education, as well as an in-depth knowledge of one specific area or discipline, such as college health promotion, youth health promotion, substance use prevention, community-based research/interventions, health inequities, and health policy
- participate in guided research projects designed to prepare you for conducting your own research
- conduct independent research aligned with your career goals as you develop scientific expertise
- gain teaching experience at the university level, preparing master's students for careers in health education
- write and publish research in high-quality journals

- collaborate with faculty on research and service projects
- have opportunities for multidisciplinary work within health education, health promotion, communication, social sciences, and/or other public health disciplines and topics.

With small class sizes in our health education graduate program, you will receive individual attention. We have a thriving graduate program in the Department of Kinesiology and Health Promotion and place the highest value on ethics, professionalism, and interdisciplinary work.

The PhD program utilizes a mentor-based admission process. Therefore, students are strongly encouraged to identify a faculty member with whom they wish to work prior to applying to the program.

<https://www.uky.edu/academics/doctoral/education-sciences-health-education-graduate>

Admission Requirements

- A master's degree or 30 semester hours of approved graduate course work with a 3.0 GPA.
- GRE: Not required
- CV
- Personal Statement: Statement of your professional aspirations and explain how you believe graduate study at the University of Kentucky will enhance your ability to achieve those professional goals. In your statement, provide information about your background, research skills and experiences, personal and professional achievements, and educational, work or life experiences that influenced you and your life goals.
- Writing Sample: Students who have not written a Master's level thesis will be required to submit an example of their research writing. A literature review or project from a completed class are acceptable examples for submission for application. Special circumstances will be considered at the discretion of the applicant's designated potential advisor.
- Four letters of recommendation: At least two must be from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

Degree Requirements

Our PhD. degree with specialization in Health Education requires students to complete a minimum of 42 hours of course work. The doctoral degree requires students to complete a core of 9-12 hours of health promotion courses, 12 hours of research/statistics/design courses plus supporting electives for a total of at least 42 hours. Students, with the approval of their advisory committee, select elective course work that will enhance their health education and health promotion knowledge and skills as well as their research skills. Additional information, including possible pre-requisites and electives, can be found on the departmental website: <https://education.uky.edu/khp/grad/>

The general structure of the coursework needed to complete the Ph.D. in Education Sciences with advanced concentration in Health Education course requirements is as follows:

- Pre-requisite courses (based on review of transcripts)
- Health Promotion Core Courses (9 hours)

- Research Methods/Stats Courses (12 hours minimum)
- Cognate Area (9 hours minimum)
- Independent Study/Research (6 hours minimum)
- Electives (6 hours minimum)
- Dissertation Hours (4 hours minimum)

PHYSICAL EDUCATION SPECIALIZATION

Searching for a physical education graduate school to best fit your interests? Customize our physical education doctorate program (Ph.D.) to follow your passions. You will gain an understanding of the full spectrum of physical education, along with in-depth knowledge of one specific area or disciplines such as comprehensive school physical activity programs, behavior management in activity settings, and motivating individuals to be active. Both online and face-to-face options available.

In the physical education doctorate program (Ph.D.) at the University of Kentucky, you will:

- participate in guided research projects designed to prepare you for conducting your own research
- conduct independent research as you develop scientific expertise
- gain teaching experience at the university level, preparing bachelor's and master's students for careers in physical education and health teaching
- write and publish research in high-quality journals
- collaborate with faculty on research and service projects
- network with physical education teacher educators from across the country and around the world

You will develop extensive subject-matter expertise and discover potential research topics in courses covering physical education, physical activity promotion, epidemiology, sociology, behavioral science, and public health.

Admission Requirements

- A master's degree or 30 semester hours of approved graduate course work with a 3.0 GPA.
- GRE: Not required
- CV
- Personal Statement: Statement of your professional aspirations and explain how you believe graduate study at the University of Kentucky will enhance your ability to achieve those professional goals. In your statement, provide information about your background, research skills and experiences, personal and professional achievements, and educational, work or life experiences that influenced you and your life goals.

- **Writing Sample:** Students who have not written a Master's level thesis will be required to submit an example of their research writing. A literature review or project from a completed class are acceptable examples for submission for application. Special circumstances will be considered at the discretion of the applicant's designated potential advisor.
- **Four letters of recommendation:** At least two must be from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

With small class sizes in our physical education graduate programs, you will receive individual attention. We have a thriving graduate program in the Department of Kinesiology and Health Promotion and place the highest value on ethics, professionalism, and interdisciplinary work.

Degree Requirements

The PhD program has a required core of classes and sample of electives. The student may have an emphasis in specific areas of education. Additional information, including possible pre-requisites and electives, can be found on the departmental website: <https://education.uky.edu/khp/grad/>

Required Research Methods and Statistics Core (12 hours)

Includes a minimum of 3 hours of qualitative and 3 hours of quantitative analysis.

A total of nine hours must be chosen from either quantitative or qualitative courses. Three additional hours of advanced study are to be selected by the advisory committee to meet the specific research and statistical training needs of the student.

Advanced Strand (18 hours)

- KHP 601 TEACHING EFFECTIVENESS AND LEADERSHIP IN KINESIOLOGY AND HEALTH EDUCATION
- KHP 602 PROMOTING PHYSICAL ACTIVITY FOR YOUTH
- Two additional courses in KHP or related area (6+ hours)

Other related courses including research courses (6+ hours)

- KHP 695 INDEPENDENT STUDY IN KINESIOLOGY AND HEALTH PROMOTION
- KHP 782 INDEPENDENT RESEARCH IN KINESIOLOGY AND HEALTH PROMOTION

Dissertation (2+ hours)

- KHP 767 DISSERTATION RESIDENCY CREDIT (2 hrs/semester after passing qualifying exams)

QUANTITATIVE AND PSYCHOMETRIC METHODS

The primary objective of the QPM program is to promote the development of advanced quantitative and psychometric knowledge and skills that allow program graduates to function as competent independent

researchers or scientists who can innovatively and effectively carry out research design and data analysis for all kinds of empirical purposes.

Admission Requirements

- Degrees
 - For admission of exceptional undergraduate students. Undergraduate degrees in STEM, social sciences, behavioral sciences, education sciences, and other fields with adequate coursework in mathematics and/or statistics.
 - Master degrees in STEM, social sciences, behavioral sciences, education sciences, and other fields with adequate coursework in mathematics and/or statistics.
- GPA (no minimum standard)
- GRE General (no minimum standard)
- TOEFL (for international students, UK minimum standard)
- Personal statement
- Three (3) reference letters

Degree Requirements

- 36 credit hours of coursework
- Common Research Methods and Statistics Core (12 hours)
- Interdisciplinary Core (6 hours)
- Quantitative and Psychometric Methods (QPM) Core (18 hours)
- Internship (optional)
- Qualifying Exam (after completion of coursework)
- Dissertation Proposal Defense
- Final Dissertation Oral Defense

<https://education.uky.edu/edp/qpm/>

STEM EDUCATION

The Education Sciences Interdisciplinary Ph.D. with an emphasis in STEM Education is an intensive program designed to prepare future researchers, teacher educators, and researcher-practitioners to meet the national call for more individuals with heightened scholarly expertise in STEM Education. The Education

Sciences Interdisciplinary Ph.D. program requires study throughout the year. Full-time study is strongly encouraged; however, part-time study is a possible alternative, particularly for professional educators.

Admission Requirements

- GRE scores (preferably from within the past 10 years - if you are a KY teacher applying for rank change, GRE must be within the last 5 years)
- TOEFL or IELTS (for international students whose native language is not English)
- GPA requirement: 2.75 undergraduate; 3.0 Graduate work
- Official transcripts: official transcripts from all post-secondary institutions attended
- A short statement about your career goals and interests
- Writing sample (e.g., paper written for coursework requirement, grant application, publication)
- Three letters of recommendation (the online system will email your references to submit their letters)
- Interview with STEM Ed faculty specializing in your area of interest (Interview will be scheduled upon completion of application materials)
- Onsite writing sample prior to interview

Degree Requirements

- Total credit hours - 45 credit hours plus qualifying exam and dissertation residency
- 12 hours education research methods
- 15 hours STEM Education core
- 9 hours STEM Education methods
- 9 hours electives
- Electives can be graduate level coursework in any discipline, but it is recommended that they are at the 600 level or above. (optional)

<https://education.uky.edu/stem/graduate/phd/>

Educational Leadership, EDD

- The Doctor of Education (EdD) in Educational Leadership Studies prepares scholar-practitioners to assume leadership roles in diverse educational settings.
- The Doctor of Education (EdD) is an executive, cohort-based program with online courses, qualifying examinations, and dissertation defense.

- The degree consists of 42 minimum course credit hours and a minimum of 4 credits of dissertation residency (does not need to be completed in Kentucky).
- Mixed Methods Action Research (MMAR) design utilized for the dissertation.
- Applicants who plan to seek administrator certification (e.g., school principal, superintendent) can use up to two electives to partially fulfill requirements. However, they must meet all additional requirements imposed by the Kentucky Educational Professional Standards Board.

Admission Requirements

- Earned Masters, from a fully accredited institution, with a 3.5 GPA on a 4.0 scale.
- Transcripts from previous post-secondary institutions.
- Professional Resume
- Personal Statement
- Diversity, Equity & Inclusion Statement
- 3 Recommendations, with at least one academic from practicing scholar, one leadership based from practitioner.
- On-demand writing sample Completed graduate-level basic statistics course by August 15 of the semester of program start.

Degree Requirements

- 42 minimum credits of coursework, 4 minimum credits of dissertation residency. Minimum of 46 credits total.
- 16 courses (eleven 3-credit hour; three 1-credit hour required, two 3-credit hour electives) of pre-dissertation coursework typically earned over 8 semesters including summer.
- Qualifying examination utilizing the MMAR framework.
- Student must remain enrolled in EDL 767 Dissertation Residency Credit from the semester they sit for their Qualifying Examination through semester they defend their dissertation.
- Final dissertation defense.

Educational Policy Studies, Measurement, and Evaluation, EDD

The Ed.D. program in Educational Policy Studies, Measurement, and Evaluation (EPME) provides advanced study for those who seek careers in the administration or evaluation of educational programs in schools, colleges, or other institutional settings. Ed.D. candidates may pursue a variety of research interests including but not limited to institutional research and assessment, educational measurement and evaluation, P-12 educational policy issues, post-secondary education, comparative education, and community/continuing education issues.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A statement of purpose describing the student's intellectual and professional goals for completing the program. Applicants are advised to clearly indicate the areas of coursework and research they wish to pursue.
- Four letters of reference with at least two from referees familiar with the students' academic work
- Resume or Curriculum Vitae
- Writing sample demonstrating academic writing (e.g., chapter of masters thesis, course paper, scholarly essay)
- Rolling Admission, Apply Anytime.

Degree Requirements

- 43 Credit hours or equivalent preparation meeting UK requirements for residency prior to a qualifying exam for doctoral candidacy and a dissertation.
- All EPE students are required to take EPE 601 Proseminar (1 credit hour) during their first semester of study in the department.
- All EPME doctoral students build a program of study consisting of a minimum of 15 hours in a core area of concentration, at least 9 hours of research, and the rest of their hours in supporting coursework chosen in consultation with their advisory committee. Students are encouraged to take multiple courses in contextual studies in education and to take supporting coursework both inside and outside the College of Education.
- A student's program of study may vary from this structure with approval from their program committee.
- The EdD qualifying exam consists of two parts. 1) A literature review building a rationale for a compelling problem of practice must be accepted by the advisory committee followed by 2) the defense of a full research proposal investigating that problem of practice. The defense of proposal represents the official qualifying exam.

- The EdD dissertation requirements are the same as those for the PhD. EdD candidates are encouraged to consider multiple stakeholders and to contextualize their study in a new or emerging problem of practice.

Education.uky.edu/EPE

Educational, School, and Counseling Psychology - School Psychology, PhD

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology. Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

The Ph.D. program is offered in the specialty areas of counseling psychology, educational psychology, and school psychology under one departmental program. The Doctor of Philosophy programs in Counseling Psychology and in School Psychology are accredited by the American Psychological Association through its Office of Program Consultation and Accreditation (750 First Street, NE, Washington, DC 20002-4242, phone: 202.336.5500). A full-time, supervised one-year internship is required for both areas. Various concentrations are possible within the Ph.D. program. Representative of these are as follows: (a) learning, cognition, and curriculum design; (b) human development and social processes; (c) counseling psychology; (d) measurement, evaluation, and research design; and (e) school psychology.

Admission Requirements

Applicants to the Ph.D. Degree program in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the Ph.D. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students with prior graduate work at the masters or specialist degree will also be considered for admission to advanced graduate status and, in the case of counseling psychology, are preferred. Students are selected for this program based on their undergraduate and prior graduate grade point average, Graduate Record Examination scores, letters of recommendation, personal

statements describing their selection of a career in their chosen areas, writing samples, and personal interviews. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

Area A: Psychological Foundations (24 semester hours):

Biological Aspects of Behavior (3 hrs.)

- PGY 627 PROSEMINAR IN PHYSIOLOGICAL PSYCHOLOGY / PSY 627 PROSEMINAR IN PHYSIOLOGICAL PSYCHOLOGY

Human Learning, Cognitive & Affective Aspects of Behavior (9 hrs.)

- EDP 600 LIFE SPAN HUMAN DEVELOPMENT AND BEHAVIOR
- EDP 603 HUMAN COGNITIVE DEVELOPMENT
- EDP 614 MOTIVATION AND LEARNING

Social Aspects of Behavior (3 hrs.)

- EDP 513 SOCIAL ASPECTS BEHAVIOR

Individual Differences (6 hrs.)

- EDP 669 DIAGNOSTIC CLASSIFICATION IN SCHOOL PSYCHOLOGY
- EDP 616 MULTICULTURAL PSYCHOLOGY or PSY 779 TOPICAL SEMINAR IN SOCIAL PSYCHOLOGY

History & Systems of Psychology (3 hrs.)

- EDP 533 HISTORY AND SYSTEMS OF PSYCHOLOGY

Area B: Scientific Foundations (15 semester hours):

- EDP 558 GATHERING, ANALYZING & USING EDUC DATA
- EDP 656 METHODOLOGY OF EDUCATIONAL RESEARCH
- EDP 660 RESEARCH DESIGN AND ANALYSIS IN EDUCATION
- EDP 679 INTRODUCTION TO MEASUREMENT THEORY AND TECHNIQUES
- Approved Elective (EPE 620 ; EPE 621 ; EDS 633 ; EDP 711 ; EPE 763)

Area C: Professional Practice Foundations (43 Credit Hours):

Professional Identity (16 hrs.)

- EDP 570 INTRODUCTION TO PSYCHOLOGICAL SERVICES IN SCHOOLS
- EDP 658 PROBLEMS IN EDUCATIONAL PSYCHOLOGY (4 hrs.)
- EDP 622 SUPERVISION IN SCHOOL PSYCHOLOGY I: THEORETICAL MODELS OF PRACTICE / EDP 623 SUPERVISION IN SCHOOL PSYCHOLOGY II: APPLICATION FOR PRACTICE (3rd or 4th year seminar: 6 credit hours)
- EDP 770 LEGAL & ETHICAL ISSUES IN PROFESSIONAL PSYCHOLOGY

Diagnosis & Assessment (9 hrs.)

- EDP 640 INDIVIDUAL ASSESSMENT OF COGNITIVE FUNCTIONING
- EDP 642 INDIVIDUAL ASSESSMENT OF PERSONALITY FUNCTIONING
- EDP 776 SEMINAR IN SCHOOL PSYCHOLOGY (SUBTITLE REQUIRED)

Intervention (18 hrs.)

- EDP 670 PSYCHOEDUCATIONAL STRATEGIES OF INTERVENTION
- EDP 671 SEMINAR IN PSYCHOEDUCATIONAL CONSULTATION IN SCHOOLS
- EDP 704 SOCIAL JUSTICE CONSULTATION AND EVALUATION
- EDP 605 INTRODUCTION TO COUNSELING: TECHNIQUES I
- EDS 601 CONCEPTS AND PRINCIPLES OF APPLIED BEHAVIOR ANALYSIS
- EDP 680 PARENT AND CHILD COUNSELING

Area D: Educational Foundations (9 semester hours):

- EDC 619 ASSESSMENT OF READING GROWTH AND DEVELOPMENT
- EDC 732 CURRICULUM DESIGN FOR LEARNING AND LEADING
- EDS 611 CONTEMPORARY TRENDS AND ISSUES IN THE EDUCATION OF STUDENTS WITH MILD DISABILITIES.
- EDC 550 EDUCATION IN A CULTURALLY DIVERSE SOCIETY
- EPE 665 EDUCATION AND CULTURE
- EDS 522 CHILDREN AND FAMILIES
- EDS 600 SURVEY OF SPECIAL EDUCATION
- EDS 603 BEHAVIORAL CONSULTATION AND SUPERVISION
- EDS 595 SCHOOL LEVEL SERVICES AND FAMILY-SCHOOL COLLABORATION

Area E: Supervised Experience (18 hours):**Supervised Experience Component**

- EDP 674 SCHOOL-BASED PRACTICUM IN SCHOOL PSYCHOLOGY (6 hrs.)
- EDP 675 PRACTICUM IN SCHOOL PSYCHOLOGY (6 hrs.)
- EDP 708 INTERNSHIP IN EDUCATIONAL, SCHOOL, AND COUNSELING PSYCHOLOGY (6 hrs.)

Electrical Engineering, PhD

The Department of Electrical and Computer Engineering offers advanced studies leading to either a Master of Science in Electrical Engineering or a Doctor of Philosophy in Electrical Engineering.

The Department of Electrical and Computer Engineering has active research programs in the following areas: power electronics, power systems, electromechanics, computer engineering, control systems, electromagnetics, electro-optics, micro and nano-electronics, signal processing, communication systems, and controls. Departmental laboratories are well-equipped for students' research. In addition, the Power and Energy Institute of Kentucky provides additional research opportunities.

Admission Requirements

A minimum grade point average of 3.0/4.0 on all undergraduate work is required for admission to the graduate program. A minimum GRE general test scores of 301 (combination of Verbal and Quantitative sections) and analytical writing of at least 2.5 for the M.S. degree. The corresponding minimum GRE scores for Ph.D. degree are 310 (V+Q) and 3.0 (Writing). Meeting the minimum requirements does not guarantee admission will be granted. Acceptance is based upon a competitive evaluation and on a space availability basis. An undergraduate degree in electrical engineering is preferred. Those applicants without a B.S.E.E. degree from an ABET accredited EE program should develop competence and demonstrate ability in the fundamentals of electrical engineering. Such students, before being admitted to full graduate standing within the department, must take (or have taken an equivalent of) a set of prescribed electrical engineering remedial courses. A minimum grade of C must be made in these courses.

Degree Requirements

For the PhD degree, students who only have a B.S. degree must complete 42 hours of course work. Students who have a M.S. degree from an accredited institution must complete 18 hours of course work. Students who have a M.S. degree from a non-accredited institution must complete 24 hours of course work.

In order to assure a minimum breadth and level of understanding at the graduate level, all EE graduate students must take three of six specified courses from the major areas of electrical engineering. These courses are:

- EE 611 DETERMINISTIC SYSTEMS
- EE 621 ELECTROMAGNETIC FIELDS
- EE 640 STOCHASTIC SYSTEMS
- EE 641 ADVANCED POWER SYSTEMS
- EE 661 SOLID-STATE ELECTRONICS
- EE 685 DIGITAL COMPUTER STRUCTURE

PhD students must also take a course in technical writing such as WRD 204.

English, PhD

The Doctoral Program in English at the University of Kentucky is designed to train students for the professoriate as both superb teachers and first-rate scholars through seminar work, qualifying exams in specific periods and subfields of literary study, and a long-form, original research project (the dissertation). The doctoral program is designed to lead to the PhD in five years of study beyond the MA degree. With a diverse range of graduate seminars and an active research faculty, the PhD program prepares students for a successful professional career in academia. Students can specialize in the fields of British, American, or Anglophone. Students will gain a broad expertise that will prepare them for researching and writing the dissertation. We are committed to the professional training of our students, and they have been successful in gaining academic employment. With rare exceptions, all enrolled doctoral students are funded through TAs.

The department offers a wide variety of specializations not only in traditional literary history but also in film studies, cultural studies, African-American Studies, and Postcolonial Theory. The Department of English consists of 41 full-time faculty members who offer a range of courses in British, American, African-American, and Women's Literature, Creative Writing, Film, and Literary Theory. The graduate program relies on a nationally recognized faculty, a strongly supportive University of Kentucky Research Foundation, an active university press, and a research library of 1.2 million volumes.

Admission Requirements

Students eligible for the PhD program must have:

- A UGPA of at least 3.25 and a GGPA of at least 3.0. Unofficial transcripts from all attended institutions are required. If the student is admitted and accepts, the graduate school will require all official transcripts. University of Kentucky graduates should note their degrees on the application but are not required to submit transcripts.
- Three letters of recommendation, preferably from faculty familiar with the student's strengths and interests.
- A statement of purpose of no more than two pages that outlines what research interests the student expects to pursue for the PhD.
- A writing sample of approximately 20 pages that demonstrates the student's ability to carry out original research and make cogent arguments.
- A CV or resume.
- As of fall 2021, neither the general GRE nor the subject test in English is a required component of a student's application.

Degree Requirements

- Students are responsible for taking 36 residency hours prior to the qualifying exam, including 24 regular course hours (graduate seminars at the 600 and 700 level). Students on TAs (which includes virtually all PhD students) will enroll in various teaching practicums in order to teach for the department. All pre-qualifying residency hours should be completed in the first two years of the program. For a sampling of recent and current graduate seminars, please see here: <https://english.as.uky.edu/english-graduate-courses>
- By the third semester of the program, students should have assembled a doctoral committee consisting of three faculty members in the English department and one outside member from a discipline adjacent or relevant to the student's proposed research program. At least three members of the committee must be tenured faculty.
- In year three, students take a qualifying examination that consists of two parts: a 2-hour oral examination in a major and minor field (in the fall) and a dissertation prospectus defense (in the spring). In the fall, qualifying students enroll in ENG 700, an examination preparation and

professionalization course. Once students have successfully completed the qualifying examination and prospectus defense, they move into the dissertation phase of the program.

- Students are expected to complete their dissertations in years 4 and 5. Once the dissertation is finished and the committee has decided the student is ready, the student will complete a dissertation defense. After a successful defense, the student will turn in the dissertation to the Graduate School and receive their doctoral degree.
- Students may take up to six credit-hours of courses at the graduate level outside of the English Department. They can also apply for a wide variety of graduate certificates, which typically require 9 to 15 hours of coursework. These certificates range from Gender and Women's Studies to Social Theory to Preparing Future Faculty. For a list of the available certificates, see here: <https://gradschool.uky.edu/graduate-certificates>
- For a fuller sense of what the English department doctoral program's requirements and expectations are, including sample timelines to degree, see here: <https://english.as.uky.edu/doctoral-program>

Entomology, PhD

The Department of Entomology has a rich legacy of vibrant scholarship and innovative education and outreach, coupled with strong commitment to graduate education. Individual graduate programs are planned by students in consultation with their advisory committees and the Director of Graduate Studies.

Entomology, like all agricultural and biological sciences disciplines, continues to evolve and integrate state of the art technology and new research perspectives with insect biology. Although departmental research is unified by a focus on insects and their arthropod relatives, many research groups creatively merge aspects of basic and applied biology. Graduate study and research opportunities are available in a diverse range of areas of entomology, including agricultural and urban entomology, biological control and integrated pest management, medical, veterinary, and public health entomology, pollinator biology and insect-plant relationships, forest entomology, and arachnology. Research covers many major fields of biology including behavior, biochemistry, ecology (including evolutionary, urban, landscape, and general ecology), genetics, neuroscience, molecular biology, physiology, toxicology, and systematics.

Graduate study and research opportunities are available in a diverse range of areas of entomology, including agricultural and urban entomology, biological control and integrated pest management, medical, veterinary, and public health entomology, pollinator biology and insect-plant relationships, forest entomology, and arachnology. Research covers many major fields of biology including behavior, biochemistry, ecology (including evolutionary, urban, landscape, and general ecology), genetics, neuroscience, molecular biology, physiology, toxicology, and systematics.

Admission Requirements

A Bachelor's degree with an undergraduate GPA of 3.0 and GPA of 3.25 in all graduate level work are required. Graduate Record Examination scores are not required. Applicants whose native language is not English must have a Test of English as a Foreign Language (TOEFL) with a minimum score of 79 on the TOEFL-iBT. A minimum overall band score of 6.5 on the International English Language Testing System (IELTS) may be used in lieu of a TOEFL score. The Program requires three letters of recommendation. Meeting the minimum requirements does not guarantee admission. These minimum requirements may be waived in exceptional cases if sufficient additional evidence is presented regarding the ability of the student

to do graduate work. Admission to the Graduate Program in Entomology does not automatically guarantee financial assistance to the student.

Degree Requirements

During their first year of graduate studies Ph.D. students complete a formal written research proposal encompassing a thorough literature review, clear statement of objectives, and materials and methods of the project. A research proposal seminar will be presented to the Department upon completion of the written research proposal. An exit seminar, usually presented during the last semester of the student's tenure, is required. In addition, the follow requirements must be completed:

- 36 credit hours prior to qualifying examination (Students who have completed a Masters degree can petition to waive 18 credit hours of pre-qualifying examination credits)
- STA 570 (Basic Statistical Analysis) or equivalent, or a different statistics course approved by the student's advisory committee
- Completion of courses in two of three Core Areas. Core Areas include diverse courses in 1) Insect Behavior, Ecology, Evolution and Systematics, 2) Insect Molecular Biology, Physiology and Genetics, and 3) Pest Management and Applied Ecology.
- Ph.D. candidates must take four semesters of Entomological Seminar (ENT 770), or seminars from other departments approved by the student's advisory committee
- Qualifying Examination
- Doctoral Dissertation

Epidemiology and Biostatistics, PhD

The PhD program in Epidemiology and Biostatistics is a joint degree program offered by the Departments of Epidemiology and Biostatistics in the College of Public Health. It is a dynamic doctoral program designed to prepare independent researchers for careers in population health data science. This is unique, interdisciplinary program, offers coursework and experiential training in the application of methodological theory and concepts to address the practical challenges of conducting population-based, clinical and translational research. Graduates of this program are prepared for positions in the multidisciplinary work environments of academia, government, and industry. This doctoral program includes opportunities to engage in research teams, and offers an innovative and collaborative approach to cross-disciplinary training and mentoring with the intent of providing students with diverse exposure to emerging trends in public health and biomedical data.

Coursework in the Epidemiology and Biostatistics PhD program emphasizes the acquisition of methodological skills foundational to both epidemiology and biostatistics. Graduates of this program are expected to demonstrate expertise in methodologic approaches, problem conceptualization, ethics, and core public health knowledge for advancing population-based, clinical and translational science. As such, following completion of required coursework and examinations, students will be required to prepare a doctoral dissertation. The dissertation will represent publishable, independent research with scientific contributions in epidemiology, biostatistics, biomedical science, or public health.

Admission Requirements

The minimum GRE and GPA admissions requirements for the PhD in Epidemiology and Biostatistics program are the same as for the Graduate School. However, the number of admissions is limited and admissions decisions are made on a competitive basis. All applicants must have successfully completed two semesters of calculus and must have a master's degree in epidemiology, biostatistics, or related field.

Degree Requirements

Students will complete a minimum of 38 credit hours of coursework, including 15 credit hours of required program core, a minimum of 15 credit hours of electives in Epidemiology or Biostatistics, and a course in public health foundations.

The core curriculum includes foundational coursework in epidemiology and biostatistics theory, methodology, and application:

- EPI 714 EPIDEMIOLOGIC STUDY DESIGN (3 credits)
- EPI 715 RESEARCH METHODS IN EPIDEMIOLOGY AND BIostatISTICS (3 credits)
- EPI 717 INTRODUCTION TO CAUSAL INFERENCE (3 credits)
- BST 682 GENERALIZED LINEAR MODELS (3 credits)
- BST 762 LONGITUDINAL DATA ANALYSIS (3 credits)

Students are required to successfully pass an examination that includes content from the core courses.

Electives in epidemiology and biostatistics should be selected to support doctoral research and to develop focused methodology and subject matter expertise. All electives must be approved by the DGS.

Upon successful completion of coursework and examinations, students are expected to form a doctoral advisory committee. Prior to initiating dissertation work and enrolling in residency (CPH 767, minimum requirement of 2 semesters), students will be required to pass an oral qualifying exam, scheduled by the Graduate School and administered by doctoral advisory committee. The qualifying exam will include written materials to support the oral exam, which is comprised of the dissertation proposal and preliminary doctoral research.

Program website: <https://cph.uky.edu/academic-programs/phd-epidemiology-and-biostatistics>

Exercise Science, PhD

The Ph.D. program offers areas of concentration in Biomechanics or Exercise Physiology. The goal of the program is to provide education to qualified students so that they will have a broad understanding of exercise science, as well as an in-depth knowledge of one specific area or discipline. Graduates of this program will be able to conduct exercise science and/or biomechanics research, teach at the university

level, direct discipline specific educational programs, and collaborate with other professionals on various issues related to exercise science/biomechanics. For more information on each concentration area, please visit the departmental website: <https://education.uky.edu/khp/grad/>

Objectives of the program:

- Provide a multidisciplinary doctoral program in exercise science with coordinated and expanded course offerings to meet the varied needs and interests of students wishing to pursue a research and/or academic career in the exercise science areas of exercise physiology, biomechanics, and motor control. • develop scientific expertise and knowledge of resources which will enable students to conduct independent research in their given area of expertise.
- Foster cooperative interdisciplinary research.
- Provide opportunities for critical interdisciplinary evaluation of current research trends.
- Participate in guided research projects of sufficiently complex scope and design to prepare students for conducting their own research.
- Prepare leaders to educate others in the area of exercise science

Admission Requirements

•CV

• Personal Statement: Submit a statement of your professional aspirations and explain how you believe graduate study at the University of Kentucky will enhance your ability to achieve those professional goals. In your statement, provide information about your background, research skills and experiences, personal and professional achievements, and educational, work or life experiences that influenced you and your life goals.

• Writing Sample: Students who have not written a Master's level thesis will be required to submit an example of their research writing. A literature review or project from a completed class are acceptable examples for submission for application. Special circumstances will be considered at the discretion of the applicant's designated potential advisor.

• A Master's degree or graduate level professional (e.g. M.D.) degree from a fully accredited institution of higher learning.

• The Graduate School of the University of Kentucky requires an overall grade point of 3.0 on all prior graduate work and a 2.75 from undergraduate work.

• For the Graduate School, the minimum acceptable TOEFL score is 550 (paper-based) 213 (computer-based), or 79 (internet-based). The minimum IELTS score is 6.5; Submitted scores must be no more than two years old.

• GRE: Not required.

• Four letters of recommendation are required. A minimum of 3 out of 4 of these letters must be submitted by someone with a terminal degree (i.e. Ph.D., M.D., Ed.D., etc.) and must be from a person with direct knowledge of the applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

Degree Requirements

A minimum of 36+ credit hours are required prior to sitting for the qualifying exam, followed by the completion of a dissertation. Determination of a student's particular course plan is made in consultation with the student and his or her approved advisory committee. The dissertation is guided and ultimately approved by the student's dissertation committee.

The Exercise Science Core includes 18+ hours and provides the student with a broad understanding of the various disciplines involved in this field. Each student is also required to take a minimum of 6 hours in research/statistic course work. Beyond this minimum, an advisor and committee in consultation with each student set the structure and content of the doctoral program. The number of formal courses within each area of specialization may vary. It is expected that the depth of knowledge in each area of study comes from independent study and research experiences, in addition to the dissertation, which are all under the direction of the faculty. Each student will demonstrate their depth of knowledge by their qualifying exams. Typically, it will take from 3-5 years for the student to complete the degree requirements including the dissertation.

Family Sciences, PhD

The doctoral program is a research-based curriculum that provides a strong foundation in theory, research methods, statistics, and teaching opportunities. It is designed particularly for those desiring a research career in family science, including positions at colleges and universities, program evaluation positions in public and private settings focusing on individuals and the family, and administrative positions in public and private human services prevention and intervention.

Areas of emphasis within the doctoral program are: (a) adolescent development, (b) aging, (c) family finance and economics, and (d) family processes.

Admission Requirements

Applicants must submit a statement of clearly developed academic and research goals for the Ph.D. degree, three letters of recommendation, transcripts of all graduate and undergraduate work with a minimum grade point average (GPA) of 3.0 out of 4.0, and Graduate Record Examination (GRE) scores. Master's level practitioners, educators, and researchers in the social sciences are best suited for the doctoral program. Previous research experience is desirable, but not required. Although students generally must have a master's degree prior to admission into the doctoral program, particularly outstanding applicants who have earned a bachelor's degree but not a master's degree may be considered for admission into the doctoral program. Admissions are conducted one time each year; the application deadline is January 15 for admission Fall Semester of the same calendar year. See <https://fam.ca.uky.edu/content/doctoral-program> for details.

Degree Requirements

Credit Requirements:

- Minimal coursework requirements prior to the qualifying examination include 2 years of residency and 36 credit hours, comprised of 20 credit hours of foundational courses (if not taken in master's program), 9 hours of research methods and theory, 9 credit hours of statistics, 8 credit hours of professional development, and 15 credit hours in a specialization area.

Course requirements:

- Research Methods(minimum 9 credit hours)
 - FAM 790 ADVANCED RESEARCH METHODS IN FAMILY SCIENCES (3)
 - One Qualitative Method(3)
 - One Quantitative Method(3)
- Statistics(minimum 9 credit hours)
 - FAM 777 APPLIED STATISTICS IN FAMILY SCIENCE (4)
 - Two Additional Statistics Courses(6)
- Professional Development(minimum 8 credit hours)
 - FAM 775-002: Professional Development Seminar II (1)
 - FAM 785 ADVANCED PROBLEMS IN FAMILY SCIENCES (teaching apprenticeship) (1)
 - FAM 786 TEACHING PRACTICUM IN FAMILY SCIENCES (supervised teaching) (3)
 - FAM 784 RESEARCH PRACTICUM IN FAMILY SCIENCES (qualifying exam) (3)
- Area of Specialization(minimum 15 credit hours)
 - Adolescent Development
 - Aging
 - Family Finance and Economics
 - Family Processes
- Foundational required unless approved from master's degree
 - FAM 601 FAMILY PROCESSES (3 credit hours)
 - FAM 652 READINGS IN FAMILY THEORY AND RESEARCH (3)
 - FAM 654 THE LIFE COURSE PERSPECTIVE ON FAMILIES AND INDIVIDUALS (3)
 - FAM 668 ALLOCATION OF FAMILY RESOURCES (3)
 - FAM 690 RESEARCH METHODS IN FAMILY SCIENCE (3)
 - FAM 775 SEMINAR IN HUMAN DEVELOPMENT AND FAMILY RELATIONS (1)
 - Basic Master's-level Statistics Course(3)

Program Websites

- For an overview of the Doctoral program in Family Sciences please visit: <https://fam.ca.uky.edu/content/doctoral-program>
- Doctoral Curriculum Requirements can be found on the following website: http://fam.ca.uky.edu/sites/fam.ca.uky.edu/files/d-curriculum-requirements_4-10-18.pdf

Forest and Natural Resource Sciences, PhD

The PhD in Forest and Natural Resource Sciences (FNRS) is offered by the Department of Forestry and Natural Resources. A goal of the Forest and Natural Resource Sciences Graduate Program is to contribute to improved forest health and management through enhanced understanding of relevant ecological and social benefits and constraints. Consequently, a student's degree program may be directed toward any of the disciplinary or interdisciplinary fields in Forest and Natural Resource Sciences, which range from

molecular to landscape and societal levels. The Program's current research has particular strengths in southern Appalachian hardwood forest ecology and management, forest hydrology and watershed management, reforestation and mine reclamation, invasive species and forest health, animal ecology and management, and human dimensions including forest policy and economics.

Admission Requirements

Applicants for admission to the PhD program in Forest and Natural Resource Sciences degree program must hold (by the time of enrollment in the program) an awarded four-year baccalaureate degree from an accredited institution of higher learning. Holding a MS degree is preferred, but not required. Students with undergraduate and MS degrees in forestry or another natural resource field, natural sciences (biology or chemistry) or social sciences may be admitted to the program as long as the student has secured an advisor to mentor them. Undergraduate and graduate students are expected to have an overall grade point average of 3.00 and a minimum combined verbal and quantitative score on the Graduate Record Examination (GRE) of 297.

More detailed information concerning the Forest and Natural Resource Sciences Graduate Program's admission procedures, assistantships, and degree requirements may be obtained at <http://forestry.ca.uky.edu/forestry-graduate-program>. Specific area(s) of interest of our individual faculty members can be found at: <http://forestry.ca.uky.edu/faculty>.

Degree Requirements

Total credit hours: 36

Core requirements include: All Forest and Natural Resource Sciences graduate students take: 1) FOR 601 RESEARCH METHODS IN FORESTRY, 3 credits; 2) FOR 602 RENEWABLE NATURAL RESOURCES IN A GLOBAL PERSPECTIVE, 3 credits; 3) FOR 603 FOUNDATIONS IN FORESTRY, WILDLIFE AND NATURAL RESOURCE SCIENCES, 3 credits and 4) FOR 770 FORESTRY SEMINAR (SUBTITLE REQUIRED), three times 3 credits total.

Students focus their remaining coursework (24 credits) requirements by taking 500, 600 or 700 levels courses through various departments at UK. For more details: <http://forestry.ca.uky.edu/phd-program>

Program Websites: <http://forestry.ca.uky.edu/forestry-graduate-program>

Gender and Women's Studies, PhD

The graduate program in Gender and Women's Studies at the University of Kentucky aims to train cutting-edge scholars in feminist, gender, and sexuality studies. We are deeply committed to the academic innovations in both women's studies, in which lived experiences of women worldwide are honored and used to expand traditional disciplinary knowledges, and gender studies, which examines how we ascribe gendered meanings to everyday objects, experiences, and relationships across space and time. Our curriculum is shaped by an intellectually and culturally diverse faculty whose areas of expertise complement each other in ways to ensure that students gain a variety of knowledge and skills. These include the areas of transnational perspectives, critical theory, affect theory, social justice frameworks, and interdisciplinary methodologies. Our faculty actively publish and teach across a broad range of topical area including studies

of violence, social movements and activism, the law, reproductive justice, education, disability, masculinities, migration, body, popular culture, sexualities, queer theory, science, and health.

The Ph.D. program is designed to familiarize students with (1) fundamental concepts, theories and frameworks for scholarly feminist inquiry, and (2) different approaches to inquiry and research in gender and women's studies. Students will learn to critically interpret and evaluate feminist theories, methods, and arguments; analyze relations of power marked by gender and other social distinctions and processes including age, class, colonialism, ethnicity, national origin, race, region, religion, and sexuality; and conduct and communicate advanced research in gender and women's studies.

Admission Requirements

- Applicants for the Ph.D. degree program may be accepted from any undergraduate degree field. Applicants will be accepted into the program with or without an M.A. or equivalent advanced degree. For students without an M.A., the degree will be earned as part of their Ph.D. program.
- Applicants should have a 3.0 or higher undergraduate GPA and, if relevant, a 3.2 or higher graduate GPA. In addition, students must submit a personal statement, resume or vitae (CV), writing sample, three letters of recommendation, and official undergraduate and graduate (if relevant) transcripts.

Degree Requirements

The Ph.D. program requires 36 credits of coursework plus a minimum of 4 dissertation residency credits.

Students must complete:

- A two course sequence on feminist theory: Feminist Theory (GWS 650) and History of Feminist Thought (GWS 640)
- Two courses in methods/skills training (GWS 630 and an additional GWS or approved course)
- Two GWS "area" pro-seminars (GWS 600, GWS 700), which include topical areas in gender, women's and sexuality studies
- Elective courses in GWS or other disciplines, determined in conjunction with the student's advisory committee

<https://gws.as.uky.edu/graduate-program-gws>

Geography, PhD

The PhD in Geography is designed to develop the theoretical, conceptual and methodological training necessary for students to make original contributions to geographic knowledge. The University of Kentucky's Department of Geography is known for high quality research and education in human geography, physical geography, and mapping. Program strengths include close faculty/student interaction, flexibility in designing an appropriate plan of study, and research training in seminar environments.

A variety of philosophical and methodological approaches are encouraged to prepare students for research-oriented careers in universities, government, and industry. Emphasis is placed on theoretical and methodological training and is closely integrated with both breadth and depth in substantive literatures. Student research also is empirically rich, with data regularly acquired through off-campus fieldwork.

Members of the faculty are committed to assisting students in disseminating their research through publications in professional journals and presentations at conferences, and in obtaining external funding. Graduate students also gain valuable experience as instructors in undergraduate courses. Rounding out graduate students' experiences is their active participation in departmental governance and service on departmental committees.

Faculty and student research in the Department focuses on interrelated thematic clusters in accordance with the current interests of graduate students and faculty. The clusters facilitate collaborative scholarship though they typically do not function as formal research teams. The clusters tend to work as loose and overlapping intellectual communities that can incorporate working groups, reading groups, and collaborative projects, and they give a sense of the breadth of the research conducted in the department. The research clusters we presently feature are: Black Geographies, Critical Financial Geographies, Critical Mapping and GIS, Digital Geographies, Environmental Geographies, Political Ecology, Political Geographies, Queer and Feminist Geographies, Social Theory and Urban Geographies. Descriptions of each cluster and their associated faculty are available at <https://geography.as.uky.edu/geography-research-clusters>

Admission Requirements

We accept applicants holding Master degrees in any field. In addition to UK Graduate school required materials, applicants should also provide

- A statement of goals and objectives in which you discuss your areas of scholarly interest, research directions you wish to pursue, and how your goals fit in with the Department of Geography.
- A current resume or curriculum vitae.
- Three letters of references from persons who can evaluate your potential for success in our graduate program.

More details are available at <https://geography.as.uky.edu/admissions>

Degree Requirements

- Students are required to take GEO 600 INTRODUCTION TO METHODS IN GEOGRAPHY
- Students are required to take GEO 702 CONCEPTS IN GEOGRAPHY
- Students are required to take GEO 705 ADVANCED GEOGRAPHIC METHODS (SUBTITLE REQUIRED)
- Students are required to take Three one-credit hour Professional Development Courses
 - GEO 741 TEACHING PRACTICUM
 - GEO 742 PREPARING FUTURE FACULTY IN GEOGRAPHY
 - GEO 743 RESEARCH PROPOSALS AND GRANT WRITING

- Students are required to prepare a dissertation research proposal and meet with their advisory committee prior to preparing for their qualifying exam.

Geological Sciences, PhD

The Department of Earth and Environmental Sciences offers graduate studies leading to the M.S. and Ph.D. degrees in Geology. Students with degrees in geology, any other natural science, or engineering are invited to apply.

Research within the Department of Earth and Environmental Sciences is funded by grants and contracts from NSF, DOE, PRF, and other federal, state, and industrial sources. Areas of graduate research are in fields covered by regular and adjunct faculty, including coal geology, hydrogeology, stratigraphy, petrology, geophysics, and tectonics.

Admission Requirements

Admission to pursue an M.S. or Ph.D. degree requires a bachelor's degree, a minimum grade point average of 2.75, three letters of reference and results from the verbal, quantitative, and analytical Graduate Record Examination (GRE). TOEFL scores are required for international applicants. For more details, please consult Admissions Information and Assistantships and Fellowships.

Admission criteria include GPA, GRE scores, prior course work, letters of reference, previous experience, and match with faculty research interests. This program requires an undergraduate GPA of at least 3.0 on all undergraduate and graduate work. For international applicants, we require that applicants rank in the top 25% of their graduating classes.

GRE must be taken, but there is no minimum score. Applicants who score at least 75th percentile on one category of the GRE and who have (a) an overall undergraduate GPA of 3.30, (b) a GPA of 3.60 for the last 60 credit hours of undergraduate work, or (c) a GPA of 3.80 for a completed master's degree (in each case from a US institution) are eligible for a Pirtle Fellowship, which provides \$3,000 in summer salary. Most applicants have a "standard" geology background, but strong students with backgrounds in the sciences and engineering are also admitted. Spoken English proficiency is important because many of our graduate students are employed as teaching assistants (in particular, as laboratory instructors). For international applicants, the Graduate School requires a minimum score of 550 on the TOEFL (213 on the computerized version; 79 on the internet-based version) or 6.5 on the IELTS. We typically only consider admission to the PhD program after completion of a master's degree either here at UK or at another US or European institution. Students who are deficient in one or more respects may be admitted provisionally or as non-degree students by action of the Graduate Committee. Your chances of admission are better if you've identified faculty members with whom you might work. We recommend you consult our faculty research specialties at <https://ees.as.uky.edu/faculty> and directly contact faculty in your areas of interest.

Degree Requirements

The Doctor of Philosophy in Geological Sciences requires candidates complete at least 36 hours of prequalifying graduate course work, including that taken for a master's degree (which counts for 18 hours) and at least 2 semesters of EES 767 following the qualifying exam. Ph.D. students must take 3

credits of EES 695 (Scientific Communication), unless they have already completed these requirements as a student in the M.S. program. The normal full-time load is 3 courses (usually 9-10 credits) each semester, and no more than 12 credits per semester should be taken. Individual Work in Geology (EES 782) and Research in Geological Sciences (EES 790) will include data collection (field, laboratory, and/or library) and must not duplicate dissertation research. A research plan must be approved by a faculty member, who will direct the research, as well as the DGS. The faculty member who directed the research will provide a final evaluation of the project. The evaluation will be conveyed to the DGS.

Gerontology, PhD

The PhD program in gerontology employs a curriculum designed to establish the knowledge base and especially the thinking/methodological skills necessary to successfully contribute to gerontology scholarship. The curriculum consists of 41 hours of course work plus directed studies and research within a program of study that involves six interlocking elements:

- a required core in gerontology
- specialized coursework in a substantive thematic research domain
- training in appropriate and supportive research methods
- grounding in public health concepts
- a qualifying examination
- a dissertation

Admission Requirements

The Ph.D. Program in Gerontology encourages applications from individuals having expressed interests in advanced theoretical and research-based studies of aging processes or aged individuals and populations. Complete applications that will be considered for admission to the Gerontology Program must include:

- Application Form and fee payment
- Official transcripts of all colleges and universities attended
- Official report of the Graduate Record Examination (GRE)
- (International Students) Official TOEFL report
- At least three (3) letters of reference
- Personal statement of interests, doctoral study plans, and career goals.

Students are encouraged to submit samples of scholarly writing, and are strongly encouraged to visit the program before admission decisions are made. All complete applications will be evaluated not only for evidence of strong academic accomplishment and high professional standards, but for evidence of a strong potential for success in advanced graduate studies and careers in gerontology-related fields.

Degree Requirements

The PhD program in gerontology employs a curriculum designed to establish the knowledge base and especially the thinking/methodological skills necessary to successfully contribute to gerontology scholarship.

Program Curriculum

The following curricular requirements are presented as a guide to your matriculation through the program. Depending on your previous coursework, there may be changes and alternatives suggested by your advisor.

<u>Required Courses</u>	<u>Elective Courses</u>
GRN 600 A STUDY OF THE OLDER PERSON (3)	Work with your advisor and DGS to identify appropriate electives.
GRN 620 HUMAN AGING AND ADJUSTMENT (3)	<i>Subtotal: Elective Hours (15)</i>
GRN 650 RESEARCH DESIGN IN GERONTOLOGY (4)	
GRN 656 INTEGRATIVE STUDIES IN GERONTOLOGY (3)	<u>Teacher Training (optional)</u>
CPH 603 INTRODUCTION TO DATA ANALYSIS FOR PUBLIC HEALTH (3)	GRN 616 TEACHING SEMINAR IN GERONTOLOGY (2)
Additional Methods Courses (6)	GRN 617 TEACHING PRACTICUM IN GERONTOLOGY (3)
CPH 605 EPIDEMIOLOGY (3)	<i>Subtotal: Teacher Training Hours (5) (optional)</i>
CPH 663 INTRODUCTION TO PUBLIC HEALTH PRACTICE AND ADMINISTRATION (1)	
<i>Subtotal: Core Hours (26)</i>	
	<u>Total Minimum Hours Required for Degree (41)</u>

Health Services Research, PhD

The PhD program in Health Services Research at the University of Kentucky College of Public Health prepares professionals for a career in conducting data-driven health services research. This unique program strongly emphasizes applied health services research skills, including study design, data management, statistics and other quantitative methods. Students may choose from one of two disciplinary concentrations: health economics or health outcomes.

Graduates will be prepared to address the practical challenges of conducting health services research in the multidisciplinary research environments of academia, government, consulting and industry. The mentored research program will prepare independent researchers skilled at designing and conducting health services research, leveraging a variety of study designs, primary data collection approaches, and primary and secondary databases to inform healthcare delivery and health policy.

Admission Requirements

- SOPHAS application (deadline June 1 for US applicants; April 1 for international applicants)
- Master's degree in a related field
- Prerequisite courses or their equivalent (Foundations of Public Health, Epidemiology, Biostatistics)
- Personal Statement
- The PhD HSR program is test optional for fall 2021 applicants. You may submit GRE or GMAT scores if you wish.
- Official TOEFL or IELTS score for international students
- Official transcripts from all previously attended institutions
- International transcripts (International Students ONLY - must be evaluated by WES)
- Three recommendations (contact information only) - at least one from a faculty member who taught or supervised applicant;
- CV/Resume

Students who are admitted to the PhD program will be required to complete a secondary UK Graduate School application at least one month before the start of classes to accept admission to the program.

Degree Requirements

Program Curriculum

Semester 1 (Fall Year 1): 12 credit hours

- HSR 700 HEALTH SERVICES RESEARCH AND THEORY (3 credit hours)
- CPH 712 ADVANCED EPIDEMIOLOGY (3 credit hours)
- Concentration Course (3 credit hours)
- Intermediate Statistics Course (3 credit hours)
- HSR 701 HEALTH SERVICES RESEARCH JOURNAL CLUB (0 credit hours)

Semester 2 (Spring Year 1): 12 credit hours

- CPH 635-201 Databases and SAS Programming (3 credit hours)
- EPI 714 EPIDEMIOLOGIC STUDY DESIGN (3 credit hours)
- Concentration Course (3 credit hours)
- Concentration Course (3 credit hours)
- HSR 701 HEALTH SERVICES RESEARCH JOURNAL CLUB (0 credit hours)

Semester 3 (Summer Year 1): 3 credit hours

- HSR 720 DIRECTED RESEARCH (3 credit hours)

Semester 4 (Fall Year 2): 12 credit hours

- HSR 705 HEALTH SERVICES RESEARCH METHODS (3 credit hours)
- Methods Course (3 credit hours)
- Concentration Course (3 credit hours)
- HSR 720 DIRECTED RESEARCH (3 credit hours)
- HSR 701 HEALTH SERVICES RESEARCH JOURNAL CLUB (0 credit hours)

Semester 5 (Spring Year 2): 11 credit hours

- Advanced Statistical Analysis Course (3 credit hours)
- Elective Course
- HSR 720 DIRECTED RESEARCH (3 credit hours)
- HSR 725 DEVELOPING PROPOSALS FOR HEALTH SERVICES RESEARCH (2 credit hours)
- HSR 701 HEALTH SERVICES RESEARCH JOURNAL CLUB (0 credit hours)

Semester 6 (Summer Year 2)

- Doctoral Candidate Examination
- Dissertation Proposal Defense

Semesters 7 (Fall Year 3): 2 credit hours

- CPH 767 DISSERTATION RESIDENCY CREDIT (2 credit hours)

Semester 8 (Spring Year 3): 2 credit hours

- CPH 767 DISSERTATION RESIDENCY CREDIT (2 credit hours)
- Dissertation Defense

Hispanic Studies, PhD

Admission Requirements

We require a B.A. in Hispanic Studies or a related area, demonstrated fluency in Spanish and English, strong letters of reference and a representative research essay from the candidate's prior academic work. Graduate Record Examination scores are required for admission. Foreign students must pass the TOEFL with the minimum required score of 550 on the paper version of the exam, 213 on the computer version, or 79 on the Internet/IBT version. Supervised teaching experience within the department is a requirement for both the M.A. and Doctoral degrees.

Degree Requirements

54 credit hours (18 courses) of which four courses are required: successful completion of SPA 553 TEACHING OF SPANISH, SPA 600 INTRODUCTION TO SPANISH LINGUISTICS, SPA 606 INTRODUCTION TO CRITICAL THEORY AND CULTURAL STUDIES and SPA 770 INTRODUCTION TO HISPANIC STUDIES. Of the remaining 15 courses, 5 must be in the major field of concentration (with two of these at the 700 level), 4 courses must be in the allied fields, and 2 in a minor field (outside the department). Additionally, the student must demonstrate reading knowledge of one language other than Spanish and English. The successful candidate will defend a dissertation prospectus, successfully complete Parts A and B of the Doctoral Qualifying Exam, and defend a dissertation.

Candidates are expected to devise a program of study and research around the major area of specialization. Two minor areas (in Hispanic literature and culture or Linguistics) and one allied field (related to the dissertation work) must be selected as support divisions for the major area. Minimum graduate credit expectations are 24 credit hours in the combined Major and Minor areas and 12 credit hours in the Allied Fields; 6 graduate credits in each of the two remaining areas not chosen as Major, Minor, or Allied Fields. Two seminars (one in the major field) are required.

Specialization by area:

- 1) Medieval Spanish Studies;
- 2) Renaissance and Early Modern Spanish Studies;
- 3) Eighteenth and Nineteenth Century Spanish Studies;
- 4) Twentieth and Twenty-First Century Spanish Studies;
- 5) Colonial and Nineteenth Century Spanish American Studies;
- 6) Twentieth and Twenty First Century Spanish American Studies.
- 7) U.S. Latino Studies

The dissertation focus may combine Hispanic literature and film, Hispanic literature and Fine Arts, Hispanic literature with a second literature, literature and popular culture, or literature and theory. Students are encouraged to explore topics in Transatlantic Studies, and to make use of the programs in Social Theory, Gender and Women's Studies, Latin American Studies, Environmental Studies and Appalachian Studies in considering transdisciplinary possibilities for their doctoral theses.

The Doctoral Qualifying Examination consists of two parts. Part A is a written exam and a two hour oral exam based on the reading list and the prospectus the student has created under the supervision of the dissertation committee. The written exam is structured as follows: a take-home exam in the areas of the dissertation and the extra-disciplinary Minor Field, and an additional ten hours to test the student's knowledge in his/her area of general specialization, and the additional three areas (Major and Allied Fields) on which the student has chosen to concentrate. In order to take this exam, the student needs to have submitted a written prospectus and a reading list to the dissertation committee at least two months before scheduling the exam.

Part B of the qualifying examination will take place during the semester following Part A. The student will present either a fully written introduction or a sample dissertation chapter to the dissertation committee. Acceptable Progress towards the Dissertation: The ABD student is required to establish and maintain an acceptable timeline for completing the dissertation. The Department expects that the student complete at least one dissertation chapter per semester until the dissertation is completed. It is hoped that the student will complete the dissertation within two years after the qualifying exams.

History, PhD

Students in the History PhD program pursue careers both as academic historians at colleges and universities and as researchers and scholars with libraries and archives, historical societies, and other public and private institutions. The department aims to train its students to be researchers, teachers, and engaged citizens, and the core of the graduate program is built around graduate research and readings seminars. Students must excel in these courses to be prepared to advance to the qualifying exam and the doctoral dissertation.

Admission Requirements

Students applying for the PhD program must have earned an MA degree in History at the University of Kentucky or at another doctoral institution. Applicants who wish to be considered for financial assistance and fellowships should review the department's web-site for specific deadlines. For additional information on application procedures and requirements, consult: <https://history.as.uky.edu/admission>

Degree Requirements

The doctoral program consists of two stages. One involves meeting specific requirements leading to the qualifying examinations, which include:

- HIS 606 (unless the student has taken it for the M.A. degree)
- HIS 750, a one-credit Professional Development Seminar
- Complete a minimum of eight 600- and 700-level reading seminars. (HIS 606 counts toward this requirement; HIS 750 does not; HIS 695 independent study courses do not unless approved by the DGS.) Students who have completed their M.A. degrees at UK may apply all 600- and 700-level seminars completed as an M.A. student toward this requirement.
- Two 700-level research seminars. Students who have completed two 700-level seminars while earning the M.A. at UK need take only one additional research seminar. Students who have written an M.A. thesis in History at another institution may petition to take only one 700-level research seminar
- Achieve a grade point average of 3.6 or higher in the 600- and 700-level seminars
- Meet specific field requirements. Students specializing in U.S. history must take HIS 640 and HIS 641, an additional readings seminar in the pre-1877 period, and an additional readings seminar in the post-1877 period; students specializing in pre-modern and early modern European history must take a minimum of one semester of HIS 705, the Pre-Modern European Colloquium (unless is not offered).
- Satisfy the foreign language requirement as outlined in the Graduate School Bulletin

A second set of requirements pertains to the post-qualifying examination stage of doctoral study. These requirements include:

- Prepare and defend a dissertation prospectus
- Enroll in HIS 767 for two credit hours each semester until finishing the dissertation

- Research, write, and defend a dissertation.

More information about the History PhD program and its requirements can be found at <https://history.as.uky.edu/history-graduate-program/history-graduate-handbook>

Instruction and Administration, EDD

The doctorate (Ed.D.) in Instruction & Administration prepares students to conduct research, teach, and/or assume leadership roles in the field of curriculum & instruction. Graduates of this program pursue a variety of career opportunities, including: becoming university faculty in Curriculum & Instruction departments; assuming advanced leadership positions in schools, districts, and state governments; or working for curriculum development companies or in private consulting, among others. Within the Instruction and Administration Ed.D. program, students may specialize in an educational content area within Curriculum & Instruction, or they may study Curriculum & Instruction more broadly. Due to diverse professional outcomes and optional strands of specialization, coursework is planned by the major professor and advisory committee based on the student's background, needs, and professional goals.

Areas of specialization include:

- Instructional Systems Design (ISD)
- Literacy Education
- Social Studies Education

Admission Requirements

Applicants are evaluated holistically, with attention paid to prior educational achievement and professional experience. In addition to the admission requirements set by the Graduate School, departmental requirements include a statement of professional goals, an autobiographical sketch, professional writing samples, and three letters of professional reference. Interviews are frequently requested. All materials may be submitted through The Graduate School's online application process.

Degree Requirements

A listing of curriculum requirements for the degree program providing detail such as the following:

- Minimum of 42 credit hours beyond the master's degree
- All program plans require coursework in the following areas:
 - Curriculum and Instruction
 - Support work inside and/or outside the College of Education
 - Research methodology courses (minimum of 9 semester hours required)

- Students must successfully complete a qualifying examination consisting of both written and oral components and also present a dissertation which is the result of original research. Additionally, doctoral students are encouraged to enhance their doctoral preparation through teaching, research, and other service opportunities that are available through the department and the college.
- Doctoral students in Instruction and Administration may elect to complete graduate certificates as part of their coursework. Graduate certificates in a) Distance Education and b) Teaching in Culturally & Linguistically Diverse Classrooms are offered within the department. Students are also eligible for graduate certificates housed elsewhere, such as the certificate in Research Methods in Education, offered through Educational Policy and Evaluation.

<https://education.uky.edu/edc/graduate/edd/>

Integrated Plant and Soil Sciences, PhD

The interdepartmental graduate program in Integrated Plant and Soil Sciences offers graduate work leading to the Doctor of Philosophy degree with specialization in Crop Science (including weed science and forages), Environmental Science and Ecosystem Ecology (including ecotoxicology, biogeochemistry, environmental chemistry, and ecosystem modeling), Horticultural Science, Plant Biology (including biochemistry, molecular biology, physiology, and seed biology), and Soil Science (biogeochemistry, chemistry, fertility, microbiology, pedology, physics, and rhizosphere science).

With their degree, students will acquire an extensive knowledge of the sciences and technology that support research, education, and technological innovation in plant, soil, and environmental sciences. They will be conversant with the literature, current concepts, and experimental and analytical methods that support research, teaching, and technological innovation in plant, soil, and environmental sciences, and in their application to agriculture and the environment. They will develop skills in critical and analytical thinking and in multiple forms of communication that may be applied to research, education, industry, government, and public service. They will have acquired those elements of professionalism necessary for rewarding and developing careers in plant, soil, and environmental sciences in research, education, production agriculture, agribusiness, government, and public service.

Graduate faculty belong to the Departments of Forestry and Natural Resources (<https://forestry.ca.uky.edu/>), Horticulture (<https://www.uky.edu/hort/>), and Plant and Soil Sciences (<https://pss.ca.uky.edu/>) in the College of Agriculture, Food, and Environment

Financial aid and the research interests of participating faculty can be found on the websites of the participating departments.

Admission Requirements

All students with strong training in science, including but not limited to baccalaureate degrees in agronomy, biology, chemistry, and horticulture are encouraged to apply. Admission to the IPSS Program is competitive and based on the applicant's undergraduate and graduate records, performance on standardized exams if submitted, and letters of recommendation.

Applicants must have an identified research advisor prior to admission to the program.

It is expected that applicants will meet the minimum standards established by the University of Kentucky Graduate School.

Applicants will automatically be considered for departmental research assistantships, which are awarded on a competitive basis.

So that all entering Ph.D. students are at an academic level to successfully complete course requirements, the following courses or their equivalent should have been completed prior to admission: 1. Chemistry - a first semester course in organic chemistry (equivalent to CHE 230); 2. Calculus - a first semester course (equivalent to MA 113); 3. Physics - a first semester course (equivalent to PHY 201).

For PhD students with a specialization in Soil Science, the following additional preparation is suggested: 1. Chemistry - Analytical Chemistry (equivalent to CHE 226) and Organic Chemistry (equivalent to CHE 230 or 236); 2. Introductory Soil Science with a lab (equivalent to PLS 366) and at least two additional soils courses; 3. Biology, two courses in basic biology (equivalent to BIO 151/152) and two additional courses in crop science, plant biology, or microbiology; 4. Statistics, including regression and experiment design (equivalent to STA 570, STA 671, and STA 672). Students are expected to make up deficiencies in these courses within one year of enrollment.

Degree Requirements

For the Ph.D. degree

- A minimum of 36 credit hours of graduate level work of which 18 hours of course work are in residence at the University of Kentucky
- Create a discipline-specific committee (consistent with Graduate School Requirements - 4 members for the PhD Program), and an individualized program of study within one year
- Satisfy basic Graduate School requirements for residency, examination, and good standing
- Have a minimum GPA of 3.0 at graduation
- Successfully complete an oral and written qualifying exam
- Successfully defend the dissertation, present an exit seminar, and submit an approved dissertation.

Required courses include IPS 610, IPS 625, PLS 772, and at least one graduate level statistics course. Additional coursework may be required by the student's dissertation committee. Details regarding the curriculum, program areas, and areas of specialization can be found in the student handbook.

Graduate students in IPSS have flexibility in designing course work to suit individual goals, but are expected to demonstrate competence in basic areas of plant and soil science and excellence in their chosen area of specialization as demonstrated by novel research leading to a published dissertation.

General information on electives and potential courses can be found at <https://ipss.ca.uky.edu/>

Incoming students are informed of the graduate-school and program-specific academic policies at an orientation held before classes begin each fall. A handbook is also on the IPSS website.

Kinesiology and Health Promotion, EDD

The Ed.D. program in Kinesiology and Health Promotion is a high-quality graduate program which aims to respond to the needs of individuals looking to advance their careers. The Ed.D. specialty areas serve professionals from various fields through interdisciplinary and practical experiences, particularly those who

desire advanced study to enhance professional knowledge and skills in educational, leadership, industrial, or other appropriate settings. Our program allows students to explore specific career options and engage in experiential learning within a small classroom environment which fosters personal and individual attention. Our goal is to enable all graduate students to become successful in their academic and professional career. The Department of Kinesiology and Health Promotion offers two different specializations (Health Promotion and Physical Education) to further interest in a specific area and/or career. Learn more about each specialization below.

Admission Requirements

- A master's degree or 30 semester hours of approved graduate course work with a 3.0 GPA.
- GRE: Not required
- CV
- Personal Statement: Statement of your professional aspirations and explain how you believe graduate study at the University of Kentucky will enhance your ability to achieve those professional goals. In your statement, provide information about your background, research skills and experiences, personal and professional achievements, and educational, work or life experiences that influenced you and your life goals.
- Writing Sample: Students who have not written a Master's level thesis will be required to submit an example of their research writing. A literature review or project from a completed class are acceptable examples for submission for application. Special circumstances will be considered at the discretion of the applicant's designated potential advisor.
- Four letters of recommendation: At least two must be from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

Degree Requirements

HEALTH PROMOTION SPECIALIZATION

The Ed.D. degree with a specialization in Health Promotion prepares students for a career in teaching/mentoring, consulting, policy development, or other leadership roles focused on individual and population health, evidence-based programming, and application of health behavior theory across diverse populations. With the skills and interdisciplinary knowledge students develop through coursework, independent research, community-engaged work, opportunities for teaching and/or professional service, as well as relationships with faculty mentors, they are prepared to lead in a variety of settings including universities, health promotion agencies at every level, healthcare systems and service organizations, and private industry.

The Ed.D. program utilizes a mentor-based admission process. Therefore, students are strongly encouraged to identify a faculty member with whom they wish to work prior to applying to the program.

[Degree Requirements](#)

Our Ed.D. degree with specialization in Health Promotion requires students to complete a minimum of 42 hours of course work. The doctoral degree requires students to complete a core of 9-12 hours of health promotion courses, 9 hours of research/statistics/design courses plus supporting electives for a total of at least 42 hours. Students, with the approval of their advisory committee, select elective course work that will enhance their health promotion knowledge and skills as well as their research skills. Additional information, including possible pre-requisites and electives, can be found on the departmental website: <https://education.uky.edu/khp/grad/>

PHYSICAL EDUCATION SPECIALIZATION

The Physical Education Ed.D. program has a required core of classes and sample of electives with an emphasis in specific areas such as physical education, physical activity promotion, epidemiology, sociology, behavioral science, and public health. The goal is to prepare students to teach courses on physical education methods, physical education curriculum, and physical activity promotion at the undergraduate and graduate level, remain up-to-date on the latest research, network with physical education teacher educators (PETE) from across the country and around the world, and exhibit professional work ethic and behaviors as a PETE student/faculty member.

Degree Requirements

The Ed.D. program has a required core of classes and sample of electives. The student may have an emphasis in specific areas of education. Additional information, including possible pre-requisites and electives, can be found on the departmental website: <https://education.uky.edu/khp/grad>

Materials Science and Engineering, PhD

The Department of Chemical and Materials Engineering offers programs leading to the M.S. and Ph.D. degrees in Materials Science and Engineering, with research specialization in the following areas:

- Ceramics
- Electronic Materials
- Metals and Alloys
- Micro-Materials
- Nanomaterials
- Polymers and Composites
- Surfaces and Interfaces
- Thin Film

Admission Requirements

Admission to the M.S. and Ph.D. degree programs is on a competitive basis, and financial assistance is available through teaching and research assistantships, as well as a limited number of fellowships.

Applicants should have a minimum grade point average of 3.0/4.0 on all undergraduate work. Persons with backgrounds in any physical science or engineering discipline are encouraged to apply, as each applicant's qualifications are reviewed individually. Minimum requirements for admission include a bachelor's degree and four semesters of university-level calculus, calculus-based physics, and chemistry. Please note that meeting the minimum requirements does not guarantee admission, as acceptance is on a competitive and space-available basis.

Degree Requirements

The Ph.D. program offers broad training in materials science and engineering while providing options to suit the student's particular interests and designated area of specialization. The student must conduct original and significant research and must submit and defend a dissertation based on that research. Doctoral students complete the materials science core, and work with their doctoral advisory committee to develop a program of elective courses designed to address deficiencies and to enhance the specialization area of interest. In addition, students must demonstrate proficiency in a minor area selected from the fields of mathematics, physical sciences, or engineering.

In order to advance to candidacy, doctoral students must pass an oral qualifying examination that tests the candidate's knowledge in three fundamental areas of Materials Science and Engineering: Structure of Materials, Mechanical Behavior of Materials, and Thermodynamics of Materials. There is no language requirement for the M.S. or Ph.D. degrees in Materials Science and Engineering.

Mathematics, PhD

The Mathematics PhD is a research degree granted on the basis of broad mathematical knowledge and exhibited creative ability. Course work leading to the doctorate is available in the areas of algebra, analysis, applied mathematics, discrete mathematics, numerical analysis, partial differential equations, and topology. In order to be admitted to candidacy for the PhD degree, a student must complete studies in a minor field (either inside or outside the department) and successfully complete three written preliminary examinations. Subsequent work becomes highly specialized through seminars and independent study. Finally, work on a dissertation is an original contribution to the candidate's major field.

Admission Requirements

The PhD program in Mathematics does not have formal admission requirements other than those of the Graduate School. Admission, however, is competitive. The admissions committee reviews transcripts, letters of recommendation, and the candidate's personal statement, seeking evidence of mastery in proof-based mathematics (such as analysis, topology, and modern algebra), the ability to craft mathematical proofs, and general mathematical maturity.

Degree Requirements

- Complete 36 credit hours.

- Pass three comprehensive examinations prior to advancing to the research stage of the program.
- Complete studies in a minor field (either inside or outside the department).

Mechanical Engineering, PhD

The Ph.D. degree is a research degree granted on the basis of broad knowledge of mechanical engineering and in-depth study in a specific area leading to a dissertation reflecting original work by the doctoral candidate.

Admission Requirements

Applicants seeking admission to the graduate program in the Department of Mechanical Engineering (ME) as regular students must have an awarded baccalaureate degree. Admission to the ME graduate programs normally requires a Bachelor's degree in engineering (not necessarily in Mechanical Engineering) and a grade point average (GPA) of 3.0/4.0 or 70% on all graduate and undergraduate work, as well as Graduate Record Examination (GRE) scores of at least 300 (new scoring system) for the combined Quantitative and Verbal sections (with at least 160 on the quantitative section) and 3.5 for the Analytical section. An undergraduate degree in Mathematics, Chemistry or Physics combined with a strong interest in engineering topics may be suitable preparation when certain required undergraduate courses are taken (see Appendix A for further details). Exceptions to these requirements may be made by the Director of Graduate Studies if other persuasive evidence of the student's potential for success is available.

Degree Requirements

Course Requirements:

Students without an MS Degree

- 36 credit hours required for a PhD degree. Residency and research courses (including ME 790) do not count toward the required credit hours.
- At least 6 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list, where at least 3 credit hours are from courses with prefixes MA or STA. See Appendix F for further information.
- At least 18 credit hours at the 600-level or greater (ME 790 is excluded, and only 3 credit hours of ME 780 may be included).
- At least 18 credit hours from courses with the prefix ME

Students with an MS Degree in Mechanical Engineering

- 18 credit hours required for a PhD degree. Residency and research courses (including ME 790) do not count toward the required credit hours.
- At least 3 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list. See Appendix F for further information.

- At least 9 credit hours at the 600-level or greater (ME 790 is excluded, and only 3 credit hours of ME 780 may be included).
- At least 9 credit hours from courses with the prefix ME

Students with an MS Degree in another discipline

- Up to 18 credit hours may be waived for the PhD degree course degree requirement upon the approval of student's advisor, DGS and graduate school. The student's PhD committee determines the course requirements with the approval of the DGS
- The total number of credit hours the student must take for a PhD will be 36 minus the number of credit hours waived by the department. Residency and research courses (including ME 790) do not count toward the required credit hours.
- Math requirement:
 - If at least 3 credit hours were waived for a student from an acceptable math course, the student must take at least an additional 3 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list.
 - If no math courses were waived for a student, the student must take at least 6 credit hours from courses with prefixes MA, STA, or from a pre-approved math course list, where at least 3 credit hours are from courses with prefixes MA or STA.
- At least 50% of the required credit hours must be at the 600-level or greater (ME 790 is excluded, and only 3 credit hours of ME 780 may be included).
- Independent work, taken as part of ME 780, cannot be included in the required coursework when the course material is related to the student's dissertation topic.
- At least 50% of the required credit hours must be from courses with the prefix ME.

Advisor & Advisory Committee

Each student's program is guided by a major professor and an advisory committee throughout the student's graduate career. Their functions are to provide continuity of direction and counsel and to instill intellectual stimulation throughout the entire doctoral program. **PhD students are required to select an advisor within the first semester (or earlier).** Students should also with the help of their advisor select their advisory committee during the second semester and no later than the completion of 18 credit hours of graduate work. The Advisory Committee provides advice to the student and sets specific program requirements (within applicable Department, Graduate School, and University regulations) which the student must satisfy. The Graduate School determines the regulations concerning the makeup of the advisory committee. The rules for the advisory committee are found in the Graduate School Bulletin.

Students are required to submit their advisory committee for DGS and Graduate School approval. This is required before any exams can be scheduled.

Residency & Post Residency Requirements

The Graduate School requires students fulfill residency requirement within the doctoral program in order to encourage students to experience contact with the academic community and the intellectual environment that characterizes a university. Students are required to complete the equivalent of two years of residency (36 credit hours) prior to the PhD Oral Qualifying examination and one year (2 semesters) of Post-qualifying residency. Please refer to the Graduate School Bulletin for Residency/Post Residency requirements. An awarded MS degree from the University of KY or another accredited school may satisfy 18 of this 36-hour pre-qualifying requirement. Such requests should be made by the Faculty advisor to the DGS and then to the Senior Associate Dean of the Graduate School.

Written Qualification Examination

PhD students are required to take and pass the PhD Written Qualification Examination which constitutes the written portion of the Qualifying Examination required by the Graduate School.

This written exam tests knowledge in specific required undergraduate topic areas, but exams will be sufficiently difficult to test mastery of these concepts.

Students have up to 2 seatings during which they must pass one written exam in mathematics and two additional exams in other topic areas. The two additional topic area exams must be selected from the seven listed in Appendix D. Seatings will occur twice a year: during the first full week in February (spring exams) and during the first full week after the Labor Day holiday (fall exams). Once a student passes an exam on a topic, they do not need to retake it. No student will be permitted to take exams in more than 2 seatings.

Failure to pass the math exam and two additional exams by the end of the student's second seating will result in the student's dismissal from the ME doctoral program. Failure to complete the Written Qualification Exam within the specified time limit as outlined in Appendix D will result in the student's dismissal from the ME doctoral program.

Exams and exam syllabi are prepared by the corresponding qualifying exam topic area committees; exams are graded by the same topic area committees. Detailed information on the written qualifying exam procedures can be found in Appendix D.

Oral Qualifying Examination

PhD students are required to take and pass the PhD Oral Qualifying Examination. This exam inspects the soundness of the students proposed doctoral dissertation research plan. A prospectus prepared by the student and submitted to the student's Advisory Committee is required at least two (2) weeks in advance of the exam. Only those who have passed the written qualifying exam and have satisfied all ME course requirements may sit for this exam. The Graduate School provides the regulations for this exam.

Publication Requirement

PhD students are expected to have submitted at least three (3) papers to archival journals, with at least one (1) having been accepted before sitting in their final examination.

Final Examination

This exam is the dissertation defense and is mandated by the Graduate School and all Graduate School regulations regarding this exam must be met. Graduate School regulations concerning the final exam are included in the Graduate School bulletin.

Students planning on taking the PhD final examination are required to notify the Graduate School a minimum of eight (8) weeks prior to the intended date.

During that eight-week period, the Graduate School will appoint an Outside Examiner from an outside department on campus. Following the appointment of the Outside Examiner, students may set the final exam date at least two weeks prior to the examination.

Students are expected to provide delivery of the complete dissertation to the student's advisor four (4) weeks prior, and to the committee a minimum of two weeks prior. The Graduate School will send announcements to of the examination to each advisory committee member and to the PhD candidate.

The final exam is open to the public and must take place while classes are in official session. They may not be scheduled between semesters or between the end of Summer Session II and the beginning of the Fall semester. Students may not sit for the final exam until all remaining "I" grades in credit bearing courses have been assigned letter grades. PhD students must be enrolled to sit for the exam.

The Graduate Student Coordinator, working with the DGS and the Graduate School, will provide the Final Exam card prior to the beginning of the Final Examination. If the examination card has not been received, the Committee Chair or DGS must call the Associate Dean of the Graduate School to determine whether the examination may proceed.

The Final Examination may not begin until all voting members of the Advisory Committee are present. The names of the voting members will be on the Final Examination card; names of non-voting members will not be on the card. All committee members must be present for the entire examination process. If a Committee member is in contact via electronic means, such as pre-approved telephone or interactive video (ITV) conference, and the connection is lost, the examination process must stop until the connection is reestablished.

The Final Examination may be cancelled at any time prior to its official start for substantive reasons with no permanent consequences for the student. The student has not failed the examination in this case because the exam had never begun. Substantive reasons for an exam cancellation can include a missing advisory committee member, a sudden difficulty in the candidate's personal life that may affect examination preparation and/or performance, or a late opinion on the part of the one or more committee members that the dissertation is not ready to defend. In such cases, the committee should discuss the issues at hand and reach a decision on whether to hold the examination. The candidate also has the right to cancel the Final Examination *prior* to its start. If the examination is cancelled, it must be formally rescheduled with the Graduate School with a minimum two-week interval.

The Final Examination must be completed once it has begun. The committee vote must be recorded on the Examination card, and scores entered on the score sheets, with the signatures of all voting members. There are only two possible outcomes: Pass or Fail, and these outcomes must be consistent with the score appearing on the score sheet for each voting member. The Examination may not be suspended to permit the candidate to correct deficiencies. The only suspensions that are permitted are short breaks to allow the candidate or committee to refresh themselves. No refreshments beyond bottled water will be permitted in the exam without pre-approval by the DGS.

Submission of the Dissertation

The final copy of the dissertation is prepared and submitted to the Graduate School after the Final Examination is passed and all committee requirements have been met. *Instructions for the Preparation of Theses and Dissertations* on the Graduate School website provides the requirements for dissertation preparation and submittal.

The dissertation must be received by the Graduate School within 60 days of the Final Examination. The candidate must be re-examined if this deadline is not met. The dissertation must be accepted by the Graduate School by the last class day of the semester in which the candidate will graduate. PhD candidates must fill out and submit an ETD form for their dissertation. Please follow the guidelines and find the form on the Graduate School's website.

Microbiology, PhD

The Ph. D. program in Microbiology is offered by the Department of Microbiology, Immunology and Molecular Genetics, within the College of Medicine (COM). Graduate students in MIMG can focus their studies in the core disciplines of pathogenic microbiology and immunology, but cross-discipline areas such as cancer immunology, immune response to infection, and the role of the microbiota in infection and immunobiology are also available.

The program is designed to prepare students for research careers in academics, industry, and government, as well as teaching careers in colleges and universities. The program has at its heart a close student-mentor relationship that allows for the maximum flexibility in the development of independent and creative scientists and teachers.

Admission Requirements

Students are admitted through the College of Medicine Integrated Biomedical Sciences (IBS) program. The IBS program is an umbrella program that handles admissions and organizes first year course work for students in the COM basic sciences departments, which includes MIMG. Students wishing to join MIMG should apply directly to the IBS program. The IBS program requires that prospective students have a Bachelor's degree from a four-year accredited institution, with appropriate course work in biology, chemistry, physics and math.

Students in the IBS program complete coursework that provides a foundation for doctoral studies in any of the COM basic science departments. In addition to coursework, IBS students do research rotations with any faculty in participating departments. Students completing the IBS year with a minimum GPA of 3.0, and a minimum grade of B in all IBS coursework are welcome to join MIMG.

Degree Requirements

MIMG requires all Ph.D. students to take two of three core courses:

- MI 615 MOLECULAR BIOLOGY
- MI 685 IMMUNOBIOLOGY, INFECTION, AND INFLAMMATION
- MI 720 MICROBIAL STRUCTURE AND FUNCTION

MIMG students are also required to take:

- MI 772 SEMINAR IN MICROBIOLOGY
- MI 710 SPECIAL TOPICS IN MICROBIOLOGY (Grant Writing)
- Students must also take one elective, which may include one of the core courses, or any other of a wide variety of other options. Some of the most commonly chosen electives are:
 - MI 725 MECHANISMS OF MICROBIAL PATHOGENESIS
 - MI 707 CONTEMPORARY TOPICS IN IMMUNOLOGY
 - BIO 520 BIOINFORMATICS
 - PGY 617 PHYSIOLOGICAL GENOMICS
 - BCH 611 BIOCHEMISTRY AND CELL BIOLOGY OF NUCLEIC ACIDS
 - BCH 612 STRUCTURE AND FUNCTION OF PROTEINS AND ENZYMES

Students are required to take 36 credit hours before taking the Qualifying Exam.

Students are also required to take at least two semesters of MI 767 (Dissertation Residency Credit) for research credit following the qualifying exam. MI 767 must be taken each Fall and Spring semester until the dissertation is defended.

<https://microbiology.med.uky.edu/>

Mining Engineering, PhD

The programs leading to the degrees of Master of Science in Mining Engineering, Master of Mining Engineering and Doctor of Philosophy are offered through the Department of Mining Engineering. The objectives of these programs are to provide an advanced level of applied science for use in the mining industry and to offer specified topics for research specialization.

The Master of Science in Mining Engineering is a research-oriented degree appropriate for a career in problem solving, research, or technology development.

For the Master of Science in Mining Engineering, 24 credit hours of course work plus an acceptable thesis (Plan A) or 30 credits of course work and a report on one or more research topics (Plan B) are required to fulfill program requirements. Plan B Master of Science degrees will be reserved normally for students who have already demonstrated their ability to conduct and report on independent research.

The Doctor of Philosophy is the terminal degree in the subject and is normally required for a career in teaching and research

Admission Requirements

Enrollment in the Master of Science degree program is open to qualified applicants with an undergraduate degree in mining engineering or other engineering and science fields. A minimum cumulative grade point average of 2.8/4.0 from an accredited undergraduate program is required. Persons with undergraduate degrees in fields other than mining engineering are required to satisfy deficiencies in undergraduate mining engineering courses.

Applicants for admission must have a combined score on the verbal and quantitative portions of the Graduate Record Examination (GRE) in excess of 300. Scores on the analytical portion are also considered. Foreign applicants whose native language is other than English must take the Test of English as a Foreign Language (TOEFL) and achieve a score of at least 80 (internet based test) or 230 (computer based test) or (550 paper based test) is required before they can be admitted. Alternatively candidates should take the International English Language Testing System (IELTS) test and achieve a score of at least 6.5.

In addition to satisfying general Graduate School and College of Engineering admissions requirements, applicants for admission to the Master of Science and Ph.D. degree programs in Mining Engineering must have been awarded the Bachelor of Science degree prior to admission to the graduate degree status. Normally, it is expected that applicants will have graduated from an engineering program accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). For applicants from non-U.S. universities, from related but non-engineering disciplines, and from institutions that do not have accredited engineering programs, an assessment will be made of the comparability of educational background to that prescribed and appropriate remedial course work established as a provision for admission.

Degree Requirements

The Ph.D. degree has no formal course requirements. Students need to complete a minimum of 36 credits of graduate level courses, of which two semesters must be full-time, while preparing for the written and oral qualifying examinations. Students who hold a Master of Science degree are typically given credit for up to 18 credit hours of the 36 hour requirement. Current research areas include the following: rock mechanics and ground control, operations research, mine ventilation, underground construction, surface mining and reclamation, explosive and blasting, mine environmental engineering, mine power systems, mineral and coal processing, extractive metallurgy, data management and mineral economics. In addition to the graduate courses in mining engineering, graduate courses in civil engineering and other disciplines may be used to satisfy degree requirements providing they are appropriate to the student's program of study. Additional information about the graduate program in mining engineering can be obtained by writing the Director of Graduate Studies, Department of Mining Engineering.

Music, PhD

The School of Music offers the Doctor of Philosophy (Ph.D.) with specialty areas in musicology, music education, or theory.

The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The School of Music offers courses and research opportunities leading to the Ph.D. Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Applicants must submit a master's thesis or a research paper of sufficient scope and quality to demonstrate competence in research and clarity of expression. For students in the Ph.D. program, entrance exams are a required component of the application process to assess competency in music history and music theory.

Degree Requirements

The basic core requirements beyond the master's degree are as follows:

- Research Methods: MUS 618 (if not taken at the master's level) (3)
- Music History and Literature beyond the master's (9)
- Advanced Music Theory beyond the master's* (6)
- Three seminars (minimum) beyond the master's (9)

Total (27)

(24 hours if competency in Research Methods is accepted by the Musicology faculty.)

*MUS 578 cannot be used to fulfill this requirement.

There is no specific requirement in a minor area, but such work may be required by a student's Advisory Committee if it is essential to the major research or field of concentration.

Satisfaction of language requirements will conform to The Graduate School policy; however, specific languages required will vary with individual options. The foreign language requirement(s), if applicable, must be met by the end of the first full year of study in the Ph.D. program. The student's Advisory Committee must be formed and appointed by the Dean of the Graduate School prior to advance registration for the student's third semester. The dissertation topic and prospectus must be approved by the Advisory Committee; the dissertation itself must be the result of original research which adds to or modifies what has previously been known on the subject. Qualifying examinations should be taken no later than one semester after the completion of course work. A student is admitted to candidacy for the Ph.D. degree only after meeting the language requirement(s) and passing the qualifying examinations.

The Ph.D. in music may be pursued in one of three areas: music education, music theory, or musicology. The program outline for each area beyond the core requirements is given below; the student's Advisory Committee advises on and plans the actual program of study.

Music Education

- Music in Higher Education (MUS 762)
- Psychology of Music (MUS 770)
- At least one graduate level course in statistics

Knowledge of acoustics (PHY 140 or equivalent); Knowledge of specialized research in music education (MUS 600 or equivalent). These requirements must be met by the end of the first year of doctoral study. A foreign language is not required but student must show competency in computer use and statistical understanding for research purposes.

Additional courses in music education or adjunct subjects as recommended by the Advisory Committee.

Music Theory

- Pedagogy of Theory (MUS 674)
- Advanced Analytical Techniques (MUS 676)
- History of Music Theory (MUS 678)

Additional courses in music theory or adjunct subjects as recommended by the Advisory Committee.

A reading knowledge of French, German, or a language appropriate to the research interest.

Musicology

- Medieval and Renaissance Notation (MUS 700)
- Proseminar in Musicological Methods (MUS 703)

Additional courses in musicology or adjunct subjects as recommended by the Advisory Committee.

A reading knowledge of at least two foreign languages, normally German and either French or Italian.

Combined M.A./Ph.D. Program in Musicology & Ethnomusicology

The First Two Years

The first two years of study provide training in the practice and methodology of musicology and ethnomusicology. A minimum of 30 hours of graduate credit is required during the first two years of graduate study.

Second-Year Review; Examinations and Research Paper

During the second year of graduate study the student will be expected to:

- Take an examination designed to test the student's knowledge of European and American music and of music theory. This will include a four-hour written examination in general music history, and a four-hour written examination in music theory.
- Write a paper on a topic of the student's choice, and with approval of the student's advisor. This third-term paper should explain and review a selected topic in musicology or ethnomusicology, survey and evaluate the available literature on the topic, and identify lines of inquiry which remain to be pursued. The recommended length for this paper is 25-30 pages of prose, in addition to the bibliography, with appendices and musical examples as needed. Three copies of the paper are to be submitted to the Division of Musicology, which may require revisions before final acceptance.

The departmental evaluation of all students in the second year is based on course work completed to date, the paper, the results of the preliminary exam, and the student's prospects for continued success in the field. The department's judgment is a collective one. If the evaluation is favorable, the student may continue in the Ph.D. program. A student who fails the common exams may receive a terminal M.A. through the following steps: a) completing 36 hours of course work, b) submitting an acceptable 2nd-year paper, in lieu of thesis, and c) establishing a Masters' committee and passing an oral exam.

A student who successfully completes the 2nd-year review, which includes the common exams and the 2nd-year paper, but fails the special area Qualifying Examination, is eligible to receive a terminal M.A. without further academic work, as long as performance on the oral portion of the qualifying exam is considered to have been satisfactory as an M.A. final examination. The advisor and two other members of the doctoral committee will be named as the M.A. committee to complete the necessary paperwork."

"A student who passes the qualifying exams but does not successfully complete the dissertation and/or defense will be eligible to receive the M.A. without further work of any kind, except for applying for the degree. The advisor and two other members of the doctoral committee will be named as the M.A. committee to complete the necessary paperwork, certifying the 2nd-year paper in lieu of the thesis and the doctoral qualifying examination in lieu of the M.A. final exam.

Students entering the program with M.A. degrees in Musicology from the University of Kentucky or other institutions may make a written petition to the departmental faculty to participate in the Second- Year Review during their first year of residency. Note: In order for the petition to be considered, the student must have been admitted without the requirement of any remedial work, and must have taken an appropriate research method class as part of the master's program.

The Third Year

During the third year of study, the student will take additional courses in musicology, ethnomusicology, theory, and any appropriate cognate areas within or outside the music program; a limited number of these courses may be independent study in the area of specialization.

The student will take the qualifying examinations, which will consist of a special field examination in musicology or ethnomusicology, the general sense and limits of which have been discussed in advance with

the prospective dissertation advisor and the student's advisory committee. If necessary, the committee may also retest areas in which the second-year exams demonstrated deficiencies.

The Dissertation

As soon as possible after the successful completion of Qualifying Examinations, the student should submit a dissertation proposal to his/her Advisory Committee. The student will defend this proposal at a meeting of the committee, and is expected to submit any required revisions within two months. The dissertation itself will meet all the requirements of the University of Kentucky Graduate School, and will be defended following the usual Final Examination procedures.

Course Requirements

MUS 618 RESEARCH METHODS (3)

MUS 703 PROSEMINAR IN MUSICOLOGICAL METHODS (3)

MUS 700 MEDIEVAL AND RENAISSANCE NOTATION (3)

MUS 702 SEMINAR IN MUSICOLOGY (variable topics) (12-18)

MUS 710 INTRODUCTION TO ETHNOMUSICOLOGY (3)

MUS 711 SEMINAR IN ETHNOMUSICOLOGY (variable topics) (3-6)

Advanced Music Theory (not including MUS 578) (9)

Directed electives (including independent study) (9-18)

Total 54

Note: Students entering the program with a Master's degree, whose petition to enter in the second year has been approved, will be required to take 36 hours, with specific courses to be determined by the Advisory Committee based on the evaluation of coursework taken in the previous degree.

Foreign Language

All students in the combined M.A./Ph.D. program must demonstrate reading knowledge of two foreign languages. One of these is usually French or German, but they may also be other languages appropriate to the students' research interests. The Graduate School offers reading knowledge courses in French, German, and Spanish.

Advising

Students in the M.A./Ph.D. program will work initially with an individual advisor, and then with an Advisory Committee. For further details on the program see the program webpage: <https://finearts.uky.edu/music/musicology-ethnomusicology>

Musical Arts, DMA

The School of Music offers the Doctor of Musical Arts (D.M.A.) with specialty areas in performance (including choral or instrumental conducting) or composition. The URL for the School of Music Home Page is <http://finearts.uky.edu/music>.

Admission Requirements

The applicant for the D.M.A. degree is expected to have earned appropriate undergraduate and master's degrees and successfully audition for the faculty.

Entrance Requirements

Applicants must meet the entrance requirements of The Graduate School as well as those of the School of Music. Applicants for performance degrees must audition. Some areas require a pre-recorded preliminary audition as part of the screening process. Live auditions should be scheduled by contacting the faculty member in charge of the student's performing area or filling out an audition request form on the School of Music web page.

Entrance exams in Music History and Music Theory (written and aural) are given the week before classes begin in the Fall semester to determine whether review classes are necessary in the first semester of study. Admission for all degrees is conditional upon either passing the entrance exams or passing any required review classes with a grade of A or B before accumulating 12 credit hours

Degree Requirements

The Doctor of Musical Arts program offers opportunity for full development as a performer, composer, or teacher of music performance or composition. A thorough background is a prerequisite for admission into the program; doctoral study emphasizes work in adjunct areas of music, related fields, and research as they enhance and support the major area.

Language requirement differs among performance areas. If required and if deficient, a student must enroll in language courses each semester of study until the deficiency is removed. Language classes must be passed with a grade of B or higher.

The student's Advisory Committee must be formed and appointed by the Dean of the Graduate School prior to advance registration for the student's third semester.

Recital requirement differs among performance areas. At least three weeks prior to each recital, the student must do a pre-recital hearing for three members of the applied faculty who must sign and submit a Pre-Recital Hearing Form to be placed in the student's file. The program content of the recitals will be established in cooperation with the student's Advisory Committee. Immediately after each successful recital, a Recital Approval form must be signed by three members of the Advisory Committee and placed in the student's file. The student should complete at least one recital prior to taking the Qualifying Exam.

DMA students are required to pass a Qualifying Exam (QE) upon completion of all coursework. Part I of the QE (History and Theory, 3 hours each) will be given as a common exam early every semester. Students should pass Part I prior to taking Part II of the QE which is the Specialty Area portion (six hours) of the QE. Part III of the QE is the oral exam (2 hours maximum) and should be taken last, after completing Parts I and II successfully.

Requirements for doctoral projects differ among the performance areas. The Project for the D.M.A. specializing in Composition will consist of two parts. Part 1 is a large-scale original composition. The candidate is responsible for arranging a public performance of the work. Part 2 is an in-depth analysis and discussion of the composition. The composition and in-depth written analysis and discussion are to be approved by the Advisory Committee in the same manner as a Ph.D. dissertation. For specific requirements in each performance area, please consult the Graduate Music Handbook posted at https://finearts.uky.edu/sites/default/files/Uploads/Documents/graduate_handbook_2020.pdf

The minimum course requirements for all DMA students beyond the master's degree are as follows:

- MUS 618 RESEARCH METHODS* (3)
- Music History and Literature# (9)
- Advanced Music Theory** (6)
- Performance Major (12)
- Minor (optional)*** (9)

Total (30-39)

#Must include two regular courses offered by the Division of Musicology (one 700-level course recommended) and those required by the specific performance major area. One course may be from the Division of Musicology, Theory, Music Education, or Performance.

For students in D.M.A. degrees, entrance exams will be scheduled the week before the first semester of classes to assess competency in music history and music theory. Students who have not passed the entrance exams in music history and/or music theory will be required to take review classes in those areas during the first 12 hours of study.

Doctor of Musical Arts (Voice Performance)

- MUS 618 RESEARCH METHODS* (3)
- Music History and Literature (must include MUS 623 or MUS 627*) (6)
- Advanced Music Theory** (6)
- Voice Performance (12)
- Performance Related Study (must include MUS 665*, MUS 667*, and MUS 620*) (9-15)
- Directed Research in Vocal Literature (MUS 780) (6)
- Minor (Optional)*** (9)

Total (33-51)

LANGUAGE REQUIREMENT: 1 year of French, 1 year of Italian, 1 year of German; In addition, one semester of a Reading for Knowledge course is required, this can also substitute for an entire year of a language requirement if passed). The second semester of all languages must have a grade of B or above to be accepted.

Doctor of Musical Arts (Choral Conducting)

- MUS 618 RESEARCH METHODS* (3)
- Music History and Literature (must include MUS 625) (9)
- Advanced Music Theory** (6)
- Advanced Choral Methods (MUS 660) (3)

- Performance Major**** (12)
- Minor (Optional)*** (9)

Total (33-42)

Doctoral of Musical Arts (Instrumental Conducting)

- MUS 618 RESEARCH METHODS* (3)
- Music History and Literature (must include MUS 622 or MUS 680) (9)
- Advanced Music Theory** (6)
- Advanced Rehearsal Techniques (MUS 681) (3)
- Performance Major (6 hours of MUP 658 and 6 hours of MUP 758) (12)
- Minor (Optional)*** (9)

Total (33-42)

*If not completed at the master's level.

**MUS 578 cannot be used to fulfill this requirement.

***The minor may be taken within or outside the School of Music, and is subject to the approval of the Advisory Committee and the chairman of the department concerned.

****Must include a minimum of 4 credits of MUP 758

Neuroscience, PhD

The Department of Neuroscience offers a graduate program leading to the Doctor of Philosophy degree in Neuroscience. Graduate study in neuroscience is designed to prepare candidates for research careers in academics, industry, and government laboratories. Students will have the opportunity to join faculty research programs across a spectrum of topics including: cellular and molecular neurobiology, neurodegenerative diseases and aging, brain and spinal cord injury, neuroendocrinology, and behavioral, cognitive and integrated neuroscience. The program of study is tailored to the individual background and career goals of the student and stresses an interdepartmental approach both in the selection of courses and in the pursuit of research. Students are expected to participate in graduate seminars, journal clubs, research seminars, to interact with visiting scholars, publish and to present the results of their research at local and national meetings. Financial aid is available to students accepted into the program. Optional graduate certificates in Anatomical Sciences or Neuroscience Instruction are also available.

Admission Requirements

- Admission to the Ph.D. program in Neuroscience is through completion of the Integrated Biomedical Sciences (IBS) graduate curriculum with a GPA of 3.0 or greater. Inquiries regarding admission to the IBS program should be directed to the Director of Graduate Studies, Integrated Biomedical Sciences Curriculum, University of Kentucky College of Medicine at <http://www.mc.uky.edu/ibs/>.
- For additional information about the Ph.D. program in Neuroscience, contact the Director of Graduate Studies, Department of Neuroscience. Information may also be obtained from the department website at <https://neuroscience.med.uky.edu/>.

Degree Requirements

Requirements to be added.

Nursing, PhD

The goal of the PhD Program, which is ranked among the top eight programs in the U.S. by the National Research Council, is to prepare students to conduct clinical research that generates new knowledge applicable to nursing practice. A foundation of research and scholarship gained at the baccalaureate or master's level is further enhanced at the doctoral level. Our students are prepared to assume roles in a variety of settings, from private industry to community colleges to top research-intensive nursing schools affiliated with major academic health centers.

Interdisciplinary research opportunities are emphasized. Invaluable mentoring by faculty members and collegial interactions among doctoral students support the development of nurse researchers.

Doctoral students have the opportunity to participate in faculty members' research programs, such as psychosocial and biobehavioral interventions for prevention and treatment of cardiovascular and pulmonary diseases, management of critically ill patients, promoting self-management of chronic illnesses, domestic and workplace violence, tobacco policy and smoking cessation, occupational health and safety, health disparities, health risks in pregnant women, pediatric asthma and more.

The faculty is well-qualified in both research and clinical practice. Faculty and students alike are very successful in obtaining extramural funding for their scholarly activities. With research as a central component of the College's mission, College faculty and students boast more than \$20 million in its research portfolio as they produce groundbreaking knowledge in cardiovascular disease, tobacco control policy, diabetes, cancer, agricultural health, health disparities, maternal-child health, chronic pain, acute injuries and mental health. [Click here for more information on the College's research initiatives.](#)

Graduates of the program will be able to:

- Establish a pattern of productive scholarship and participation in team science that results in the dissemination of scholarly work to lay and professional audiences
- Contribute to the development of science and the discipline of nursing through the ethical conduct of culturally competent, original clinical and translational research
- Demonstrate an understanding of the evolving roles and professional responsibilities of a nurse scholar through participation in professional and interprofessional teams and organizations and the provision of professional and research leadership and mentorship
- Use different science perspectives and an in-depth knowledge of a substantive area to develop and apply a conceptual knowledge base that enhances the link among theoretical advances, research, and practice to improve health outcomes

The PhD program was initiated in 1987 and was the first in the state of Kentucky.

There are two entry points to the PhD Program:

Post-BSN Option: for those who wish to build on their BSN degree to become active nurse researchers and contribute to the development of science that improves health outcomes. This option also includes those with an earned master's degree who desire to develop research skills that contribute to science, scholarship and improved health outcomes.

Post-DNP Option: Curriculum plans are customized for each individual based on a faculty review of completed DNP coursework as comparable to courses in the PhD Program.

All entry options also have part-time plans. Deadline for fall admission is Feb. 15. Admission decisions are made on a competitive basis. Applications received after Feb. 15 will be considered on a space-available basis.

Admission Requirements

Applicants to the PhD Program should meet the following minimum requirements:

- Undergraduate grade point average of 3.3 on a 4.0 grading scale
- A bachelor's degree in nursing from an CNEA or CCNE accredited program
- Current, active, and unrestricted RN license in Kentucky or in each US state where research will take place.
- Graduate Records Exam (GRE) is optional but highly recommended; GRE scores are used for competitive funding opportunities, particularly those from the UK Graduate School
- Three references attesting to the potential of the student for a scholarly career; at least one should be from a doctorally prepared nurse
- Example of scholarly written work that demonstrates excellent writing skills and the ability to communicate clearly and logically; examples could include a publication or class paper
- Goal statement that addresses short- and long-term academic, research and career goals; a self-evaluation of motivation, initiative and the potential for independent learning with specific examples of each; and examples of leadership experiences where initiative and self-motivation were important to success
- Two faculty interviews arranged as part of the admission process
- Admission to the University of Kentucky Graduate School

Application Deadlines

- Fall semester admission: Feb. 15
- Spring semester admission: Oct. 15

Applications for the Doctor of Philosophy in Nursing received after the above deadlines will be considered only on a space available basis. International applicants must adhere to published graduate school deadlines.

Degree Requirements

PhD candidates must complete the following:

- Minimum of 48 credit hours of pre-qualifying course work
- Enrollment in at least five credit hours of course work per semester
- Prequalifying residency requirement: Students must complete the minimum 48 credit hours of course work within five years of entry into the doctoral program.
- Two consecutive full-time terms for the NUR 767 dissertation research residency
- Written and oral examinations to qualify as a candidate for the PhD degree
- Dissertation and final examination

Prequalifying course work	Course\ Title	Credits
Core statistics	STA 570 BASIC STATISTICAL ANALYSIS	3
	STA 674 REGRESSION ANALYSIS AND DESIGN OF EXPERIMENTS	3
Core nursing courses	NUR 770 PHILOSOPHICAL FOUNDATIONS OF NURSING SCIENCE	2
	NUR 763 FOUNDATIONS OF SCIENCE AND KNOWLEDGE DEVELOPMENT IN NURSING	2
	NUR 764 SYSTEMATIC REVIEWS OF THE LITERATURE	3
	NUR 779 DOCTORAL SEMINAR: (SUBTITLE REQUIRED) -- Becoming a Scientist	1
	NUR 765 RESEARCH DESIGN AND METHODS: QUALITATIVE, QUANTITATIVE AND MIXED METHODS RESEARCH (Pre req.: statistics 1 and NUR 790)	4
	NUR 778 PROSEMINAR IN CONTEMPORARY HEALTH AND NURSING POLICY ISSUES	3
	NUR 766 RESPONSIBLE CONDUCT OF RESEARCH	1
	NUR 793 MEASUREMENT OF NURSING PHENOMENA (Pre req.: NUR 763, 770 & 765)	3

	NUR 773 RESEARCH PROPOSAL DEVELOPMENT (Pre req.: NUR763, NUR764, NUR765)	3
	NUR 779 DOCTORAL SEMINAR: (SUBTITLE REQUIRED) --Roles for the Nurse Scientist	1
	NUR 772 DISSEMINATION OF SCHOLARSHIP AND SCIENTIFIC FINDINGS	3
	NUR 794 ANALYSIS, INTERPRETATION, AND PRESENTATION OF QUANTITATIVE DATA (Pre req.: STA 674)	3
	NUR 779 DOCTORAL SEMINAR: (SUBTITLE REQUIRED) --Career Planning	1
Cognates	Students are required to complete 9 credit hours of cognate courses in a related discipline.	9
Post Qualifying course work	NUR 767 DISSERTATION RESIDENCY CREDIT A minimum of two consecutive full-time terms for the dissertation research residency.	4

PhD Program information as well as full and part time sample plans of study can be found at UK PhD Program in Nursing

Nutritional Science, PhD

The impact of nutrition on health and disease has produced major clinical and public policy challenges that are shaping research and career opportunities for highly trained nutritional scientists in academia, industry and government. Disease prevention efforts, increased health consciousness and an aging population are further fueling the demand for nutritional scientists. The interdisciplinary Division of Nutritional Sciences enables students in its Ph.D. program to explore the interrelationship between environmental factors and nutrients and their effect on biochemistry, physiology and disease development. More than 50 faculty members provide teaching and individualized research guidance across over 20 departments and divisions in the University's Colleges of Medicine, Health Sciences and Agriculture, as well as the Colleges of Pharmacy, Nursing, and Education. A primary area of research and training targets nutrition and chronic diseases, with a focus on obesity and associated disorders of cardiovascular disease, diabetes and cancer. Other specialty areas include nutrition and oxidative stress, nutrition and aging, clinical nutrition, animal nutrition and food science.

Admission Requirements

There are two ways to be admitted into the PhD program: **direct admission** or through the IBS Program. If accepted into the Integrated Biomedical Sciences (IBS) Program, you will have the opportunity to rotate through 4 research labs during your first year of study; these could be with Nutritional Sciences faculty or with other faculty in the College of Medicine.

Direct Admission Requirements

Applicants must meet the following requirements for admission to the University of Kentucky Graduate School and the Nutritional Sciences Ph.D. program:

1. A baccalaureate degree from a fully accredited institution of higher learning.
2. An M.S. degree with a Grade Point Average (GPA) of 3.2 or above on a 4.0 scale, or a B.S. degree with a GPA of 3.0 or above on a 4.0 scale.
3. For international applicants, a minimum score of 550 out 667 maximum possible is required on the paper-based Test of English as a Foreign Language (TOEFL), a minimum 213 score on the computer-based TOEFL (maximum 300), or 79 on the internet-based TOEFL. The minimum International English Language Testing Service (IELTS) score is 6.5. All applicants must demonstrate proficiency in verbal and written English.
4. Course Prerequisites: an undergraduate physiology course (PGY 206 at UK), 1 year of general chemistry (CHE 105 and 107 at UK), and 1 semester of organic chemistry (CHE 236 at UK).

Degree Requirements

Program Website:

<https://pharmns.med.uky.edu/pharmns-phd-program>

Core Courses for Ph.D. Total credits required for degree = 36

Academic Course Prerequisites to Program:

Biology (2 semesters)

General Chemistry (2 semesters)

Organic Chemistry (1 semester)

Undergraduate Biochemistry and Physiology

CORE CURRICULUM FOR PHD PROGRAM IN NUTRITIONAL SCIENCES

- NS 601 INTEGRATED NUTRITIONAL SCIENCES I (3)
- NS 602 INTEGRATED NUTRITIONAL SCIENCES II (3)
- CNU 603/NS 603 INTEGRATED NUTRITIONAL SCIENCES III (2)

- CNU 609/NS 609 ETHICS IN CLINICAL SCIENCES RESEARCH (1) or TOX 600 ETHICS IN SCIENTIFIC RESEARCH (1)
- NS 704 CURRENT TOPICS IN NUTRITIONAL SCIENCES (1)
- NS 771 GRADUATE SEMINAR IN NUTRITIONAL SCIENCES** (1+)**
- IBS 611 PRACTICAL STATISTICS (2) or STA 570 BASIC STATISTICAL ANALYSIS (3)
- IBS 601/BCH 607 BIOMOLECULES AND METABOLISM (3)
- IBS 602 MOLECULAR BIOLOGY AND GENETICS (3)
- IBS 603 CELL BIOLOGY AND SIGNALING (3)
- IBS 606 PHYSIOLOGICAL COMMUNICATION (3) or PGY 412G PRINCIPLES OF HUMAN PHYSIOLOGY (4) or PGY 502 SYSTEMS, CELLULAR AND MOLECULAR PHYSIOLOGY (5)
- Additional Electives (7-12)
- **Total Credits 36**

**All Ph.D. students must register for 0 credit (except for the one semester registered for 1 credit) and attend all GCNS seminars during their residency at the University of Kentucky. Minimum of 1 credit is required before qualifying examination. In addition, all GCNS doctoral candidates will present a seminar once/year post-qualifying exam. Electives: The student must successfully complete a minimum of 7 credit hours in electives. Elective courses are recommended by the Advisor and approved by the Advisory Committee.

ELECTIVE COURSES

Students must successfully complete a minimum of 7-12 credit hours in electives to meet the minimum requirement of 36 total credits. Elective courses are recommended by the Advisor and approved by the Advisory Committee. A full list of Elective Courses is available in the Handbook. Note, IBS 610 & IBS 608 taken in year one by students admitted through the IBS program fulfill elective requirements.

Pharmaceutical Sciences, PhD

The Graduate Program in Pharmaceutical Sciences is a multidisciplinary program designed to prepare motivated individuals for academic, industrial, or government careers in pharmaceutical and biomedical research. It is a graduate training program that encompasses research in areas of pharmaceutical sciences that range from identifying fundamental mechanisms of human disease, to the design, development and formulation of new medicines, to understanding the impact of drug policies on health care systems. Within this broad scientific framework, students develop individually tailored programs of study to meet their particular research interests and career objectives.

Intense, laboratory-based and data and analysis driven research, using state-of-the-art techniques and instruments, forms the basis of a student's PhD dissertation. Each student develops the skills and judgment to make a unique, scholarly contribution to our understanding of drugs and how these compounds impact human health and disease. Students receive the training that will enable them to become independent scientists who can conduct front-line research in pharmaceutical sciences in industrial, academic or governmental settings.

The overall goal of the graduate program is to provide the graduate student with a comprehensive, structured, yet flexible educational experience comprised of both coursework and independent, highly creative, research. This goal is supported by additional components, such as research rotations for first-year students and a program-wide seminar series. The intent is to provide both depth and breadth of expertise in the Pharmaceutical Sciences along with developing the creative and critical approach to research that characterizes a PhD-level scientist.

Training Options

Doctoral degrees in Pharmaceutical Sciences at the College of Pharmacy are obtained through one of five Tracks.

Medicinal, Bioorganic and Computational Chemistry Track

The Division of Medicinal, Bioorganic and Computational Chemistry (MBCC) is focused on small molecules as well as new protein and nucleic acid based therapies, and natural product drug discovery platforms and seeks to expand its expertise with interests in synthetic/biosynthetic approaches for drug discovery, development of novel computational tools for drug design, and evolution of biologics for specific therapies or drug delivery.

Pharmaceutical Chemistry and Engineering Track

The Division of Pharmaceutical Chemistry and Engineering (PCE) focuses on drug formulation, development and delivery. Areas of emphasis include the application of physical, physical organic, and analytical chemistry to solve pharmaceutical problems; the design, development, and optimization of dosage forms for small and large molecules; and fundamental research into materials science and nanotechnology to advance drug delivery systems design. Collaborations with faculty in the UK College of Engineering provide additional opportunities for a combined pharmaceutical and engineering research program. In addition, faculty participate in preclinical and/or clinical projects through collaborative relationships within the College of Pharmacy and with investigators across the UK Medical Center Complex.

Pharmacology and Experimental Therapeutics Track

The Division of Pharmacology and Experimental Therapeutics (PET) draws upon campus-wide strengths in neurobiology, cardiovascular disease, oncology and infectious diseases. Strong collaborations exist with the Sanders-Brown Center on Aging, addiction/abuse consortia, and the Markey Cancer Center, which recently received NCI Cancer Center designation. Division faculty are skilled in pharmacokinetic and pharmacodynamics, systems biology, neurochemistry and neurophysiology. Translational research programs bridging preclinical and/or clinical projects through collaborative relationships within the College of Pharmacy and with investigators across the UK Medical Center Complex also exist.

Clinical and Experimental Therapeutics Track

The focus of the Clinical and Experimental Therapeutics (CET) Track is translational research, and involves training in how to conduct studies that occur at the interface of basic and clinical research. Since all students admitted to the program will already have a clinical/health profession degree, the emphasis of the program will be training in the basic sciences. This breadth and balance of skills will improve the graduate's ability to successfully compete for extramural funding and job opportunities. There are required clinical components to assure competency in the foundations, principle and processes of clinical research. The keystone of the training is the conduct of an integrated, combined laboratory-based and clinical dissertation.

Pharmaceutical Outcomes and Policy Track

The goal of the Pharmaceutical Outcomes and Policy (POP) Track is to train scientists to conduct research on the safe, efficient, and effective use of pharmaceuticals to improve the health of individuals and populations. The emphasis of the program will be on building a core set of analytical skills and tools to evaluate the impact of clinical interventions and clinical outcomes. Students complete core classes in five areas: pharmacoepidemiology, pharmacoeconomics, statistics, biomedical informatics, and pharmaceutical policy. This breadth and balance of skills will improve the graduate's ability to successfully compete for extramural funding and contribute to the scholarly literature on pharmaceutical outcomes.

<https://pharmacy.uky.edu/admission-aid/phd-program>

Admission Requirements

Admission to the graduate program is competitive and is based upon academic background, professional recommendations, experience and interviews. To be considered for the CET Track, completion of a clinical degree (MD, PharmD, DDS, DVM, etc.) is required.

Degree Requirements

Students must complete a minimum of 36 credit hours in order to sit for the qualifying exam. After successfully completing the qualifying exam, students are required to complete a minimum of two semesters of 767 before they can graduate. Students must remain continuously enrolled in 767 every fall and spring semester until they have completed and defended the dissertation.

Doctoral Program Core Coursework

Each Track has a distinct set of courses. These courses may be offered in the Graduate Program of Pharmaceutical Sciences, or available outside of the Program. The mentor and the Dissertation Advisory Committee are empowered to select those courses that fit best into the educational and career goals of the student and the scientific goals of the dissertation. The Track Coordinator (for first-year students) or mentor and the Dissertation Advisory Committee are empowered to petition the DGS, in writing, to waive courses of the Graduate Program Core if the student has demonstrated sufficient academic mastery of material in courses taken in other programs. The DGS will monitor the coursework of students and keep the Advisory Committee members apprised as to the student's grades and completion of courses. Coursework and grades are reviewed by the Advisory Committee at each yearly meeting.

The student's Dissertation Advisory Committee is responsible for coursework recommendations that are in addition to the common coursework of the program and courses recommended by the Track faculty. Full descriptions of available graduate courses are described in the course section of this bulletin.

Pharmacology, PhD

Graduate study in Pharmacology is designed to prepare candidates for research careers in academics, industry or government laboratories and agencies. The Ph.D. program in Pharmacology trains students in the fundamental principles of basic molecular and biochemical science, while also providing training in the principles of drug-receptor interactions, of experimental therapeutics and of drug discovery. Modern

pharmacology also emphasizes new directions in gene therapy and pharmacogenetics. Students learn the conceptual and technical basis of research while performing mentored and, subsequently, independent research projects in laboratories equipped with state of the art technology and instrumentation.

Students will have the opportunity to join nationally recognized faculty research programs in investigating topics such as: Cardiovascular Disease and Obesity; Molecular Biology of Carcinogenesis and Metastasis; and Neurobiology of Aging and Neurodegenerative Disease, with emphases on memory, hormones, stress, and Type II Diabetes.

Admission Requirements

Admission to the graduate program is competitive and is based upon academic background, professional recommendations, performance on the Graduate Record Examination (GRE), experience, and when possible, personal interviews. It is recommended that students have completed undergraduate courses in organic chemistry, calculus, physics, and biological sciences. The program of study is tailored to the individual background and career goals of the student and can often include interdepartmental study and research. Students are expected to participate in journal clubs and research seminars; to interact with visiting scholars; and to present the results of their research at local and national meetings. Financial aid is available for qualified students.

Admission to the Ph.D. program in Pharmacology is through the Integrated Biomedical Sciences (IBS) program. Information about the admissions process is available at <https://www.uky.edu/academics/doctoral/integrated-biomedical-sciences-graduate>

For information about the Ph.D. program in Pharmacology, please contact the Director of Graduate Studies, Department of Molecular and Biomedical Pharmacology, University of Kentucky College of Medicine, Lexington, KY 40536-0298. Information may also be obtained from <https://www.uky.edu/academics/doctoral/collegeofmedicine/pharmacology-graduate>

Degree Requirements

FIRST YEAR: Integrated Biomedical Sciences Courses

- IBS 601 BIOMOLECULES AND METABOLISM (3 credits)
- IBS 602 MOLECULAR BIOLOGY AND GENETICS (3 credits)
- IBS 603 CELL BIOLOGY AND SIGNALING (3 credits)
- IBS 606 PHYSIOLOGICAL COMMUNICATION (3 credits)
- IBS 608 SPECIAL TOPICS IN INTEGRATED BIOMEDICAL SCIENCES (2 credits)
- IBS 610 CRITICAL SCIENTIFIC READINGS (1 credit)
- IBS 611 PRACTICAL STATISTICS (1 credit)
- TOX 600 ETHICS IN SCIENTIFIC RESEARCH (1 credit)

Required Courses in the Pharmacology Curriculum:

- PHA 621 PRINCIPLES OF DRUG ACTION (3 credits)
- PHA 622 MOLECULAR DRUG TARGETS & THERAPEUTICS (4 credits)

Advanced Pharmacology Electives:

- PHA 616 BIOLOGY AND THERAPY OF CANCER (3 credits)
- PHA 617 PHYSIOLOGICAL GENOMICS (2 credits)

Minimum 36 credits must be earned prior to the Qualifying Examination.

Philosophy, PhD

The Department of Philosophy at the University of Kentucky offers programs of study leading to the Doctor of Philosophy degree. Applicants may, once admitted to the Ph.D. program, apply to leave the program with an M.A. only.

The purpose of the Ph.D. program is to develop the student's ability to complete a Doctoral degree successfully. Doing so will enable the student to do independent research in philosophy, to secure an academic job at the University or College level, or to pursue a career in which rigorous and critical thinking are desired.

The purpose of the M.A. degree is to provide the student with a fundamental understanding of the major historical and contemporary points of view in all of the basic areas of philosophical inquiry and to develop the student's capacity to formulate and analyze philosophical problems. Such a degree is suitable either as preparation for further study in Philosophy or as a complement to advanced training in a variety of other fields.

Admission Requirements

It is expected that candidates admitted to the graduate program in philosophy will: (1) provide proof of completion of a B.A., B.S., or M.A.; (2) have given evidence of superior skills on the GRE; (3) have achieved an overall grade-point average of at least 3.2 (4.0 scale) in all undergraduate course work; and (4) have achieved an overall grade-point average of at least 3.5 in all graduate course work.

Degree Requirements

Satisfactory progress through the Ph.D. program is typically made by fulfilling seven general requirements, each merely summarized here. (The requirements are more technical than this: please refer only to the official program regulations for the authoritative statement of the requirements).

1. At least 52 hours of course work (including 4 hours of PHI 767), with specific distributional requirements.
2. Satisfactory completion of PHI 741 and PHI 742 (1st year Proseminar).
3. Satisfactory completion of PHI 740 (Teaching Practicum).
4. Satisfactory completion of PHI 520 : Logic, or its equivalent.
5. Satisfactory demonstration of reading competence in one foreign language relevant to the student's philosophical program of study (e.g., Greek, Latin, French, or German).
6. Satisfactory completion of three steps preparatory to writing the dissertation: the Area Proposal, the Qualifying Exam, the Dissertation Proposal (each of these steps has written and oral components).
7. Satisfactory completion and oral defense of a Dissertation.

The coursework requirements differ depending on previous graduate coursework, specifically whether one enters with no M.A. in Philosophy, a one-year M.A. in Philosophy, a two-year M.A. in Philosophy. See these checklists for summaries:

- Checklist of PhD requirements (no previous M.A.)
- Checklist of PhD requirements (previous one-year M.A.)
- Checklist of PhD requirements (previous two-year M.A.)

Physics, PhD

The Department of Physics and Astronomy offers courses and research opportunities leading to the M.S. and Ph.D. degrees in the areas of astronomy and astrophysics, atomic and molecular physics, low and intermediate energy nuclear physics, condensed matter physics, and particle physics. More detailed descriptions of each of these options is available at <https://pa.as.uky.edu/pa-faculty-research>.

Opportunities exist for experimental, theoretical, and computational, and observational research. Excellent laboratory facilities and library materials are available. Major facilities located within the Department are the six million volt Van de Graaff accelerator and the Center for Advanced Materials. Computational resources include the Lipscomb HPC cluster and access to XSEDE, NERSC, TACC, JLab and BNL. The Department is active in research at many national laboratories, including Jefferson Lab (Virginia), Oak Ridge National Lab (Tennessee), Los Alamos National Lab (New Mexico), Argonne National Lab. (Illinois), Brookhaven National Lab (New York), Triangle Universities Nuclear Lab (North Carolina), National High Magnetic Field Facility (Florida), and Lawrence Berkeley Lab (California) as well as international laboratories including Paul Scherrer Institute (Switzerland), TRIUMF (Vancouver), and MAX-lab (Sweden). In astronomy our students conduct research at facilities including the National Radio Astronomy Observatory (West Virginia), Arecibo Observatory (Puerto Rico), Kitt Peak National Observatory (Arizona), McDonald Observatory (Texas), and the Hubble Space Telescope, and participate in collaborations including Sloan Digital Sky Survey-IV (SDSS-IV) and the Large Synoptic Survey Telescope (LSST). Such activities expose our graduate students to state-of-the-art instrumentation and world-class researchers.

Admission Requirements

In addition to the admissions requirements of the Graduate School, the Department of Physics & Astronomy requires graduate applicants to have a sound foundation in undergraduate physics. This foundation will normally include advanced courses in classical mechanics, electromagnetism and quantum mechanics. Applicants are encouraged to take the GRE physics subject exam. Applicants wishing to apply for financial aid in the form of a teaching assistantship, research assistantship or fellowship must supply letters of recommendation from three individuals familiar with their academic capabilities. Such applicants must also submit a written statement of their interests and background in physics.

Admissions requirements are the same for the M.S. and the Ph.D. programs except that applicants for the Ph.D. must possess an interest in carrying out original research at the advanced level.

Degree Requirements

Requirements to be Added

The Ph.D. degree is a research degree granted on the basis of broad knowledge of physics and in-depth research in a specific area leading to a dissertation (and generally publications in appropriate refereed journals). Students may perform this research at the University of Kentucky or appropriate collaborating institutions. Before taking the Ph.D. qualifying exam, the student must pass the Physics GRE at the 50th percentile or higher and satisfactorily pass core courses in graduate classical mechanics, electromagnetism, quantum mechanics, and statistical mechanics, as well as electives in topical areas of modern physics.

Physiology, PhD

Graduate study in physiology is designed to prepare candidates for careers as independent scientists in academics, industry, and government positions. Admission to the graduate program is competitive and is based upon academic background, professional recommendations, performance on the Graduate Record Examination (GRE), experience, and when possible, personal interviews. Applicants should complete an undergraduate degree in a relevant area such as biological sciences, chemical sciences, physical sciences, mathematics, psychology, or engineering. It is recommended that applicants complete courses in organic chemistry, physical chemistry, calculus, physics, and the biological sciences, as well as have some research experience.

Students will have the opportunity to join faculty research programs that cover topics including neural, endocrine, cardiovascular, renal, respiratory, sensory, and muscle physiology. Research activities employ systems, cellular, and molecular approaches. The program of study is tailored to the individual background and career goals of the student and stresses an interdepartmental approach both in the selection of courses and in the pursuit of research. Students are expected to participate in graduate seminars, journal clubs, research seminars; to interact with visiting scholars; and to present the results of their research at local and national meetings.

Teaching opportunities leading to a graduate certificate in teaching is also available. Financial aid is available to the students accepted to the program.

Admission Requirements

Most students enter the Physiology PhD program after completing the one year Integrated Biomedical Sciences program. Further information about that program (including its admission requirements) are available at <https://graduate.med.uky.edu/integrated-biomedical-sciences>.

Some students, including those pursuing an MD/PhD or DO/PhD, may be considered for direct admittance to the Physiology program. These students typically have an ongoing professional relationship with an identified faculty mentor.

Specific questions can be addressed to the Director of Graduate Studies at pgy.dgs@uky.edu

Degree Requirements

Students must earn 36 hours of graduate credit to take their Qualifying Exam. Individuals transferring from the Integrated Biomedical Sciences program must gain a B or better in both PGY 502 SYSTEMS, CELLULAR AND MOLECULAR PHYSIOLOGY (5 credits) and PGY 602 READINGS IN SYSTEMS, CELLULAR AND MOLECULAR PHYSIOLOGY (3 credits). Most students take their Qualifying Exam after ~15 months in the Physiology department.

After passing their Qualifying Exam, students must maintain continuous enrollment in PGY 767 DISSERTATION RESIDENCY CREDIT until they have written and defended their research thesis. The mean time to graduation is ~5years.

More information is available at <https://physiology.med.uky.edu/>.

Plant Pathology, PhD

Applicants seeking admission to the Ph.D. program in the Department of Plant Pathology as regular students must have an awarded baccalaureate degree. Each Ph.D. student's program is guided by a Major Professor (Dissertation Director) and an Advisory Committee throughout the student's graduate career. The purpose of the Advisory Committee is to give the student continuity of direction and counsel and provide intellectual stimulation throughout residency to completion of the doctorate.

The DGS, or a designee (usually the Major Professor), serves as advisor to beginning graduate students until the Advisory Committee is appointed. Most students enter the program having already committed to a Major Professor; however there is an option for an incoming Ph.D. student who is supported on departmental assistantship or fellowship money to do two or three short lab rotations before choosing a Major Professor. This option is not available to students who are supported on individual grant funds. The Advisory Committee should be appointed before the end of the student's second semester. It MUST be appointed no less than one year prior to the Qualifying Examination. The Major Professor and Advisory Committee must be recommended to the Graduate School by the DGS. The DGS will approve the committee only if it meets all Graduate School requirements (below), provides a reasonable breadth and balance of expertise in the major and related disciplines, and presents no obvious conflicts of interest. Once the DGS has approved and recommended the committee, it will be officially appointed by the Graduate Dean. The Dissertation Director and the Advisory Committee specifically set requirements (within the rules

and regulations of the Plant Pathology program, Graduate School, and University), which the student must meet in pursuit of the doctorate.

The Ph.D. Advisory Committee has a core of four members. This core consists of the Major Professor (Dissertation Director) as chair, two other faculty members from Plant Pathology, and at least one representative from outside the Plant Pathology Department. At least one representative must be from a minor area(s), different from the student's major research focus. All members of the core must be members of the Graduate Faculty of the University of Kentucky, and at least three (including the chair or a co-chair) must possess Full Graduate Faculty status. Additional faculty members can serve as members of the Advisory Committee. The core of the Advisory Committee must be kept at its full complement throughout the graduate career of the individual student. Thus, in the event of an unforeseen vacancy on the committee, an appropriate replacement must be made prior to any subsequent committee decisions. The DGS must recommend any replacements or changes to an Advisory Committee to the Graduate School. All decisions of the Advisory Committee are by majority vote of its Graduate Faculty members. Advisory Committee decisions are reported promptly to the DGS, who then transmits them to the Dean of the Graduate School.

In addition to advising and program planning, the Advisory Committee also administers the Qualifying Examination, supervises the preparation of the dissertation and, along with the Outside Examiner (selected by the Graduate School), administers the Final Examination. Regular committee meetings are essential both before and after the Qualifying Exam. Each student must meet with her or his Advisory Committee at least once a year to present a written and oral progress report. At a meeting prior to the submission of the thesis or dissertation to the Advisory Committee, agreement should be reached on the extent of additional research to be conducted for the completion of the thesis or dissertation. It is the responsibility of the student to schedule all necessary meetings with his or her Advisory Committee. A record of each meeting that includes the written progress report, signed by the student and the Major Professor, will be provided to the DGS by the Major Professor within two weeks of the meeting, and a copy will be placed in the student's file.

Admission Requirements

The Graduate School's requirements for admission are likewise the minimum requirements for acceptance into the Ph.D. program of the Department of Plant Pathology. However, additional materials are required for application to the Plant Pathology Ph.D. program. Each applicant must arrange for three letters of recommendation to be sent, and must also provide a curriculum vitae and a written statement identifying the applicant's reasons for desiring to undertake studies in this department, to the Plant Pathology DGS. These materials, and those submitted to the Graduate School, are considered on a case-by-case basis by the department's Academic Program Committee, which then makes a recommendation on admission. Admission to a graduate program in Plant Pathology does not guarantee financial assistance to the student. Applicants who are admitted will also be informed of any financial offer in a contract that they must sign in order to be admitted to the Graduate School.

Degree Requirements

Departmental Requirements

All graduate students pursuing a Ph.D. degree in the Plant Pathology program ideally should have, or should obtain, a background in the following areas: mathematics through differential and integral calculus; physics;

chemistry, including analytical, organic, and biochemistry; and the equivalent of introductory courses in botany, plant physiology, genetics, molecular biology, statistics and microbiology. The Academic Program Committee will inform the Major Professor and the student, in writing, of any relevant course deficiencies at the time of admission to the program. Deficiencies should be corrected early in the graduate program either by formal coursework or, with the approval of the Advisory Committee, by independent study. In some cases, the Advisory Committee may decide to waive certain of these requirements, depending on the student's background, goals, and interests. Agreements regarding remedial coursework, independent study, or waivers should be recorded in the notes of the meeting in which they were discussed, and included in the student's file.

Basic Course Requirements

All students are strongly encouraged to take PPA 400G PRINCIPLES OF PLANT PATHOLOGY, even if they have had a similar course previously. This course provides a common basis for subsequent required courses in the department, and will allow international students to become conversant with domestic terminology and perspective in the discipline. Required courses for the Ph.D. are PPA 500 PHYSIOLOGY OF PLANT HEALTH AND DISEASE, PPA 600 CRITICAL METHODS IN PLANT-MICROBE INTERACTIONS, PPA 640 IDENTIFICATION OF PLANT DISEASES, PPA 641 PLANT DISEASE, POPULATION BIOLOGY, AND BIOTECHNOLOGY, and PPA 770 PLANT PATHOLOGY SEMINAR. Ph.D. students are required to complete all of the above courses, and also to take at least two of the following courses: PPA 670 PLANT BACTERIOLOGY, PPA 671 ADVANCED PLANT VIROLOGY, PPA 650 FUNGAL BIOLOGY, and PPA 673 ADVANCED PLANT DISEASE RESISTANCE. The Advisory Committee may decide to waive one or more of these course requirements if the student has already taken equivalent coursework at another institution. A record of this decision should be placed in the student's file.

Individual Course Requirements

Elective courses will be determined by the student together with the Major Professor and Advisory Committee, taking into account the student's background, research topic, and area of specialization.

Political Science, PhD

The Ph.D. program is divided into a general phase and a specialized phase. Entering students spend their first year in the general phase, which includes proseminars in methodology and in the major fields of political science. Students who have previously taken graduate work may be exempt from some of these proseminars. At the end of the first year of graduate work, the student is evaluated by a departmental committee which determines whether the general phase has been satisfactorily completed. During the specialized phase of the graduate program, the student's work is based on a program of study prepared with their Advisory Committee. The student takes advanced work in at least two substantive fields in political science, a major and a minor field. Possible major fields include: American politics, Comparative politics, and International Relations. The possible minor fields are: American, Comparative, International Relations, Institutions, Behavior, Policy, Methods (the major and minor field cannot be the same).

The student completes qualifying exams evaluated by faculty field committees that consist of written and oral examinations in each of the two substantive fields specified in the student's program prior to defending the prospectus for the dissertation. The qualifying examination in political science consists of the prospectus defense given by the Advisory Committee. The student then writes a dissertation and defends it in a final oral examination. Candidates for the Ph.D. in political science must demonstrate proficiency in a research skill. The required research skill will consist of additional quantitative skills or proficiency in a foreign

language that is directly pertinent to the student's research interests. Additional details about requirements may be secured from the Department of Political Science.

Admission Requirements

Candidates for admission to the graduate program in political science must apply using the Graduate College online application system. Required information includes (1) a copy of transcripts and GRE scores; (2) a one- to three-page Statement of Purpose explaining why the student wishes to pursue a Ph.D. degree; (3) three letters of recommendation from persons familiar with the applicant's academic performance; (4) a sample of writing on a topic relevant to political science; (5) a resume or curriculum vitae, and (6) TOEFL scores if the applicant's first language is not English. Applications will only be considered for the fall semester.

Applicants will be evaluated on the basis of the Department's judgment of the likelihood of their success in the program as compared with other applicants and considering the limited number of applicants accepted to the program. In evaluating candidates, the Department will consider the totality of their records, including grades, test scores, letters of recommendation, writing samples, and other relevant information. The department usually only accepts applicants to the Ph.D. program. Students who do not have political science undergraduate majors are welcome in this program.

Degree Requirements

Core course requirements

- PS 572 INTRODUCTION TO QUANTITATIVE POLITICAL METHODOLOGY
- PS 671 STRATEGIES OF INQUIRY IN POLITICAL SCIENCE
- PS 672 INTRODUCTION TO TECHNIQUES OF POLITICAL RESEARCH
- 3 of the following field seminars
 - PS 620 COMPARATIVE POLITICS: THEORY AND METHOD
 - PS 674 PROSEMINAR IN THEORIES OF INTERNATIONAL POLITICS
 - PS 680 PROSEMINAR IN POLITICAL INSTITUTIONS AND PROCESS
 - PS 681 AMERICAN POLITICAL BEHAVIOR
- 3 additional courses in the major field
- 2 additional courses in the minor field

Required Courses related to the dissertation

- PS 796 DIRECTED RESEARCH IN POLITICAL SCIENCE
- PS 767 DISSERTATION RESIDENCY CREDIT

Ph.D. students must demonstrate proficiency in a research skill. The required research skill will consist of additional quantitative skills (usually an additional class) or proficiency in a foreign language that is directly pertinent to the student's research interests.

Psychology - Clinical Psychology, PhD

The department offers the Ph.D. degree in psychology in two programs: clinical psychology and experimental psychology, the latter subdivided into cognitive neuroscience, and developmental, social, and health psychology. The major goal of the doctoral programs in psychology is to prepare the student for a career in research in both academic and non-academic settings and in teaching.

The area of specialization in clinical psychology provides academic courses, practica, and internships which permit students to combine their teaching and research activities with a clinical career in the mental health field. Special areas of expertise among clinical faculty include psychological assessment, child clinical psychology, health psychology, neuropsychology, personality, psychopathology and diagnosis, psychotherapy, research methodologies, and substance abuse. Clinical training is facilitated by early placement of students at a variety of sites including medical centers, a federal corrections facility, community mental health centers, state and private psychiatric hospitals, and the department's own psychological clinic. Our doctoral program is accredited by the American Psychological Association and by the Psychological Clinical Science Accreditation System.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Health Psychology Concentration
- Neuropsychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 36 hours of pre-qualifying residency required

Core requirements

The required courses for clinical students are:

- Introduction to Clinical Psychology (PSY 629)

- Psychological Assessment and Practicum (PSY 630 PSY 631 PSY 632 PSY 633)
- Systems of Psychotherapy (PSY 636)
- Psychopathology (PSY 603)
- Psychological Statistics (PSY 610 & PSY 611)
- Research Design (PSY 616)
- History and Systems (PSY 620)
- Professional Issues in Clinical Psychology (PSY 708)
- Broad Training in Social Psychology (PSY 780) or Social Proseminar
- Broad Training in Cognitive Psychology (PSY 780) or Cognitive Proseminar
- Broad Training in Physiological Psychology (PSY 780) or Physio Proseminar
- Broad Training in Developmental Psychology (PSY 780) or Developmental Proseminar
- Ethics (PSY 710)
- Multicultural Psychology (PSY 710 or, with permission, EDP 616)
- One additional advanced clinical seminar (PSY 710) emphasizing clinical science and integrative topical training (e.g. Dialectical Behavior Therapy; Child Psychopathology; PTSD, Personality)
- Practicum in Psychological Assessment & Intervention (PSY 637 and PSY 639). 2nd through 4th years - you must have a minimum of 3 semesters of advanced group supervision (3 credits per semester). Most students have at least 2 full years of PSY 637 training. The beginning supervision group and the summer groups do not contribute to this requirement. In addition, you must continue to register for one credit of PSY 637 for each semester in which you will have clinical contacts as part of the training program. PSY 639 is required in the summers for students involved in any type of clinical training.
- Practicum in Psychological Assessment & Intervention (SUMMER PSY 639) - 0 credit. You MUST be registered for this during the summer if you have any type of clinical contact (client, assessment, clinical research, or practicum).
- Master's Thesis Research/Research Pre-quals (PSY 790)
- Residency/Dissertation Credits (PSY 767)
- Internship (PSY 708)

General information on electives

- Most students will complete elective courses in addition to those listed above. Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Psychology - Experimental Psychology, PhD

The department offers the Ph.D. degree in psychology in two programs: clinical psychology and experimental psychology, the latter subdivided into cognitive neuroscience, and developmental, social, and health psychology. The major goal of the doctoral programs in psychology is to prepare the student for a career in research in both academic and non-academic settings and in teaching.

The Cognitive Neuroscience program is intended for students who wish to study the underlying neural systems of cognitive processes. It provides a strong background in both systems-level neuroscience and cognitive psychology and allows students to develop integrative research interests that cross domains. Research includes a range of topics and methodologies aimed at understanding mechanisms of behavior in laboratory animals and human subjects. Drug use and addictive behaviors are a key focus. Levels of analysis include cellular function, animal behavior, and human substance users. Methodologies include electrochemical measurements, chemogenetics, neuronal cell culture, psychopharmacology, analytical chemistry, quantitative modeling of cognitive functions and decision-making, and fMRI.

In the Developmental, Social, Health program, students typically receive primary conceptual and methodological training in Developmental Psychology, Social Psychology, OR Health Psychology (each are "tracks" within our program). This training will reflect the expertise of your advisor (and lab) in their respective subfield (e.g., Social Psychology) and will prepare you for the academic job market in this subfield. As some faculty in the Developmental, Social, and Health program are truly "hybrid" psychologists (equivalent expertise in Social and Developmental Psychology, for example), students may also gear training across subfields by pursuing relevant coursework, research collaborations, teaching experiences, etc.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the 2 advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Cognitive Neuroscience Area
- Developmental, Social, & Health Area
- Health Psychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 36 hours of pre-qualifying residency required

Core requirements

- **Cognitive Neuroscience:**
 - Statistics sequence: PSY 610 - Experimental design PSY 611 - Correlational design
 - PSY 780 - Problems in Psychology: Directed Readings in Cognitive Neuroscience (section to be determined each semester)
 - Any three proseminars selected from the following areas: * note that another course (typically a 700-level course) may be substituted for one or more of these proseminars, pending approval of the student's supervisory committee:
 - Learning
 - Cognitive processes
 - Developmental Psychology
 - Sensation & Perception
 - Physiological Psychology
 - Four electives (a minimum of one of these must be outside of the Psychology Department)
 - Additional course work as recommended by the advisory committee
 - Residency/Dissertation Credits (PSY 767)
- **Developmental, Social, & Health:**
 - Statistics sequence: PSY 610 - Experimental design PSY 611 - Correlational design
 - Any three proseminars offered by the Department of Psychology, with the general expectation that Developmental (PSY 625), Social (PSY 624), and/or Health Psychology proseminars will be completed.
 - Additional coursework or experience - typically advanced topical or methods seminars - as recommended by advisory committees, primary advisor, and/or program coordinator.
 - Residency/Dissertation Credits (PSY 767)

General information on electives

- Most students will complete elective courses in addition to those listed above. Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.
- <https://psychology.as.uky.edu/psych-application-info>

Public Policy and Administration, PhD

The curriculum of the Ph.D. program provides knowledge of the principles of organizational behavior, an understanding of the public policy process and policy issues, and an ability to analyze policy and administrative problems through research and analytical methods.

Admission Requirements

Many incoming students will hold a master's degree in public administration or public policy. Other students with master's degrees in such areas as political science, economics, agricultural economics or business administration will be evaluated with respect to their background in public administration. All students are expected to have taken four University of Kentucky courses: PA 652 PUBLIC POLICY ECONOMICS, PA 631 PUBLIC FINANCIAL MANAGEMENT, PA 642 PUBLIC AND NONPROFIT ORGANIZATION THEORY AND BEHAVIOR, and PA 651 THE POLICY PROCESS, or their equivalents from a NASPAA accredited program or their equivalents. Students who have not fulfilled these class requirements will do so before taking the relevant Ph.D. core classes. All students are also expected to have a strong background in research methodology and will need to take calculus before beginning the Ph.D. classes. Applicants must be prepared to submit:

- A one-to-three-page statement explaining why you wish to pursue a Ph.D. degree.
- A resume or CV.
- Transcripts from each post-secondary institution that you have attended. They can be unofficial for admission purposes, but official transcripts must be submitted upon enrollment.
 - Minimum of 2.75 GPA on all undergraduate coursework, preferably over 3.0 GPA.
 - Minimum of 3.0 GPA on all previous graduate level coursework, preferably over 3.5 GPA.
- The email address of at least three individuals who have agreed to write a recommendation letter on your behalf. Ideally, at least two letters are from academic references.
- A writing sample.
- You will enter your GRE or GMAT scores in the Graduate School application but will also need to submit official scores from ETS.

The Martin School does not have "cut-off" scores when it comes to the GRE (or other accepted admissions exam) and considers all aspects of students' records, including evidence of improving performance during students' academic careers. The final selection of students for admission will be subject to the discretion of the director of Graduate Studies based on the advice of the admissions committee of the Ph.D. program. Competitive admission is based on a consideration of the documents listed above.

Degree Requirements

Students are required to take 42 hours of graduate course work beyond the master's degree or its equivalent.

- The program of study includes 15 credit hours of core courses,
 - PA 731 FISCAL AND BUDGETARY POLICY (3)
 - PA 742 THEORY OF PUBLIC ORGANIZATIONS (3)
 - PA 750 INTRODUCTION TO ECONOMICS FOR PUBLIC POLICY (3)
 - PA 751 PUBLIC POLICY FORMULATION AND IMPLEMENTATION (3)

- PA 752 THE ECONOMICS OF POLICY ANALYSIS (3)
- 15 credit hours in the area of concentration,
- 3 credit hours of theory related to and supporting the student's area of concentration, and
- 9 credit hours of research methodology courses.
- In addition to course work, students complete two exams and a dissertation.
The dissertation involves research on a public management or public policy issue.
- PA 767 DISSERTATION RESIDENCY CREDIT (2) (minimum of 2 semesters)

<https://martin.uky.edu/phd>

Radiation and Radiological Sciences, PhD

Medical Physics is a profession that includes clinical, industrial and academic practices. The Radiation and Radiological Sciences PhD program is designed primarily for students who desire to enter a clinical career, but who want to acquire the additional skills and credentials that accompany a PhD. This educational program is provided by the Departments of Radiation Medicine and Radiology, both of which are clinical departments within the UK Healthcare enterprise, thus providing a unique culture and context to the training. Research areas involve collaborative efforts between students, clinical physicists and physicians, and often possess direct clinical applicability. The collaborative nature of the program structure allows for didactic, clinical and research training in therapeutic and diagnostic medical physics. Addition information is available on our website at <https://radiationmedicine.med.uky.edu/radiation-sciences-graduate-program> .

Admission Requirements

A BS or MS in Physics is desirable, but students possessing related physical science backgrounds are eligible and qualified. At a minimum, candidates must show the equivalence of a minor in physics in all undergraduate work, as defined by the American Board of Radiology and CAMPEP. To meet the Minor in Physics requirement, candidates must have completed the following: 1) Calculus through Ordinary Differential Equations; 2) The Calculus based introductory General Physics sequence with labs (2 semesters); and 3) Three upper division Physics electives (junior level or above). Courses in Human Anatomy, Human Physiology, Computer Science, and Scientific Statistics are preferred but, if missing, may be incorporated into the graduate program at the discretion of the Director of Graduate Studies. An undergraduate GPA of 3.50 is highly desirable. The General GRE exam is required. While there are no absolute minimum scores required, a score on the Verbal section at or above the 60th percentile and a score on the Quantitative section at or above the 80th percentile are desirable.

An interview is required of all applicants being considered for admission. Fluent spoken English skills are required and are assessed during the interview. In addition, observation or job shadowing of a certified clinical Medical Physicist is very important when considering applicants for admission. Three Letters of Recommendation and a personal statement are also required. The deadline for applications is April 30th, however, offers for admission are usually made early in the preceding Spring semester with completion of the class roster by May. Therefore, it is recommended that applications be completed by January 31 to assure full consideration.

Degree Requirements

A minimum of 52 credit hours are required for the PhD degree consisting of 34 core credit hours and 18 elective credit hours. The elective credit hours (18) must include at least 6 hours of graduate level (i.e., 4xxG, 5xx, 6xx or 7xx) didactic coursework covering related topics in science, engineering, or medicine. The intent of this requirement is to encourage interdisciplinary collaboration and to develop rigorous scientific skills. The selection of the specific courses is variable. The remaining 12 elective credit hours may be fulfilled by any combination obtained from the list of "Available PhD Electives" below. These credits must be approved by the student's dissertation advisor. In addition, completion of 48 hours is required for pre-qualifying residency. Post-qualifying residency must be a minimum of 4 credit hours of RAS 767. Students must maintain at least a 3.0 GPA for retention in the program. A student's progress will be reviewed annually by their graduate committee and any deficiencies or concerns identified will be followed up with the student. The qualifying exam will consist of two major components, one written and one oral. Students must pass both to be allowed to progress in the PhD program. The written component will be a problem-based exam consisting of 4 subject areas. These are:

1. General Radiological Physics and Dosimetry
2. General Physics of Medical Imaging
3. General Physics of Radiation Therapy
4. Elective Subject (select one from the following list)
 1. Advanced Radiation Therapy Physics
 2. Advanced Medical Imaging Physics
 3. Other topic approved by the Advisory Committee

The written exam is given over a two non-sequential day period. Day one will cover subject areas 1, 2, and 3 while day two will cover section 4. The written exam will typically be taken in the second year of the program and a score of 50% or greater will be required in order to pass. Students who do not pass on the first attempt will be allowed a second attempt. If the second attempt is unsuccessful then the student will not be allowed to proceed in the PhD program. Such students will, however, be allowed to attempt to complete the degree requirements for an En passant MS degree in Radiation Sciences and be awarded that degree upon successful completion. The qualifying oral exam will be taken after successful completion of the written exam, but typically not to exceed 3 years from the initial date of enrollment. The student must orally defend a proposal for the selected dissertation topic. The proposal defense will be delivered to the student's dissertation advisory committee.

Required Core Courses (34 credit hours)

- RAS 472G/RM 472G INTERACTION OF RADIATION WITH MATTER (3)
- RAS 545/RM 545/PHY 545 RADIATION HAZARDS AND PROTECTION (3)
- RAS 546/RM 546/PHY 546 GENERAL MEDICAL RADIOLOGICAL PHYSICS (3)
- RAS 601/RM 601 ADVANCED RADIATION DOSIMETRY (2)
- RAS 647/RM 647 PHYSICS OF DIAGNOSTIC IMAGING I (3)
- RAS 648/RM 648 PHYSICS OF DIAGNOSTIC IMAGING II (3)
- RAS 649/RM 649 PHYSICS OF RADIATION THERAPY (3)
- RAS 651 ADVANCED LABORATORY IN DIAGNOSTIC IMAGING PHYSICS (2)
- RAS 695/RM 695 RESEARCH IN HEALTH-RELATED RADIATION SCIENCES (4)
- RAS 710 RADIATION SCIENCE SEMINAR (SUBTITLE REQUIRED) (1)

RAS 711 RESEARCH METHODS IN MEDICAL PHYSICS (1)

RM 740/BIO 740 MAMMALIAN RADIATION BIOLOGY (2)

RAS 767 DISSERTATION RESIDENCY CREDIT (4)

Elective Courses (18 credit hours) Partial Listing

RM 660 GRADUATE PRACTICUM IN RADIATION MEDICINE (1-6)

RAS 650 PHYSICS OF RADIATION THERAPY II: BRACHYTHERAPY PHYSICS (2)

RM 842 RADIATION ONCOLOGY (1)

RM 848 PRACTICUM IN BRACHYTHERAPY PHYSICS (1-3)

RM 849 PRACTICUM IN EXTERNAL BEAM THERAPY PHYSICS (1-6)

EE 630 DIGITAL SIGNAL PROCESSING (3)

EE 635 IMAGE PROCESSING (3)

BME 540 BIOMEDICAL INSTRUMENTATION (3)

BMI 730 PRINCIPLES OF CLINICAL INFORMATICS (3)

Other Electives may be used with approval of the Dissertation Advisor

Rehabilitation Sciences, PhD

The mission of the Rehabilitation and Health Sciences PhD Program is to fulfill a leadership role in addressing the rehabilitation and health needs of individuals in the Commonwealth of Kentucky and beyond through research, education and service.

The Rehabilitation and Health Sciences PhD program is an interdisciplinary and interinstitutional program led by the University of Kentucky in close cooperation with Eastern Kentucky University, and Western Kentucky University. The educational and research expertise of these universities and faculties creates a program that enables its graduates to provide academic, research, and clinical leadership. The Rehabilitation and Health Sciences PhD Program graduates will receive their Ph.D. from the University of Kentucky.

Students in the program have the unique opportunity to study with faculty from the different health professions offered in the participating institutions, such as athletic training, communication science and disorders, occupational therapy, physical therapy, physician assistants and health services research, and take courses from faculty specialized in these disciplines. Students in other disciplines can also apply and are accepted on an individual basis.

Admission Requirements

Individuals applying for admission must hold at least a professional or post-professional master's degree. Eligibility for licensure or clinical certification in Communication Sciences & Disorders, Athletic Training,

Occupational Therapy, Physician Assistant or Physical Therapy is encouraged, but not required for admission into the program. Those with basic science graduate degrees and interests are also welcomed to apply and will be considered equally for admission. Acceptance into the Program is dependent upon identifying and matching your area of research interest with an RHB faculty member willing to serve as your doctoral studies program mentor.

Degree Requirements

44 Total Credit Hours

Required Core Courses:

- RHB 701 REHABILITATION AND HEALTH SCIENCES THEORIES & APPLICATIONS THROUGH THE LIFE SPAN (3 credits)
- RHB 714 CRITICAL APPRAISAL OF RESEARCH IN REHABILITATION AND HEALTH SCIENCES (3 credits)
- RHB 720 RESEARCH IN REHABILITATION AND HEALTH SCIENCES (3 credits)
- RHB 771 RESEARCH SEMINAR IN REHABILITATION AND HEALTH SCIENCES (2 credits spread out over 2 semesters)
- RHB 775 PROFESSIONAL SEMINAR IN REHABILITATION AND HEALTH SCIENCES: RESPONSIBLE CONDUCT IN RESEARCH AND ETHICS (1 credit)
- Two out of the following 3 courses are required:
 - RHB 772 PROFESSIONAL SEMINAR IN REHABILITATION AND HEALTH SCIENCES: ACADEMIA & BEYOND (1 credit)
 - RHB 773 PROFESSIONAL SEMINAR IN REHABILITATION AND HEALTH SCIENCES: GRANT WRITING (1 credit)
 - RHB 774 PROFESSIONAL SEMINAR IN REHABILITATION AND HEALTH SCIENCES: ISSUES IN TEACHING AND LEARNING IN HIGHER EDUCATION (1 credit)

Required:

- 6 credits in Research Methodologies
- 12 credits in area of specialization
- 6 credits in Research apprenticeship (RHB 789)
- 2 credits in Teaching apprenticeship (RHB 787)
- 4 credits in Dissertation hours (RHB 787)

Students must obtain a grade of "B" or better in RHB core courses.

Students are allowed a grade of a "C" in only two credited activities (class, seminar, independent study, research experience, or apprenticeship) during their doctoral education.

A grade of E in any coursework is grounds for dismissal from the program.

<https://www.uky.edu/chs/rehabilitation-sciences-phd-program>

Social Work, PhD

The purpose of the PhD in social work is to prepare students to be "stewards of the discipline" (Walker et al., 2008 as cited in GADE, 2013). Students' areas of scholarship should stem from the mission and purpose of

the profession: "to enhance human well-being and help meet the needs of all people, with particular attention to the needs and empowerment of people who are vulnerable, oppressed, and living in poverty" (NASW Code of Ethics, 2017). Through course work, as well as the Preliminary and Qualifying Examinations, and dissertation development, students develop the capacity for scholarly inquiry and action that are the foundations for creative, independent, and meaningful scholarship. The PhD in social work also offers coursework and mentored teaching experience to develop and strengthen students' skills as social work educators.

The UK CoSW PhD program is designed so that students will attain knowledge and skills associated with:

- A social problem that is addressed in the dissertation
- Theories that underlie interventions and approaches to the social problem
- Empirical research methodology, statistics, and other analytic techniques
- Effective approaches to teaching and mentoring future social workers.
- Expertise in a particular interest area
- Creating publishable research and making scholarly contributions to the profession

Admission Requirements

- a master's degree in social work from a program accredited by or judged to be equivalent by CSWE (applicants with other master's degrees can also be considered)
- at least two years' post-master's full-time, paid experience in social work is preferred
- an undergraduate grade point average (GPA) of 3.0 on a 4.0 scale and a graduate GPA of 3.5
- official transcripts from each college/university attended
- Graduate Record Examination (GRE) test scores
- three letters of reference that address their potential for success in a research-oriented doctoral program and aptitude for research and teaching. Recommendations from individuals who have supervised your research and scholarly work (e.g., research project supervisors, thesis advisors, professors) tend to be the most useful to the admissions committee and should comprise the majority of the letters.
- a writing sample or publication
- a personal statement that describes career and research interests, motivation for pursuing a PhD, what attracts the applicant to the PhD program at UK, and any other factors that should be considered in the evaluation of the application.

Degree Requirements

The minimum requirements for the PhD include:

- Core Curriculum - 29 credit hours
- The pedagogical mission of the PhD core curriculum is to help students understand, apply, and implement the most up-to-date and effective analytic tools available from the human, behavioral, and social sciences to meet the challenges facing the doctoral level researcher, teacher, and practitioner. The sequencing of the course work moves the student from foundational principles and analytic skills necessary for scientific research, to the application of specific research design and statistical methods necessary for design and implementation of specific projects. Three courses focus on theory development, five on the mastery of research and statistical approaches, one on the theory and methodology of teaching; and two professional seminars introduce the students to the professional development, research, and service related activities of social work scholars and faculty.
- Individualized Plan of Study - 15 credit hours
- 9 credit hours - Individualized Study (elective courses selected in consult with advisor; these can be taken outside the CoSW)
- 6 credit hours - Research/Teaching Practica (SW 786 / SW 787 ; students typically do one of each)
- Preliminary exam - Systematic Literature Review
- Dissertation Research Residency - (at least) 4 credit hours of SW 767

Sociology, PhD

The Sociology graduate program offers Master of Arts and Doctor of Philosophy degrees. Graduate students choose an area of specialization related to the following faculty areas of expertise: Crime, Law, and Deviance; Environment and Society; Health and Medical Sociology, and Social Inequalities. Additionally, students must demonstrate competence in sociological theory and social science research methods.

To aid in financing graduate education, a number of teaching or research assistantships are available to qualified students. Outstanding students may compete for fellowships.

Opportunities for multidisciplinary work exist in conjunction with centers and programs at the University of Kentucky including the Appalachian Center and Appalachian Studies, Center for Health Equity Transformation, Center for Research on Violence Against Women, Prevention Research Center, Center on Drug and Alcohol Abuse, Center for Poverty Research, Committee on Social Theory, Commonwealth Institute for Black Studies, Cooperative for Humanities and Social Sciences, Gender and Women's Studies, Quantitative Initiative for Policy and Social Research, and the Sanders-Brown Center on Aging. Assistantships and traineeships are also available to qualified sociology graduate students through these centers and programs.

Admission Requirements

The following materials are required to apply for admission to the graduate program in Sociology and should be sent directly to the Graduate School's application system website. Any inquiry on the program

requirements and the admission process should be directed to the Director of Graduate Studies of the Department of Sociology.

- The percentile rankings of the three components of the Graduate Record Examination (GRE) must average (mean) at least 50 percent.
- A statement of goals and reasons for pursuing an advanced degree in sociology. It is helpful if applicants also address the field(s) of interest within sociology they may wish to pursue in their graduate studies.
- A sample of writing, preferably in the form of a term paper, an extensive essay, or a draft of a senior thesis. If the applicant has completed a master's degree, she or he may submit one or two chapters from the master's thesis. Please do not submit a copy of the entire master's thesis.
- Three letters of recommendation.
- Undergraduate and graduate transcripts, if applicable.
- TOEFL/IELTS scores, if applicable.

Degree Requirements

36 total credit hours pre-residency

Core requirements

- SOC 681 QUANTITATIVE ANALYSIS I
- SOC 781 QUANTITATIVE DATA ANALYSIS II
- SOC 651 CLASSICAL SOCIOLOGICAL THEORY
- SOC 751 CONTEMPORARY SOCIOLOGICAL THEORY
- SOC 680 SOCIAL INVESTIGATION

Students are also required to take an addition 6 credit hours of social science research methods from a wide selection of approved courses.

Of the 15 hours of electives, 12 must be sociology courses and 12 must be in the student's area of specialization.

Ph.D. students must also pass a comprehensive exam, qualifying exam, dissertation prospectus defense, and dissertation defense.

<https://soc.as.uky.edu/sociology-graduate-program>

Special Education, PhD

The goal of the Special Education Leadership Personnel Preparation Program is to prepare students to assume positions as educators, researchers, and scholars in higher education settings. The program leads to the Doctor of Philosophy in Education degree (Ph.D.).

Students in the Ph.D. in the Department of Early Childhood, Special Education, and Counselor Education may select program focus areas in applied behavior analysis, assistive technology, learning and behavior disorders, moderate and severe disabilities, and interdisciplinary early childhood education. There is a formal option in Counselor Education. See the Counselor Education Doctoral Program that offers a Departmental Ph.D. degree with a formal option in Counselor Education, Research, and Policy.

Admission Requirements

Admission requirements for the Ph.D. program include:

- A minimum undergraduate cumulative grade point average of 2.75.
- Combined scores on the verbal and quantitative portions of the Graduate Record Examination (GRE) of 300 (current scale) or 1000 (prior scale).
- A fifth-year certification OR a master's degree in special education, interdisciplinary early childhood education, or counselor education with a minimum grade point average of 3.5.
- A minimum of three (3) years of successful experience in special education or related field.
- At least four (4) positive recommendations attesting to the candidate's ability as a professional with potential for success in doctoral study.
- A statement of the applicant's objectives for completing a doctoral program.
- A personal statement or brief autobiographical statement of the applicant.
- A sample of the applicant's academic or professional writing.

If an applicant meets these criteria and appears to have the background, academic record, experience, and professional objectives that are consistent with Departmental expectations, the person is invited to campus to interview with faculty and to meet current doctoral students. If the candidate is unable to visit the campus, arrangements can be made for telephone or web-conference interviews with members of the Department's Graduate Admissions and Standards Committee (GASC). However, it is highly recommended that applicants visit campus.

The GASC then makes a decision about admission. If all criteria are met, a recommendation is forwarded to the Graduate School via the Department's Director of Graduate Study (DGS). Typically, admission decisions are made no later than 30 days after the interviews have been completed.

Deadlines: Application deadlines are March 1 for Fall applications and October 1 for Spring applications.

Degree Requirements

The first phase of study (up to 18 semester hours) is considered the preliminary year. During this period, students are expected to demonstrate basic competencies in applied behavior analysis, assessment, general special education content, instructional strategies, and technology. They may do this by fulfilling the requirements of the required graduate core courses.

Each student is required to develop and maintain a portfolio with entries included from each course. Collectively, these entries should reflect the post-doctoral role within institutions of higher education and/or other services for which the student is preparing. Thus, entries will include but are not limited to: (a) developing training curricula, (b) teaching content and methods courses, (c) supervising practicum experiences, including student teaching, (d) advising students, (e) providing consultation and other services, (f) giving professional conference presentations, (g) conducting research, including writing scholarly publications, and (h) writing research and training grant proposals for extramural funding in special education. The student work is guided, during the first year, by a temporary advisor, who may be selected by the student with the approval of the Department's DGS. In the event that the student's choice of an advisor is not available, or if the student does not have a choice, the DGS will appoint a temporary advisor after consulting with the Department's GASC.

Students then select a faculty member to serve as a mentor. After obtaining the consent of a faculty member to serve as mentor, the student and mentor also select an Advisory Committee of three additional faculty members who will assist in the development and supervision of the student's program of study.

Coursework, independent study products, and practicum experiences are selected by the student's doctoral advisory committee to ensure that this level of specialization is appropriate for a person at the doctoral degree level. Following the guidelines adopted by the College of Education, the doctoral program must consist of a minimum of 42 credit hours past the master's degree. Most doctoral students take between 60 and 100 semester hours of coursework (including the master's degree).

Core requirements

Specific course requirements for individual students will vary according to each student's background and stated objectives. Competency lists that have been developed by faculty in the Department guide the selection of courses and related training experiences. However, each student must complete a graduate core (23 credits), coursework in a departmental area of emphasis consisting of at least 15 credits, coursework in a support area (a minimum of 15 credits), and a research block of courses (minimum of 21 credits). The coursework is divided among four areas:

1. Special education personnel preparation
2. An area of emphasis selected from the following:
 - Applied behavior analysis
 - Assistive technology
 - Interdisciplinary early childhood education
 - Learning and behavior disorders
 - Moderate and severe disabilities
3. A thematic support area from outside the department area of emphasis.

- A research block of courses.

Students complete required doctoral core requirements include the following courses:

- EDS 601 CONCEPTS AND PRINCIPLES OF APPLIED BEHAVIOR ANALYSIS (3) **or**
- CED 740 ADMINISTRATION, SUPERVISION AND PROGRAM EVALUATION IN REHABILITATION COUNSELING (3)
- EDS 633 SINGLE CASE RESEARCH METHODOLOGY (3) **or**
- CED 735 ADVANCED METHODS FOR TEACHING AND CONDUCTING RESEARCH IN COUNSELOR EDUCATION: FROM THEORY TO PRACTICE (3)
- EDS 701 SEMINAR FOR EDSCE LEADERSHIP PERSONNEL (1 credit each, 4 semesters)

- EDS 710 SEMINAR IN MILD DISABILITIES (3) **or**
- EDS 711 SEMINAR IN MODERATE AND SEVERE DISABILITIES (3) **or**
- IEC 709 SEMINAR IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION (3) **or**
- CED 711 SEMINAR IN ADVANCED REHABILITATION PRACTICES AND PROCEDURES (3)
- EDS 712 SEMINAR IN EDSCE PROFESSIONAL SERVICES (3)
- EDS 720 SEMINAR IN EDSCE TEACHER PREPARATION (3)
- EDS 721 PRACTICUM IN EDSCE PERSONNEL PREPARATION (3)
- EDS 767 DISSERTATION RESIDENCY CREDIT (3-9) EDS 767 is taken for a minimum of two credits per semester for two semesters (excluding summer terms) after successful completion of the qualifying exam

Electives

The student's electives are individually determined by the doctoral advisory committee.

<https://education.uky.edu/edsrc/eds/degrees-programs/doctorate/>

Statistics, PhD

The Department of Statistics offers programs of study leading to the degrees of Master of Science (Plan A or B available), Doctor of Philosophy, and Master of Applied Statistics (Online). The M.S. degree is professionally oriented for the student who plans a career in government, business or industry and is preparatory for the Ph.D. The Ph.D. program offers a broad training in both statistical theory and methods while affording options to suit the student's interests. The statistics Ph.D. is well-suited for academic, business, government and industrial positions. In addition to formal course work and research training, the advanced student has opportunities to gain valuable practical experience by participating in consulting activities under faculty supervision. Master of Applied Statistics is an innovative online professional graduate degree which is designed to train professional, practice-oriented statisticians who have both data analytic and computing skills.

Both, the M.S. and the Ph.D. program offer a Mathematical Statistics track, as well as a Biostatistics track. The latter tracks are designed for students who envision a future at the interface of Statistics and the Life Sciences.

Course work is available in areas associated with statistics such as biological modeling, probability, inference, experimental design and analysis, computational statistics, nonparametric methods, Bayesian analysis, mixed modeling, multivariate analysis, survival analysis, clinical trials, and many other selected topics of the student's choice.

The University of Kentucky is represented on the Committee on Statistics of the Southern Regional Education Board.

Admission Requirements

Students with an undergraduate major in any of the mathematical, physical, biological, social or applied sciences are encouraged to apply. The minimum GRE and GPA admissions requirements for the M.S. and Ph.D. programs in Statistics are the same as for the Graduate School. However, the number of admissions is limited and admissions decisions are made on a competitive basis. All M.S. applicants must have

successfully completed a three or four semester sequence in calculus and a course in linear algebra and have good communication skills. In addition, all Ph.D. applicants must have mastered the equivalent of MA 471G. All Master of Applied Statistics applicants must have completed two semesters of calculus and a course in statistical methodology. Students wishing to apply for teaching assistantships and/or fellowships must submit three letters of recommendation. Applicants wishing to be admitted directly to the Ph.D. program must have an M.S. in Statistics and the permission of the Director of Graduate Studies.

Please see the departmental website for up-to-date information and answers to frequently asked questions about the admissions process.

Degree Requirements

The core curriculum in statistics is designed to provide doctoral candidates with a firm foundation in probability theory, inference, and classical methodology. In addition, the theory and application of computational statistics, biostatistics, and state-of-the-art inferential procedures are an integral part of the core curriculum.

Students in the doctoral program in statistics will choose one of two areas of specialization, 1) mathematical statistics/probability or 2) biostatistics. The requirements for these areas of specialization are:

Mathematical Statistics/Probability

- STA 701 ADVANCED STATISTICAL INFERENCE I
- STA 703 ADVANCED PROBABILITY
- STA 705 ADVANCED COMPUTATIONAL INFERENCE
- STA 707 ADVANCED DATA ANALYSIS
- STA 702 ADVANCED STATISTICAL INFERENCE II

Biostatistics

- STA 701 ADVANCED STATISTICAL INFERENCE I
- STA 703 ADVANCED PROBABILITY
- STA 705 ADVANCED COMPUTATIONAL INFERENCE
- STA 707 ADVANCED DATA ANALYSIS
- STA 709 ADVANCED SURVIVAL ANALYSIS

All students must take an additional six elective courses chosen by the student and approved by the DGS. These courses must be chosen from among STA 612 , STA 616, STA 621 , STA 624 , STA 626 , STA 630 , STA 635 , STA 643 , STA 644 , STA 653 , STA 661 , STA 662 , STA 665 , CPH 631, CPH 636, and CPH 664. STA 695 will also be considered on a case-by-case basis. If a student completes both STA 702 and STA 709 , the student may choose their official track and count the non-required course as an elective. Note that STA 715 (reading course) may not be used to satisfy elective requirements. Students must successfully complete a common written exam over STA 701 and STA 703 plus respective prerequisites. A student who takes both STA 653 and CPH 664, may only receive credit towards the degree for one of these two courses.

Students must pass a uniform written exam over STA 701 and STA 703 plus respective prerequisites. This exam will normally be offered in January and students will usually sit for the written examination at the beginning of the Spring semester in the third year of the program. The uniform exam can be repeated once. After completion of tract course requirements and successful completion of the written exam, students must also successfully complete an oral qualifying exam which is scheduled through the Graduate School and administered by the student's advisory committee. A significant part of this exam is to be a dissertation proposal.

Areas of current research interest can be found by going to the Department of Statistics faculty web page <https://stat.as.uky.edu/>.

All students, master's and doctoral, will be required to take part in an internship program. This will usually consist of teaching (three or six semester hours) or an equivalent amount of work in a research assistantship working with researchers across campus.

Studies in Higher Education, PhD

The PhD Program Studies in Higher Education requires research on some aspect of higher education, broadly defined. Students may select an area of concentration from the history and philosophy of higher education, the socio-cultural study of higher education, legal and organizational study of higher education, or research, measurement, and evaluation in higher education. Ph.D. dissertations are expected to advance knowledge in the field and/or further develop existing theory.

In addition to the above areas of concentration, the Studies in Higher Education PhD also has two optional Specializations:

- A PhD Studies in Higher Education specialization in Institutional Research (SHED-IR) prepares students to identify information needs; collect, analyze, interpret, and report data and information for planning and evaluation; and assist organizations in utilizing these data and information to make informed decisions.
- A PhD Studies in Higher Education specialization in Diversity, Equity, & Inclusion (SHED-DEI) prepares students for high-level administrative positions in diversity, equity, and inclusiveness leadership in higher education settings. This specialization includes completion of a nine-credit Graduate Certificate in Senior Diversity Officer Leadership.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A master's degree or equivalent level of coursework
- A statement of purpose describing the student's intellectual and professional goals for completing the program. Applicants are advised to clearly indicate the areas of coursework and research they wish to pursue.
- For those wishing to specialize in Institutional Research or Diversity, Equity, & Inclusion, an additional application essay is required.

- Four letters of reference with at least two from referees familiar with the students' academic work
- Resume or Curriculum Vitae
- Writing sample demonstrating academic writing (e.g. chapter of master's thesis, course paper, scholarly essay)
- Application Deadlines October 1st and February 1st

Degree Requirements

- 43 Credit hours
- All EPE students are required to take EPE 601 PROSEMINAR (1 credit hour) during their first semester of study in the department.
- All PhD Students are required to complete 12 hours of research coursework chosen in consultation with their advisor
- All SHED doctoral students build a program of study consisting of the above 12 hours of research coursework, 18 hours of coursework in their concentration, and 12 hours of contextual study. All courses are chosen in consultation with their advisory committee. This individualized program provides both content and conceptual strength to identify compelling research questions in the field of higher education writ large. A specialization is not required.
- The SHED-Institutional Research Specialization includes EPE 560 ASSESSMENT AND SCHOOL DATA ANALYSIS, EPE 619 SURVEY RESEARCH METHODS IN EDUCATION (SUBTITLE REQUIRED), EPE 620 TOPICS AND METHODS OF EVALUATION, EPE 663 FIELD STUDIES IN EDUCATIONAL INSTITUTIONS or EPE 797 HISTORICAL RESEARCH ON EDUCATION, and an internship (EPE 790). These courses can be taken as part of the research requirement or concentration and will be complemented by the student's choice of electives.
- The SHED-Diversity Equity & Inclusion Specialization includes EPE 751 STRATEGY, STRUCTURE, & CHANGE MANAGEMENT FOR SENIOR DIVERSITY LEADERSHIP, EPE 752 POLICY & PROFESSIONAL PRACTICE FOR SENIOR DIVERSITY LEADERSHIP, and a choice of EDL 701, EDL 702, or EDL 703 courses on organizational change and leadership. These courses make up nine of the 18 hours of concentration.
- A student's program of study may vary from this structure with approval from their program committee.

Education.uky.edu/EPE

Toxicology and Cancer Biology, PhD

The Department of Toxicology and Cancer Biology is a multidisciplinary unit for research, graduate education, and professional training in the broad areas of Toxicology and Cancer Biology. The program was founded in 1969 in the Graduate School, as one of nation's first Ph.D. programs in Toxicology and moved to College of Medicine (COM) in 2004. Our education mission is to provide students with an education in

Toxicology and Cancer Biology that is based on an understanding of biochemistry, physiology, molecular/cell biology, genetics and metabolism, coupled with in-depth research experience on the mechanisms by which specific agents induce toxicity, and/or the basic cellular processes upon which environmental agents impact to cause disease. In addition, the department provides the only Master of Forensic Toxicology and Analytical Genetics (or degree of comparable nature) in the state and it is only the fifth such professional master's degree in the field of forensics in the nation.

The department is housed in the Health Sciences Research Building in the Medical Center within easy walking distance of all major research units and colleges. Excellent research support facilities are available, including transgenic mouse, macromolecular structure, mass spectrometry, nuclear magnetic resonance, proteomics, genomics, and metabolomics.

Our department consists of tenured/tenure track Core Faculty with a primary appointment in Toxicology and Cancer Biology, and is enhanced by faculty who have Joint Appointments in the department, but whose primary appointments are in Departments and Colleges across the University. The Department of Toxicology and Cancer Biology has graduated more than 150 PhDs in Toxicology who have gone on to careers in academia, government, such as the Environmental Protection Agency (EPA) and the Food and Drug Administration (FDA), and in the pharmaceutical and chemical industry. The department maintains a robust extramurally supported training environment, including an NIEHS T32 training grant for doctoral students in toxicology, which has been continuously funded since 1990 and has been renewed for funding until 2021.

The Ph.D. program in Toxicology is ranked in the top quartile in the National Research Council survey of doctoral programs in Toxicology. For more information on the Ph.D. program, please visit <https://toxicology.med.uky.edu/graduate-program>

Admission Requirements

Applicants must meet the following requirements for admission to the University of Kentucky Graduate School and the Toxicology and Cancer Biology program.

- An appropriate degree (e.g., Chemistry, Biological Sciences) from an accredited college or university.
- A minimum grade point average of 3.0 on a 4.0 scale.
- A Graduate Record Examination (GRE) score is not required.
- For international applicants, the minimum acceptable TOFEL score is 550 (paper-based), 213 (computer-based), or 79 (internet-based). The minimum IELTS score is 6.5.

More information on how to apply can be found here <https://toxicology.med.uky.edu/graduate-program>

Degree Requirements

The Ph.D. degree has no formal course requirements.

A proposed curriculum, prepared by the Chair of Advisory Committee (i.e., the student's mentor) in consultation with the student, should be approved by the student's Advisory Committee by December 15 in the students' second year of study.

Veterinary Science, PhD

The overall mission of the Veterinary Science graduate program is to train students to become creative and critical thinking scientists with the contemporary skills and knowledge to perform independent research and to effectively communicate their results. The primary goal of research in the Veterinary Science program is to improve our understanding of the biology of Equidae, with emphasis placed on investigating the causes and mechanisms that affect the production and performance of horses, regardless of breed.

Veterinary Science offers both the Master of Science (MS) and the Doctor of Philosophy (PhD) degrees, with specialization in infectious disease, parasitology, immunology, genetics, reproductive physiology, pharmacology, and musculoskeletal sciences. Each of these subspecialties has a general emphasis on the horse.

Admission Requirements

Applicants need a strong academic background with undergraduate course preparation in biology, chemistry and mathematics. Students accepted into the program should have an appropriate degree (i.e., in a STEM discipline) from an accredited institution, a minimum grade point average (GPA) of 3.0 on a 4.0 scale and a combined score (verbal plus quantitative) on the Graduate Record Examination (GRE) of not less than 300. Applicants with lesser qualifications will be accepted only on the recommendation of a graduate faculty member who is willing to support financially and serve as the research advisor for the student and with the approval of our full graduate faculty.

Degree Requirements

Students enrolled in the PhD program need to satisfy 36 credit hours of pre-qualifying residency, followed by at least two semesters of VS 767 (Dissertation Residency Credit; 2 credit hours/semester). For students with an earned Master's or DVM (or equivalent), up to 18 of the 36-hour pre-qualifying requirement may be waived at the discretion of the student's advisory committee, the DGS, and the Dean of the Graduate School.

Students pursuing both the MS and PhD in Veterinary Science must take two semesters of graduate-level biochemistry/molecular/cell biology (selected from CHE 550 & CHE 552 OR IBS 601, IBS 602, IBS 603, IBS 606) and one semester of graduate-level statistics (STA 570 or STA 580) or demonstrate equivalent coursework completed elsewhere. Students in the MS program must enroll in VS 770, Departmental Seminar, and give a presentation in at least one semester. Students in the PhD program must enroll in VS 770 and give presentations in at least 2 semesters. As well, VS 600, Ethics in Scientific Research, is strongly recommended.

Any additional coursework is determined by each student in concert with the major advisor and the PhD advisory committee.

<http://vetsci.ca.uky.edu/content/graduate-education>

Specialist in Education

Education - Special Education, EDS

Specialist Degree (Ed.S.) programs are individually planned for an in-depth study in an area of special education. In addition to coursework, the program requires a research project with a written product for completion. On occasion, students seeking a doctorate degree elect to first earn a specialist degree in order to gain research experiences prior to conducting a dissertation. Other individuals use the specialist degree program to meet Rank I teacher certification requirements.

Additional individual objectives may be appropriate for this degree. Individuals interested in this program should contact the department's Director of Graduate Studies for Special Education.

Admission Requirements

Program applicants must meet the following prerequisites:

- Completion of a master's degree,
- A 3.4 GPA or higher on all graduate work,
- Meet the requirements for a teaching certificate or have credentials appropriate to the field of specialization, and
- Have completed at least 30 semester hours in courses in education (graduate and undergraduate).

Degree Requirements

The student must earn a minimum of 30 credit hours of graduate work beyond the master's degree, of which at least 15 must be in courses numbered 600 or above.

A departmental committee is responsible for helping students plan individual programs. The program should contribute to specialization in a field.

The student must complete an independent research project (equal to 3 but not to exceed 6 credit hours) and submit a written report, a copy of which is to be filed with the department directing the research.

With the approval of the Director of Graduate Studies and the Dean of the Graduate School, the student may transfer a maximum of 9 credit hours earned beyond the master's degree from an accredited institution that is approved to offer work above the master's level.

The final examination required of all candidates is administered by an examining committee consisting of at least three qualified members recommended by the adviser and the Director of Graduate Studies and appointed by the Dean of the Graduate School.

Educational Leadership, EDS

- The Specialist in Education (EdS) is a flexible, online degree program designed for educators to advance their careers in leadership of learning systems. The degree consists of 30 credit hours of leadership courses amongst 3 tracks. The courses throughout the program are available online and available to educators both in Kentucky and throughout the world. Kentucky students in the EdS program may achieve either Rank II or Rank I designations through the Education Professional Standards Board.
- Completion of the Teacher Leadership track leads to a letter of eligibility for the Teacher Leader Endorsement from the Education Professional Standards Board.
- Completion of the Principal track leads to a letter of eligibility for the Advanced Educational Leadership Certification from the Educational Professional Standards Board.
- A general educational leadership track (non-licensure) is also available for students outside Kentucky and those choosing a non-licensure option.

Admission Requirements

- Earned Masters, preferably education-based, from a fully accredited institution with a 3.0 GPA on a 4.0 scale.
- Transcripts from previous post-secondary institutions
- Professional Resume
- Personal Statement
- Writing Sample
- (If pursuing licensure) A copy of a valid K-12 teaching certificate
- (If pursuing licensure) Minimum required years of teaching experience
- (If Principal track) 2 Recommendations, including one from a district-level administrator

Degree Requirements

- 30 Credits, 10 courses, typically earned over 5 semesters including summer.
- Teacher Leader track: 15 credits, 5 Course, Core + 15 credit, 5 course electives.
- Principal track: 24 credits, 8 course, Core + 6 credit electives.
- Portfolio-based capstone final defense

Programs by College

College of Agriculture, Food and Environment

College of Arts and Sciences

College of Communication and Information

College of Dentistry

College of Design

College of Education

College of Engineering

College of Fine Arts

College of Health Sciences

College of Medicine

College of Nursing

College of Pharmacy

College of Public Health

College of Social Work

Gatton College of Business and Economics

The Graduate School

- Martin School of Public Policy and Administration
- Patterson School of Diplomacy and International Commerce

Course Descriptions

The number system reflects the level of course material and associated rigor. With the exception of upper graduate level and professional courses, any prerequisite restrictions limiting the level of a student accepted into a course shall be specified in a course prerequisites. Courses shall be numbered as follows:

400G-499G — Senior and first year graduate level course; graduate credit for non-majors only;

500-599 — First year graduate level course; undergraduate and graduate credit;

600-799 — Upper graduate level course; open only to graduate students;

800-999 — Professional Programs course; open only to students in professional colleges and to students in other colleges offering professional degrees as defined by the Council on Postsecondary Education.

Courses may be approved for variable credits, e.g., (1-3), (2-6), etc. In no case, however, may the total credits exceed the maximum number authorized for the course.

Repeated registration in a course may be allowed if the course description carries the statement: "May be repeated to maximum of ... credits." However, a student may enroll only one time in a specific course during a given semester. Courses with the same number are not considered to be the same course if different identifying titles are an integral part of the record.

Unless indicated in the course description, the number of credits for a course indicates the number of lecture or discussion or class hours.

Below is a list of all graduate level courses (400G and above).

A&S 500 - SPECIAL COURSE (SUBTITLE REQUIRED)

A&S 600 - PERSPECTIVES ON DIVERSITY AND INCLUSION

A-E 515 - INTRODUCTION TO ART THERAPY

A-E 538 - ADVANCED ARTS AND CRAFTS IN THE ELEMENTARY SCHOOL

A-E 545 - TOPICAL STUDIES IN ART EDUCATION (SUBTITLE REQUIRED)

A-E 550 - COMMUNITY ART EDUCATION

A-E 560 - MUSEUM EDUCATION

A-E 576 - ART IN MIDDLE SCHOOLS

A-E 577 - ART IN SECONDARY SCHOOLS

A-E 578 - ART IN ELEMENTARY SCHOOLS

A-E 579 - ARTS AND HUMANITIES IN ART EDUCATION

A-E 645 - TOPICAL RESEARCH IN ART EDUCATION (SUBTITLE REQUIRED)

A-E 665 - ISSUES IN ART EDUCATION

A-E 670 - SCHOOL AND COMMUNITY ART

A-E 675 - AESTHETICS AND DESIGN

A-E 680 - HISTORY OF ART EDUCATION

A-E 685 - ACTION RESEARCH IN ART EDUCATION

A-E 686 - TEACHER LEADERSHIP IN ART EDUCATION

A-E 695 - INDEPENDENT WORK: ART EDUCATION

A-E 748 - MASTER'S THESIS RESEARCH

A-H 501 - MUSEUM STUDIES I: INTRODUCTION

A-H 502 - MUSEUM STUDIES II: INTERNSHIP

A-H 504 - PRACTICAL ISSUES IN ART HISTORY: SR

A-H 510 - ART HISTORY AND VISUAL STUDIES HONORS THESIS

A-H 524 - THEORY AND METHODS: SUBTITLE REQUIRED

A-H 525 - STUDIES IN GENRES AND MEDIA: (SUBTITLE REQUIRED)

A-H 526 - ART AND THE ARTIST IN SOCIETY (SUBTITLE REQUIRED)

A-H 527 - INTERDISCIPLINARY APPROACHES: SUBTITLE REQUIRED

**A-H 528 - TOPICAL SEMINAR IN ART HISTORY AND VISUAL STUDIES: SUBTITLE
REQUIRED**

**A-H 529 - TOPICAL SEMINAR IN ARCHITECTURAL OR DESIGN HISTORY:
SUBTITLE REQUIRED**

A-H 555 - METHODS IN ART HISTORY

A-H 592 - AESTHETICS

A-H 598 - COORDINATE STUDY

A-H 599 - EXPERIENTIAL ED IN A-H & VISUAL STUDIES

A-H 604 - PRACTICAL PROBLEMS IN ART HISTORY: (SR)

A-H 624 - THEORY AND METHODS: SUBTITLE REQUIRED

A-H 625 - PROBLEMS IN GENRES AND MEDIA: (SUBTITLE REQUIRED)

A-H 626 - THE ARTIST IN SOCIETY: (SUBTITLE REQUIRED)

A-H 627 - INTERDISCIPLINARY APPROACHES TO ART HISTORY: (SUBTITLE REQUIRED)

A-H 628 - ART HISTORY & VISUAL STUDIES TOPICS SEMINAR (SUBTITLE REQUIRED)

A-H 629 - ART HISTORY TOPICAL SEMINAR IN ARCHITECTURAL OR DESIGN HISTORY: SUBTITLE REQUIRED

A-H 650 - ADVANCED CONTEMPORARY ART HISTORY

A-H 655 - ADVANCED RESEARCH METHODS IN ART HISTORY AND VISUAL STUDIES

A-H 738 - MASTERS PORTFOLIO PREPARATION

A-H 748 - MASTER'S THESIS RESEARCH

A-H 768 - THESIS FORMULATION AND PREPARATION IN ART HISTORY

A-H 780 - INDEPENDENT WORK: ART HISTORY

A-S 510 - PAINTING III

A-S 511 - PAINTING IV

A-S 520 - PRINTMEDIA:TOPICS (SUBTITLE REQUIRED)

A-S 521 - PRINTMEDIA: CONTEMPORARY PRACTICES

A-S 530 - ADVANCED DRAWING

A-S 535 - ADVANCED DIGITAL DRAWING AND ILLUSTRATION

A-S 540 - GRAPHIC DESIGN: PUBLICATION DESIGN

A-S 541 - GRAPHIC DESIGN: ADVANCED DESIGN

A-S 546 - INTERMEDIA STUDIO: SUBTITLE REQUIRED

A-S 547 - DIGITAL MEDIA PROJECTS CAPSTONE

A-S 550 - ADVANCED FIBER I

A-S 551 - ADVANCED FIBER II

A-S 552 - ADVANCED WOVEN STRUCTURES

A-S 560 - ADVANCED HOT METALS: FABRICATION

A-S 561 - ADVANCED HOT METALS: CASTING

A-S 564 - DIGITAL FABRICATION PROJECTS (SUBTITLE REQUIRED)

A-S 567 - ADVANCED TOPICS IN DIGITAL FABRICATION (SUBTITLE REQUIRED)

A-S 570 - CERAMICS III

A-S 571 - CERAMICS IV

A-S 580 - PHOTOGRAPHY PROJECTS I

A-S 581 - PHOTOGRAPHY PROJECTS II

A-S 584 - COLOR PHOTOGRAPHY II

A-S 585 - INDUSTRY PATHWAYS AND PRACTICE

A-S 586 - ALTERNATIVE PROCESSES PHOTOGRAPHY II

A-S 587 - ADVANCED TOPICS IN PHOTOGRAPHY (SUBTITLE REQUIRED)

A-S 596 - WORKSHOP

A-S 610 - PAINTING V

A-S 611 - PAINTING VI

A-S 620 - PRINTMAKING V

A-S 621 - PRINTMAKING VI

A-S 630 - GRADUATE DRAWING

A-S 646 - ADVANCED INTERMEDIA STUDIO: SUBTITLE REQUIRED

A-S 650 - ADVANCED FIBER III

A-S 651 - ADVANCED FIBER IV

A-S 660 - SCULPTURE V

A-S 661 - SCULPTURE VI

A-S 670 - CERAMICS V

A-S 671 - CERAMICS VI

A-S 680 - PHOTOGRAPHY V

A-S 681 - PHOTOGRAPHY VI

A-S 687 - GRADUATE TOPICS IN PHOTOGRAPHY (SUBTITLE REQUIRED)

A-S 710 - PROBLEMS IN PAINTING

A-S 720 - PROBLEMS IN PRINTMAKING

A-S 730 - PROBLEMS IN DRAWING

A-S 740 - PROBLEMS IN FIBER

A-S 750 - PROBLEMS IN SCULPTURE

A-S 770 - PROBLEMS IN CERAMICS

A-S 777 - PROBLEMS IN INTERMEDIA

A-S 779 - PROBLEMS IN PHOTOGRAPHY

A-S 780 - PROBLEMS IN DESIGN

A-S 793 - GRADUATE STUDIO SEMINAR

A-S 795 - INDEPENDENT RESEARCH

A-S 799 - M.F.A. STUDIO THESIS PROJECT

AAD 475G - MANAGING YOUR ARTISTIC CAREER

AAD 500 - THE ARTS AND ARTISTS IN SOCIETY

AAD 502 - SEMINAR IN ARTS ADMINISTRATION: SUBTITLE REQUIRED

AAD 521 - NONPROFIT BOARD GOVERNANCE

AAD 531 - SOCIAL MEDIA MARKETING, PROMOTION, AND BRANDING FOR ARTS ORGANIZATIONS

AAD 532 - LIVE STREAMING EVENTS AND INTERACTIVITY FOR ARTS ORGANIZATIONS

AAD 535 - BRAND DEVELOPMENT FOR ARTS ORGANIZATIONS

AAD 542 - GRANT WRITING FOR NONPROFIT ORGANIZATIONS

AAD 555 - FUNDRAISING: IDENTIFYING AND CULTIVATING INDIVIDUAL DONORS

AAD 560 - TEACHING ARTISTRY FOR SCHOOL-BASED PROGRAMS

AAD 565 - COMMUNITY ENGAGEMENT IN THE ARTS

AAD 585 - ARTS EMERGENCY MANAGEMENT: CREATING A RESILIENT ORGANIZATION

AAD 600 - ARTS ADMINISTRATION TECHNOLOGIES

AAD 620 - MANAGEMENT AND LEADERSHIP IN THE ARTS

AAD 625 - FINANCIAL MGMT FOR ARTS ORGANIZATIONS

AAD 626 - FINANCIAL MANAGEMENT FOR FUNDRAISING

AAD 629 - ORGANIZATION THEORIES IN ARTS ADMINISTRATION

AAD 630 - MARKETING RESEARCH AND PLANNING FOR ARTS ORGANIZATIONS

AAD 640 - PRINCIPLES OF FUNDRAISING

AAD 650 - THE ARTS AND THE LAW

AAD 655 - CULTURAL POLICY

AAD 660 - SOCIAL AND CULTURAL ENTREPRENEURIALISM

AAD 665 - CREATIVE CITIES, CREATIVE PLACEMAKING, & COMMUNITY VIBRANCY

AAD 690 - CREATING & EVALUATING NEW ARTS PROGRAMS

AAD 695 - INDEPENDENT STUDY IN ARTS ADMINISTRATION

AAD 699 - INTERNSHIP IN ARTS ADMINISTRATION

AAD 720 - SUSTAINING LEADERSHIP IN THE ARTS

AAD 730 - MARKETING STRATEGIES & APP FOR ARTS ORGS

AAD 740 - FUNDRAISING TECHNIQUES

AAD 745 - VENTURE PHILANTHROPY

AAD 767 - ARTS ADMINISTRATION DISSERTATION RESIDENCY CREDIT

AAD 790 - ARTS AND CULTURE RESEARCH STUDIES

AAD 795 - ARTS ADMINISTRATION RESEARCH PLANNING & PROPOSAL WRITING

AAS 417G - SURVEY OF SUB-SAHARAN POLITICS

AAS 500 - AFRICAN AMERICAN LIVES

AAS 523 - SOCIAL PERSPECTIVES ON RACISM AND ETHNIC PREJUDICES IN AMERICA

AAS 545 - PSYCHOLOGY OF THE BLACK EXPERIENCE

AAS 550 - EDUCATION IN A CULTURALLY DIVERSE SOCIETY

AAS 560 - RACE, ETHNICITY, AND POLITICS

AAS 587 - THE CIVIL RIGHTS MOVEMENT IN THE U.S. SINCE 1930

AAS 600 - THE INTELLECTUAL HISTORY OF AFRICAN AMERICANS

AAS 601 - THEORIES, PERSPECTIVES, TRENDS & ISSUES IN MULTICULTURAL EDUCATION

AAS 616 - MULTICULTURAL PSYCHOLOGY

AAS 635 - SEMINAR IN SOCIAL INEQUALITIES

AAS 654 - READINGS IN MODERN AFRICAN-AMERICAN HISTORY

AAS 656 - BLACK AMERICAN LITERATURE

AAS 657 - RACE RELATIONS IN THE UNITED STATES

AAS 720 - SOCIAL WORK PERSPECTIVES ON HUMAN AND CULTURAL DIVERSITY

ABT 461G - INTRODUCTION TO POPULATION GENETICS

ABT 505 - EVOLUTION IN AGRICULTURE, MEDICINE AND CONSERVATION BIOLOGY

ACC 507 - ADVANCED TOPICS IN TAXATION

ACC 508 - ADVANCED COST MANAGEMENT

ACC 516 - ADVANCED TOPICS IN FINANCIAL REPORTING

ACC 520 - FINANCIAL PLANNING FOR ACCOUNTING PROFESSIONALS

ACC 555 - FORENSIC ACCOUNTING & FRAUD EXAMINATION

ACC 590 - SPECIAL TOPICS IN ACCOUNTING:(SUBTITLE REQUIRED)

ACC 601 - RESEARCH IN ACCOUNTING THEORY

ACC 603 - ATTEST FUNCTION

ACC 605 - INTERNAL AUDITING

ACC 610 - NOT-FOR-PROFIT AND REGULATORY ACCOUNTING

ACC 617 - SELECTED TOPICS IN TAXATION

ACC 619 - INDEPENDENT STUDY IN ACCOUNTING

ACC 621 - UNDERSTANDING FINANCIAL STATEMENTS

ACC 624 - ENTERPRISE INFORMATION AND CONTROL SYSTEMS

ACC 628 - FINANCIAL/MANAGERIAL ACCOUNTING

ACC 637 - TAXATION OF FLOW-THROUGH ENTITIES

ACC 647 - MULTIJURISDICTIONAL TAXATION

ACC 700 - TOPICAL SEMINAR IN ACCOUNTING RESEARCH

ACC 790 - DOCTORAL COLLOQUIUM - ACCOUNTANCY

ACC 795 - INDEPENDENT STUDY IN ACCOUNTING

AEC 441G - AGRICULTURAL FINANCIAL MANAGEMENT

AEC 445G - INTRODUCTION TO RESOURCE AND ENVIRONMENTAL ECONOMICS

AEC 473G - ECONOMIC DEVELOPMENT

AEC 500 - ADVANCED TOPICS IN AGRICULTURAL ECONOMICS: (SR)

AEC 503 - PRICE THEORY AND APPLICATIONS

AEC 510 - INTERNATIONAL TRADE AND AGRICULTURAL MARKETING

AEC 531 - AGRICULTURAL PRICE ANALYSIS

AEC 532 - AGRICULTURAL AND FOOD POLICY

AEC 545 - RESOURCE AND ENVIRONMENTAL ECONOMICS

AEC 580 - SPECIAL PROBLEMS IN AGRICULTURAL ECONOMICS

AEC 590 - INTRODUCTION TO QUANTITATIVE ECONOMICS I.

AEC 606 - ADVANCED AGRICULTURAL MARKETING

AEC 610 - INTERNATIONAL TRADE IN AGRICULTURAL PRODUCTS

AEC 620 - ADVANCED PRODUCTION ECONOMICS I

AEC 622 - ADVANCED AGRIBUSINESS MANAGEMENT STRATEGIES

AEC 624 - ADVANCED QUANTITATIVE METHODS IN AGRICULTURAL ECONOMICS

AEC 626 - AGRICULTURE AND ECONOMIC DEVELOPMENT

AEC 640 - ADVANCED AGRICULTURAL POLICY

AEC 645 - NATURAL RESOURCE ECONOMICS

AEC 653 - LOCAL ECONOMIC DEVELOPMENT

AEC 661 - PROGRAMMING MODELS IN AGRICULTURAL ECONOMICS

AEC 662 - QUANTITATIVE METHODS IN RENEWABLE AND NONRENEWABLE RESOURCE MANAGEMENT

AEC 691 - SOCIOLOGY OF FOOD AND AGRICULTURE

AEC 724 - APPLIED ECONOMETRICS

AEC 745 - ENVIRONMENTAL AND NATURAL RESOURCE ECONOMICS

AEC 748 - MASTER'S THESIS RESEARCH

AEC 749 - DISSERTATION RESEARCH

AEC 767 - DISSERTATION RESIDENCY CREDIT

AEC 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

AEC 769 - RESIDENCE CREDIT FOR DOCTOR'S DEGREE

AEC 780 - SPECIAL PROBLEMS IN AGRICULTURAL ECONOMICS

AEC 790 - RESEARCH WORK IN AGRICULTURE ECONOMICS

AEC 796 - SEMINAR (SUBTITLE REQUIRED)

AED 580 - FOUNDATIONS OF TEACHING CAREER AND TECHNICAL EDUCATION

AED 583 - DESIGNING CURRICULUM AND ASSESSMENT IN CAREER AND TECHNICAL EDUCATION

AED 586 - METHODS OF TEACHING CAREER AND TECHNICAL EDUCATION

AED 590 - PROBLEMS IN CAREER AND TECHNICAL EDUCATION

AED 592 - TEACHING EXPERIENCE IN CAREER AND TECHNICAL EDUCATION

AED 670 - ADVANCED METHODS IN TEACHING CAREER AND TECHNICAL EDUCATION

AED 671 - YOUTH ORGANIZATIONS IN CAREER AND TECHNICAL EDUCATION

AED 695 - SPECIAL PROBLEMS IN CAREER AND TECHNICAL EDUCATION

AED 779 - SEMINAR IN CAREER AND TECHNICAL EDUCATION

AED 799 - RESEARCH IN CAREER AND TECHNICAL EDUCATION

AEN 461G - BIOMETEOROLOGY

AER 501 - MECHANICAL DESIGN WITH FINITE ELEMENT METHODS

AER 506 - MECHANICS OF COMPOSITE MATERIALS

AER 510 - VIBRO-ACOUSTIC DESIGN IN MECHANICAL SYSTEMS

AER 513 - MECHANICAL VIBRATIONS

AER 514 - COMPUTATIONAL TECHNIQUES IN MECHANICAL SYSTEM ANALYSIS

AER 516 - SYSTEMS ENGINEERING

AER 530 - GAS DYNAMICS

AER 531 - FLUID DYNAMICS I

AER 532 - ADVANCED STRENGTH OF MATERIALS

AER 545 - AIRCRAFT CONTROL AND SIMULATION

AER 548 - AERODYNAMICS OF TURBOMACHINERY

AER 563 - BASIC COMBUSTION PHENOMENA

AER 565 - SCALE MODELING IN ENGINEERING

AER 590 - APPLIED CFD AND NUMERICAL HEAT TRANSFER

AER 599 - TOPICS IN AEROSPACE ENGINEERING (SUBTITLE REQUIRED)

AER 613 - NONLINEAR OSCILLATIONS

AER 620 - ADVANCED ENGINEERING THERMODYNAMICS I

AER 629 - TRANSPORT IN POROUS MEDIA

AER 631 - FLUID DYNAMICS II

AER 632 - HYPERSONICS

AER 634 - TURBULENT FLOWS

AER 640 - ADVANCED MEASUREMENT TECHNIQUES

AER 641 - FOUNDATIONS OF SOLID MECHANICS

AER 644 - ADVANCED DYNAMICS I

AER 645 - ADVANCED CONTROL SYSTEM ANALYSIS

AER 647 - SYSTEM OPTIMIZATION I

AER 672 - NONLINEAR SYSTEMS & CONTROL

AER 674 - ROBUST CONTROL

AER 676 - ROBOT MODELING AND CONTROL

AER 691 - CFD I - INCOMPRESSIBLE FLOWS

AER 692 - CFD II - COMPRESSIBLE FLOWS

AER 699 - TOPICS IN AEROSPACE ENGINEERING (SUBTITLE REQUIRED)

AER 748 - MASTER'S THESIS RESEARCH

AER 749 - DISSERTATION RESEARCH

AER 767 - DISSERTATION RESIDENCY CREDIT

AER 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

AER 769 - RESIDENCE CREDIT FOR DOCTOR'S DEGREE

AER 780 - SPECIAL PROBLEMS IN AEROSPACE ENGINEERING

AER 790 - RESEARCH IN AEROSPACE ENGINEERING

AER 799 - AEROSPACE ENGINEERING GRADUATE SEMINAR

AES 416G - COVER CROPS IN AGROECOSYSTEMS

AH1 582 - ANESTHESIOLOGY BOWMAN GRAY SCH MED

AH1 584 - ANESTHESIOLOGY @ UNIV OF N C CHAPEL HILL

AH1 601 - ANESTHESIOLOGY @ UNIV OF CIN

AH1 605 - ANESTHESIOLOGY WRIGHT ST MED CTR

AH1 611 - ANESTHESIOLOGY @ WRIGHT PATTERSON AFB

AH1 669 - ANESTHESIOLOGY @ UNIV PITTSBURGH

AH1 680 - ANESTHESIOLOGY MED U S CAROLINA

AH1 709 - ANESTHESIOLOGY @ UNIV TN MEMPHIS

AH1 726 - ANESTHESIOLOGY UNIV TX HOUSTON

AH1 730 - ANESTHESIOLOGY WILFORD HALL MED CTR

AH1 739 - ANESTHESIOLOGY LACKLAND AFB SAN AN

AH1 780 - ANESTHESIOLOGY UNIV VIRGINIA

AH1 890 - ANESTHEISOLOGY OFF-SITE

AH1 906 - ANESTHESIOLOGY QINGDAO UNIV CHINA

AHP 840 - ETHICS IN HEALTH PRACTICE

AIS 495G - ADVANCED INDEPENDENT WORK IN ARABIC/ISLAMIC STUDIES

AN 403G - PRODUCTION AND INVENTORY SYSTEMS

AN 406G - PRODUCTIVITY AND QUALITY MANAGEMENT

AN 420G - BUSINESS DATA MINING

AN 440G - TOPICS IN ANALYTICS

AN 450G - BUSINESS ANALYTICS STRATEGY AND APPLICATIONS

ANA 410G - NEUROBIOLOGY OF BRAIN AND SPINAL CORD DISORDERS

ANA 417G - FUNCTIONAL HUMAN NEUROANATOMY

ANA 503 - INDEPENDENT WORK IN ANATOMY

ANA 511 - INTRODUCTION TO HUMAN ANATOMY

ANA 512 - MICROSCOPY AND ULTRASTRUCTURE

ANA 516 - SELECTED TOPICS IN ADVANCED NEUROSCIENCE

ANA 530 - COMBINED HISTOLOGY AND SPECIAL ORAL MICROANATOMY

ANA 534 - ANATOMY, EMBRYOLOGY AND NEUROANATOMY

ANA 536 - HUMAN EMBRYOLOGY, AN ABBREVIATED COURSE

ANA 600 - SEMINAR IN ANATOMY

ANA 605 - NEUROBIOLOGY OF CNS INJURY AND REPAIR

ANA 609 - EDUCATIONAL STRATEGIES IN THE ANATOMICAL SCIENCES

ANA 611 - REGIONAL HUMAN ANATOMY

ANA 612 - BIOLOGY OF AGING

ANA 613 - BEHAVIORAL ECOLOGY AND COMPARATIVE NEUROBIOLOGY

**ANA 614 - TECHNIQUES IN BEHAVIORAL ECOLOGY AND COMPARATIVE
NEUROBIOLOGY**

ANA 625 - INTRODUCTION TO FUNCTIONAL MRI

ANA 631 - ADVANCED HUMAN ANATOMY

ANA 636 - ADVANCED NEUROSCIENCE

ANA 638 - DEVELOPMENTAL NEUROBIOLOGY

ANA 655 - INTRODUCTION TO MAGNETIC RESONANCE IMAGING

ANA 660 - BIOLOGY OF REPRODUCTION

ANA 662 - ULTRASTRUCTURAL ANATOMY

ANA 710 - AGING OF THE NERVOUS SYSTEM

ANA 748 - MASTER'S THESIS RESEARCH

ANA 749 - DISSERTATION RESEARCH

ANA 767 - DISSERTATION RESIDENCY CREDIT

ANA 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

ANA 769 - RESIDENCE CREDIT FOR DOCTOR'S DEGREE

ANA 780 - SPECIAL TOPICS IN NEUROBIOLOGY

ANA 790 - RESEARCH IN ANATOMY

ANA 801 - HISTOLOGY FOR PHYSICAL THERAPY STUDENTS

ANA 802 - NEUROANATOMY FOR PHYSICAL THERAPY STUDENTS

ANA 809 - ANATOMY: HISTORY, MEDICINE, AND ART

ANA 811 - HUMAN ANATOMY FOR ALLIED HEALTH PROFESSIONS

ANA 813 - DEVELOPMENTAL ANATOMY FOR PHYSICAL THERAPY STUDENTS

ANA 814 - HUMAN STRUCTURE/GROSS ANATOMY

ANA 815 - FIRST-YEAR ELECTIVE, ANATOMY

ANA 825 - SECOND-YEAR ELECTIVE, ANATOMY

ANA 850 - ELECTIVE: APPLIED HUMAN ANATOMY

ANA 851 - RESEARCH IN ANATOMY

ANA 860 - IND RES IN ANATOMY

ANS 801 - INTRODUCTION TO THE OPERATING ROOM: AN ANESTHESIOLOGIST'S PERSPECTIVE

ANS 815 - FIRST-YEAR ELECTIVE, ANESTHESIOLOGY

ANS 825 - SECOND-YEAR ELECTIVE, ANESTHESIOLOGY

ANS 842 - ADVANCED CLINICAL PHARMACOLOGY AND ANESTHESIOLOGY

ANS 849 - ELECTIVE: EXTRAMURAL ROTATION IN ANESTHESIOLOGY

ANS 850 - ELECTIVE: INTRODUCTION TO ANESTHESIOLOGY

ANS 851 - ELECTIVE: CRITICAL CARE ANESTHESIOLOGY

ANS 852 - ELECTIVE: RESEARCH IN ANESTHESIOLOGY

ANS 853 - ELECTIVE: PAIN MANAGEMENT

ANS 854 - ELECTIVE: ADVANCED ANESTHESIOLOGY

ANS 890 - ELECTIVE: ANESTHESIOLOGY OFF-SITE

ANS 901 - COMMUNITY PAIN MANAGEMENT AT MOREHEAD

ANS 902 - COMMUNITY ANESTHESIA AT MOREHEAD

ANS 931 - ELECTIVE: CLINICAL CLERKSHIP IN ANESTHESIOLOGY IN BOWLING GREEN

ANS 932 - ELECTIVE: PAIN MANAGEMENT IN BOWLING GREEN

ANS 999 - ANESTHESIOLOGY EXTRAMURAL

ANT 428G - CONTEMPORARY CULTURES AND SOCIETIES IN SOUTHEAST ASIA

ANT 470G - REGIONAL AMERICAN ETHNOGRAPHY

ANT 506 - SOCIOLINGUISTICS

ANT 507 - LINGUISTIC ANTHROPOLOGY

ANT 515 - PHONOLOGICAL ANALYSIS

ANT 516 - GRAMMATICAL TYPOLOGY

ANT 519 - HISTORICAL LINGUISTICS

ANT 525 - APPLIED ANTHROPOLOGY

ANT 526 - PSYCHOLOGICAL ANTHROPOLOGY

ANT 527 - CHILDREN AND FAMILY IN APPALACHIA

ANT 530 - ELITES IN CROSS-CULTURAL PERSPECTIVE

ANT 534 - SOCIOLOGY OF APPALACHIA

ANT 536 - GLOBAL APPALACHIA

ANT 541 - ARCHAEOLOGICAL METHOD AND THEORY

ANT 545 - HISTORICAL ARCHAEOLOGY

ANT 551 - BIOARCHAEOLOGY

ANT 555 - EASTERN NORTH AMERICAN ARCHAEOLOGY

ANT 580 - ADVANCED TOPICS IN ANTHROPOLOGY

ANT 581 - INDEPENDENT WORK IN ANTHROPOLOGY

ANT 582 - SENIOR INTEGRATIVE SEMINAR

ANT 585 - FIELD LABORATORY IN ARCHAEOLOGICAL RESEARCH

ANT 600 - PRACTICUM IN TEACHING ANTHROPOLOGY

ANT 601 - CULTURE & POWER

ANT 603 - HUMAN BIOLOGY IN CONTEXT OF SOCIOCULTURAL CHANGE

ANT 604 - SOCIAL ORGANIZATION, KINSHIP, IDENTITIES

ANT 607 - FOOD RELATED BEHAVIORS

ANT 608 - ANTHROPOLOGY OF FOOD AND NUTRITION

ANT 610 - HISTORY OF THEORY IN ANTHROPOLOGY

ANT 620 - TOPICS AND METHODS OF EVALUATION

ANT 621 - ADVANCED TOPICS AND METHODS OF EVALUATION

ANT 631 - RESEARCH ETHICS IN THE SOCIAL SCIENCES

ANT 637 - SOCIOCULTURAL DIMENSIONS OF ECONOMIC DEVELOPMENT

ANT 640 - SCIENCE, AGRICULTURE, AND DEVELOPMENT

ANT 641 - GENDER ISSUES IN DEVELOPMENT

ANT 645 - ANTHROPOLOGY AND EPIDEMIOLOGY

ANT 646 - GLOBAL HEALTH: PEOPLE, INSTITUTIONS AND CHANGE

ANT 650 - THEORY IN ARCHAEOLOGY

ANT 651 - ARCHAEOLOGICAL DATA ANALYSIS

ANT 652 - HOUSEHOLD, COMMUNITY, AND DEMOGRAPHIC ARCHAEOLOGY

ANT 653 - PREHISTORIC ECONOMICS

ANT 654 - ARCHAEOLOGY OF POLITICAL SYSTEMS

ANT 660 - ETHNOGRAPHIC RESEARCH

ANT 662 - RESEARCH DESIGN

ANT 664 - CULTURAL ISSUES IN MENTAL ILLNESS

ANT 680 - BUSINESS AND ORGANIZATIONAL CULTURES

ANT 681 - HEALTH CARE INEQUALITIES

ANT 691 - CULTURAL RESOURCE MANAGEMENT CLERKSHIP

ANT 724 - ANTHROPOLOGY OF THE STATE

ANT 725 - SEMINAR IN APPLIED ANTHROPOLOGY

ANT 731 - SEMINAR IN SOCIAL AND POLITICAL DYNAMICS

ANT 732 - SEMINAR IN ECOLOGICAL ANTHROPOLOGY

ANT 733 - SEMINAR IN SYMBOLS AND MEANING

ANT 734 - SEMINAR IN ECONOMIC ANTHROPOLOGY

ANT 736 - CULTURE, ENVIRONMENT AND DEVELOPMENT

ANT 737 - SOCIOCULTURAL THEORIES IN THE ANTHROPOLOGY OF GENDER

ANT 738 - SEMINAR IN REGIONAL ARCHAEOLOGY

ANT 748 - MASTER'S THESIS RESEARCH

ANT 749 - DISSERTATION RESEARCH

ANT 750 - GRADUATE FIELD STUDY IN ANTHROPOLOGY

ANT 760 - PRACTICUM IN APPLIED ANTHROPOLOGY

ANT 765 - ADVANCED SEMINAR IN MEDICAL ANTHROPOLOGY

ANT 766 - GENDER, ETHNICITY AND HEALTH

ANT 767 - DISSERTATION RESIDENCY CREDIT

ANT 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

ANT 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

ANT 770 - TOPICAL SEMINAR: (SUBTITLE REQUIRED)

ANT 774 - FOOD AND FOOD SECURITY IN A CHANGING WORLD

ANT 775 - CULTURES AND POLITICS OF REPRODUCTION

ANT 776 - SEMINAR IN DEPENDENCY BEHAVIOR

ANT 790 - RESEARCH PROBLEMS IN ANTHROPOLOGY

APP 500 - SPECIAL TOPICS IN APPALACHIAN STUDIES (SUBTITLE REQUIRED)

ARC 510 - GENERATIVE AND CRITICAL STRATEGIES

ARC 511 - HISTORY AND THEORY SEMINAR: PRE-20TH CENTURY

ARC 512 - HISTORY AND THEORY SEMINAR: MODERN (SUBTITLE REQUIRED)

ARC 513 - HISTORY AND THEORY SEMINAR: CONTEMPORARY (SUBTITLE REQUIRED)

ARC 514 - HISTORY AND THEORY SEMINAR: THEORY AND CRITICISM

ARC 515 - HISTORY AND THEORY SEMINAR: URBAN FORMS (SUBTITLE REQUIRED)

ARC 533 - STRUCTURAL DESIGN AND ANALYSIS II

ARC 534 - ADVANCED STUDIES IN STRUCTURAL SYSTEMS

ARC 550 - ACCELERATED DESIGN I

ARC 551 - ACCELERATED DESIGN II

ARC 584 - DESIGN OF TIMBER AND MASONRY STRUCTURES

ARC 599 - TOPICS IN ARCHITECTURE

ARC 631 - BUILDING SYSTEMS INTEGRATION

ARC 632 - SPECIAL TOPICS IN ENVIRONMENTAL CONTROLS

ARC 634 - ARCHITECTURAL DETAILING

ARC 641 - PROFESSIONAL PRACTICE

ARC 642 - PROFESSIONAL INTERNSHIP

ARC 658 - DESIGN STUDIO VIII

ARC 659 - DESIGN STUDIO IX

ARC 699 - TOPICS IN ARCHITECTURE

ARC 707 - DIGITAL MEDIA: HISTORY AND THEORY

ARC 709 - MASTER'S PROJECT IN DIGITAL VISUALIZATION

ARC 719 - MASTER'S PROJECT IN HISTORY/THEORY/CRITICISM

ARC 729 - MASTER'S PROJECT IN HISTORIC PRESERVATION

ARC 735 - PROJECT DELIVERY

ARC 736 - BUILDING CODES AND DESIGN

ARC 738 - CONSTRUCTION SPECIFICATIONS

ARC 743 - ADVANCED PROFESSIONAL PRACTICE

ARC 748 - MASTER'S PROJECT RESEARCH

ARC 749 - MASTER'S PROJECT RESEARCH

ARC 750 - DESIGN STUDIO X

ARC 759 - MASTER'S PROJECT IN BUILDING DESIGN

ARC 761 - SPECIAL PROBLEMS IN TOWN DESIGN

ARC 779 - MASTER'S PROJECT IN TOWN DESIGN

ARC 799 - TOPICS IN ARCHITECTURE

ART 504 - CURATORIAL PRACTICE: HISTORY, THEORY, PRACTICE

ART 604 - CURATORIAL PRACTICE: CURATORIAL PROJECTS

ART 748 - INDEPENDENT THESIS RESEARCH

ART 768 - THESIS PREPARATION AND PRESENTATION

ART 794 - INTERNSHIP: BOLIVAR GALLERY

ART 795 - INTERNSHIP: UK ART MUSEUM

ART 796 - INTERNSHIP: COMMUNITY PARTNERS

ART 797 - INTERNSHIP: ARTS ORGANIZATION

ASC 404G - SHEEP SCIENCE

ASC 408G - SWINE PRODUCTION

ASC 410G - EQUINE SCIENCE

ASC 420G - DAIRY CATTLE SCIENCE

ASC 564 - MILK SECRETION

ASC 601 - MAMMALIAN ENDOCRINOLOGY 03.0

ASC 602 - INTEGRATED NUTRITIONAL SCIENCES II

ASC 630 - ADVANCED MEAT SCIENCE

ASC 660 - BIOLOGY OF REPRODUCTION

ASC 664 - ADVANCED ANIMAL BREEDING

ASC 680 - LABORATORY METHODS IN NUTRITIONAL SCIENCES

ASC 681 - ENERGY METABOLISM

ASC 683 - PROTEIN METABOLISM

ASC 684 - ADVANCED RUMINANT NUTRITION

ASC 685 - MINERAL METABOLISM

ASC 686 - ADVANCED NONRUMINANT NUTRITION

ASC 687 - VITAMIN METABOLISM

ASC 688 - EQUINE NUTRITION

ASC 689 - PHYSIOLOGY OF NUTRIENT DIGESTION AND ABSORPTION

ASC 690 - MACRONUTRIENT METABOLISM IN DOMESTIC ANIMALS

ASC 748 - MASTER'S THESIS RESEARCH

ASC 749 - DISSERTATION RESEARCH

ASC 767 - DISSERTATION RESIDENCY CREDIT

ASC 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

ASC 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

ASC 771 - ANIMAL SCIENCE SEMINAR

ASC 777 - ADVANCED TOPICS IN ANIMAL SCIENCE (SUBTITLE REQUIRED)

ASC 780 - SPECIAL PROBLEMS IN ANIMAL DERIVED FOODS

ASC 781 - SPECIAL PROBLEMS IN GENETICS AND ANIMAL BREEDING

ASC 782 - SPECIAL PROBLEMS IN ANIMAL NUTRITION

ASC 783 - SPECIAL PROBLEMS IN REPRODUCTIVE PHYSIOLOGY (SUBTITLE REQUIRED)

ASC 790 - RESEARCH IN ANIMAL DERIVED FOODS

ASC 791 - RESEARCH IN GENETICS AND ANIMAL BREEDING

ASC 792 - RESEARCH IN ANIMAL NUTRITION

ASC 793 - RESEARCH IN REPRODUCTIVE PHYSIOLOGY (SUBTITLE REQUIRED)

AST 591 - ASTROPHYSICS I - STARS

AST 592 - ASTROPHYSICS II - GALAXIES AND INTERSTELLAR MATERIAL

AST 639 - PHYSICAL PROCESSES IN ASTROPHYSICS

AT 500 - INTEGRATIVE CARE FOR HEALTH SCIENCES

AT 504 - CURRENT TOPICS IN ACTIVE WOMEN'S HEALTH

AT 505 - SPORTS MEDICINE FOR ACTIVE WOMEN

AT 506 - EXPERIENTIAL LEARNING IN WOMEN'S HEALTH: PART I

AT 507 - EXPERIENTIAL LEARNING IN WOMEN'S HEALTH: PART II

AT 593 - FOUNDATIONS AND PATHOPHYSIOLOGY OF THE MUSCULOSKELETAL SYSTEM FOR ATHLETIC TRAINERS: INTEGUMENTARY AND IMMUNE SYSTEMS

AT 600 - FOUNDATIONS IN ATHLETIC TRAINING

AT 601 - MUSCULOSKELETAL ANATOMICAL DISSECTION

AT 602 - FOUNDATIONS AND PATHOPHYSIOLOGY OF THE MUSCULOSKELETAL SYSTEM: I

AT 603 - FOUNDATIONS AND PATHOPHYSIOLOGY OF THE MUSCULOSKELETAL SYSTEM: II

AT 604 - LIFE-THREATENING AND EMERGENCY CONDITIONS DURING PHYSICAL ACTIVITY

AT 610 - ASSESSMENT AND MANAGEMENT OF LIFE-THREATENING AND EMERGENCY CONDITIONS DURING PHYSICAL ACTIVITY

AT 620 - GENERAL MEDICAL CONDITIONS IN THE PHYSICALLY ACTIVE

AT 630 - EVIDENCE-BASED PRACTICE IN ATHLETIC TRAINING

AT 631 - CLINICAL INTEGRATION I: LOWER EXTREMITY ASSESSMENT AND MANAGEMENT

AT 632 - CLINICAL INTEGRATION II: UPPER EXTREMITY ASSESSMENT AND MANAGEMENT

AT 633 - CLINICAL INTEGRATION III: ASSESSMENT AND MANAGEMENT OF LIFE-THREATENING AND EMERGENCY CONDITIONS DURING PHYSICAL ACTIVITY

AT 634 - CLINICAL INTEGRATION IV: THERAPEUTIC MODALITIES AND ADVANCED THERAPEUTIC REHABILITATION

AT 635 - CLIN INT V: SPINE ASSESSMENT & MGMT

AT 640 - CLINICAL EDUCATION IN ATHLETIC TRAINING I

AT 641 - CLINICAL EDUCATION IN ATHLETIC TRAINING II

AT 642 - CLINICAL EDUCATION IN ATHLETIC TRAINING-III

AT 643 - CLINICAL EDUCATION IN ATHLETIC TRAINING-IV

AT 644 - CLINICAL EDUCATION IN ATHLETIC TRAINING-V

AT 660 - DIRECTED STUDY IN ATHLETIC TRAINING

AT 670 - SCIENTIFIC INQUIRY IN ATHLETIC TRAINING I

AT 671 - SCIENTIFIC INQUIRY IN ATHLETIC TRAINING II

AT 672 - SCIENTIFIC INQUIRY IN ATHLETIC TRAINING III

AT 673 - SCIENTIFIC INQUIRY IN ATHLETIC TRAINING IV

AT 680 - SPECIAL TOPICS IN ATHLETIC TRAINING (SUBTITLE REQUIRED)

AT 682 - CLINICAL SEMINAR IN ATHLETIC TRAINING

AT 685 - PRINCIPLES AND APPLICATION OF KINESIOLOGICAL EMG

AT 690 - ORTHOPAEDIC EVALUATION AND REHABILITATION OF THE UPPER EXTREMITY

AT 691 - THERAPEUTIC MODALITIES FOR ATHLETIC TRAINERS

AT 692 - ORTHOPAEDIC EVALUATION & REHABILITATION OF THE SPINE

AT 693 - MANAGEMENT AND ADMINISTRATION IN ATHLETIC TRAINING

AT 695 - ORTHOPAEDIC EVALUATION AND REHABILITATION OF THE LOWER EXTREMITY

AT 696 - ORTHOPEDIC EVALUATION AND REHABILITATION OF THE UPPER EXTREMITY

AT 697 - ORTHOPEDIC EVALUATION AND REHABILITATION OF THE SPINE

AT 700 - MUSCLE MECHANICS

AT 701 - CLINICAL SEMINAR IN ATHLETIC TRAINING I

AT 702 - CLINICAL SEMINAR IN ATHLETIC TRAINING II

AT 703 - CLINICAL SEMINAR IN ATHLETIC TRAINING III

AT 704 - CLINICAL SEMINAR IN ATHLETIC TRAINING IV

AT 720 - SPORTS MEDICINE

AT 768 - RES CR MASTERS DEGREE

AT 775 - TISSUE PATHOMECHANICS IN PHYSICAL ACTIVITY INJURIES

AT 776 - ADVANCED EVALUATION AND RE-INTEGRATION TO ACTIVITY FOR THE POST- REHABILITATION MUSCULOSKELETAL PATIENT

AT 777 - ADVANCE TREATMENT TECHNIQUES FOR REHABILITATION OF MUSCULOSKELETAL MOBILITY DEFICITS

AT 778 - NEUROMECHANICAL MEASUREMENT TECHNIQUES FOR MUSCULOSKELETAL PATIENTS

AT 780 - OCCUPATIONAL HEALTH FOR ALLIED HEALTH CARE PROVIDERS

AT1 601 - GROSS ANATOMY @ UNIV OF CINCIANNATI

B&E 650 - GRADUATE LEVEL EXPERIENTIAL EDUCATION I

B&E 651 - GRADUATE LEVEL EXPERIENTIAL EDUCATION II

BA 601 - TOTAL QUALITY MANAGEMENT

BA 700 - TEACHING METHODS IN BUSINESS

BA 749 - DISSERTATION RESEARCH

BA 762 - RESEARCH METHODOLOGY

BA 767 - DISSERTATION RESIDENCY CREDIT

BA 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

BA 769 - RESIDENCE CREDIT FOR DOCTOR'S DEGREE

BAE 435G - WASTE MANAGEMENT FOR BIOSYSTEMS

BAE 502 - MODELING OF BIOLOGICAL SYSTEMS

BAE 503 - FUNDAMENTALS OF BIORENEWABLE RESOURCE ENGINEERING

BAE 505 - THERMOCHEMICAL PROCESSING OF BIOMASS

BAE 506 - LIFE CYCLE ASSESSMENTS FOR BIORESOURCE ENGINEERING

BAE 514 - COMPONENT DESIGN

BAE 515 - FLUID POWER SYSTEMS

BAE 516 - CONTROL OF OFF-ROAD VEHICLES

BAE 532 - INTRODUCTION TO STREAM RESTORATION

BAE 535 - ENVIRONMENTAL CONTROL SYSTEM DESIGN AND RECLAMATION

BAE 536 - FLUVIAL HYDRAULICS

BAE 537 - IRRIGATION AND DRAINAGE ENGINEERING

BAE 538 - GIS APPLICATIONS FOR WATER RESOURCES

BAE 541 - INTERMEDIATE FLUID MECHANICS

BAE 542 - BIOFUELS AND BIOPRODUCTS

BAE 543 - SOLAR CELL DEVICES AND SYSTEMS FOR ELECTRICAL ENERGY GENERATION

BAE 545 - ENGINEERING HYDRAULICS

BAE 547 - WATERSHED SEDIMENTATION

BAE 549 - BIOLOGICAL PROCESS ENGINEERING

BAE 580 - HEATING, VENTILATING AND AIR CONDITIONING

BAE 581 - PHYSICS OF PLANT AND ANIMAL ENVIRONMENTS

BAE 583 - INDUSTRIAL ENERGY UTILIZATION AND ASSESSMENT

BAE 599 - TOPICS IN BIOSYSTEMS ENGINEERING

**BAE 625 - TOPICS IN ADVANCED ENVIRONMENT CONTROL AND ANALYSIS
(SUBTITLE REQUIRED)**

BAE 642 - OPEN CHANNEL FLOW

BAE 643 - MECHANICS OF SEDIMENT TRANSPORT

BAE 647 - SYSTEM OPTIMIZATION I

BAE 648 - ENERGY AND MASS TRANSFER IN BIOSYSTEMS PROCESSING

BAE 652 - BIOLOGICAL PROCESSES FOR WATER QUALITY CONTROL

BAE 653 - WATER QUALITY IN SURFACE WATERS

BAE 658 - INSTRUMENTATION FOR ENGINEERING RESEARCH

BAE 662 - STOCHASTIC HYDROLOGY

BAE 664 - WATERSHED MANAGEMENT

BAE 665 - WATER RESOURCES SYSTEMS

BAE 667 - STORMWATER MODELING

BAE 672 - LANDFILL DESIGN

BAE 680 - BIOCHEMICAL ENGINEERING

BAE 748 - MASTER'S THESIS RESEARCH

BAE 749 - DISSERTATION RESEARCH

BAE 750 - SPECIAL PROBLEMS IN BIOSYSTEMS ENGINEERING

BAE 767 - DISSERTATION RESIDENCY CREDIT

BAE 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

BAE 769 - RESIDENCE CREDIT FOR DOCTOR'S DEGREE

BAE 775 - SEMINAR

BAE 795 - THESIS

BCH 401G - FUNDAMENTALS OF BIOCHEMISTRY

BCH 411G - HUMAN REPRODUCTION, TECHNOLOGY, AND SOCIETY

BCH 419G - MOLECULAR BASIS OF HUMAN DISEASE

BCH 501 - GENERAL BIOCHEMISTRY

BCH 502 - GENERAL BIOCHEMISTRY

BCH 520 - MECHANISMS OF DISEASE

BCH 556 - PRINCIPLES OF DRUG DESIGN

BCH 601 - SPECIAL TOPICS IN MOLECULAR AND CELLULAR GENETICS

BCH 604 - STRUCT BIOCHEM & MOLECULAR INTERACTIONS

BCH 605 - PRINCIPLES OF NEUROBIOLOGY

BCH 607 - BIOMOLECULES AND METABOLISM

BCH 608 - BIOMOLECULES AND MOLECULAR BIOLOGY

BCH 609 - PLANT BIOCHEMISTRY

BCH 610 - CELLULAR AND MOLECULAR BIOLOGY OF BIOMEMBRANES

BCH 611 - BIOCHEMISTRY AND CELL BIOLOGY OF NUCLEIC ACIDS

BCH 612 - STRUCTURE AND FUNCTION OF PROTEINS AND ENZYMES

BCH 615 - MOLECULAR BIOLOGY

BCH 618 - SEMINAR IN BIOCHEMISTRY

BCH 619 - SEMINAR IN BIOCHEMISTRY

BCH 620 - BIOSYNTHESIS OF NATURAL PRODUCTS

BCH 625 - SCIENTIFIC COMMUNICATIONS

BCH 640 - RESEARCH IN BIOCHEMISTRY

BCH 748 - MASTER'S THESIS RESEARCH

BCH 749 - DISSERTATION RESEARCH

BCH 767 - DISSERTATION RESIDENCY CREDIT

BCH 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

BCH 769 - RESIDENCE CREDIT FOR DOCTOR'S DEGREE

BCH 779 - MEMBRANE SCIENCES COLLOQUIUM

BCH 780 - TOPICS IN BIOCHEMISTRY

BCH 812 - DENTAL BIOCHEMISTRY

BCH 815 - FIRST-YEAR ELECTIVE, BIOCHEMISTRY

BCH 819 - CELLULAR STRUCTURE AND FUNCTION/BIOCHEMISTRY

BCH 825 - SECOND-YEAR ELECTIVE, BIOCHEMISTRY

BCH 850 - ELECTIVE: RESEARCH IN BIOCHEMISTRY

BIO 401G - SPEC TOPS IN BIOLOGY FOR ELEM/MID/HS TEACHERS (SUBTITLE REQUIRED)

BIO 420G - TAXONOMY OF VASCULAR PLANTS

BIO 430G - PLANT PHYSIOLOGY

BIO 452G - LABORATORY IN ECOLOGY

BIO 461G - INTRODUCTION TO POPULATION GENETICS

BIO 494G - IMMUNOBIOLOGY

BIO 495G - BACTERIAL PATHOGENESIS

BIO 502 - SYSTEMS, CELLULAR AND MOLECULAR PHYSIOLOGY

BIO 507 - BIOLOGY OF SLEEP AND CIRCADIAN RHYTHMS

BIO 508 - EVOLUTION

BIO 509 - BRAINS & BUDS: NEUROSCIENCE OF POLLINATION

BIO 510 - RECOMBINANT DNA TECHNIQUES LABORATORY

BIO 520 - BIOINFORMATICS

BIO 525 - ADVANCED ECOLOGY

BIO 527 - STEM CELLS, TISSUE ENGINEERING, AND REGENERATIVE MEDICINE

BIO 530 - BIOGEOGRAPHY AND CONSERVATION

BIO 535 - COMPARATIVE NEUROBIOLOGY AND BEHAVIOR

BIO 542 - HISTOLOGY

BIO 544 - EMBRYOLOGY

BIO 550 - ADVANCED PHYSIOLOGY

BIO 551 - LIFE CYCLE ECOLOGY OF FLOWERING PLANTS

BIO 553 - FISH BIOLOGY

BIO 555 - VERTEBRATE ZOOLOGY

BIO 556 - COMMUNICATION BIOLOGY

BIO 559 - ORNITHOLOGY

BIO 560 - ENVIRONMENTAL PHYSIOLOGY AND TOXICOLOGY

BIO 561 - INSECTS AFFECTING HUMAN & ANIMAL HEALTH

BIO 563 - PARASITOLOGY

BIO 564 - INSECT TAXONOMY

BIO 568 - INSECT BEHAVIOR

BIO 570 - INVERTEBRATE ZOOLOGY

BIO 575 - PLANT ANATOMY AND MORPHOLOGY

**BIO 580 - SPECIAL TOPICS IN BIOLOGY (ADVANCED LEVEL): SUBTITLE
REQUIRED**

BIO 582 - VIROLOGY

BIO 595 - IMMUNOBIOLOGY LABORATORY

BIO 601 - SPECIAL TOPICS IN MOLECULAR AND CELLULAR GENETICS

BIO 602 - PRINCIPLES AND APPLICATIONS OF PRACTICAL MICROSCOPY

BIO 604 - GENETIC ANALYSIS

BIO 606 - CONCEPTUAL METHODS IN ECOLOGY AND EVOLUTION

BIO 607 - ADVANCED EVOLUTION

BIO 608 - BEHAVIORAL ECOLOGY AND LIFE HISTORIES

BIO 609 - POPULATION AND COMMUNITY ECOLOGY

BIO 612 - BIOLOGY OF AGING

BIO 615 - MOLECULAR BIOLOGY

BIO 618 - ECOLOGICAL GENETICS

BIO 620 - PLANT MOLECULAR BIOLOGY

BIO 621 - TOPICS IN MODERN BIOLOGY (SUBTITLE REQUIRED)

BIO 622 - PHYSIOLOGY OF PLANTS I

BIO 623 - PHYSIOLOGY OF PLANTS II

BIO 625 - INSECT-PLANT RELATIONSHIPS

BIO 629 - DEVELOPMENTAL BIOLOGY

BIO 632 - ADVANCED CELL BIOLOGY I

BIO 635 - INSECT PHYSIOLOGY

BIO 636 - INSECT MOLECULAR BIOLOGY

BIO 638 - DEVELOPMENTAL NEUROBIOLOGY

BIO 650 - ANIMAL PHYSIOLOGY LABORATORY

BIO 665 - INSECT ECOLOGY

BIO 667 - INVASIVE SPECIES BIOLOGY

BIO 684 - PHYLOGENETIC SYSTEMATICS

BIO 685 - ADVANCED IMMUNOBIOLOGY

BIO 707 - CONTEMPORARY TOPICS IN IMMUNOLOGY

BIO 720 - MICROBIAL STRUCTURE AND FUNCTION

BIO 740 - MAMMALIAN RADIATION BIOLOGY

BIO 748 - MASTER'S THESIS RESEARCH

BIO 749 - DISSERTATION RESEARCH

BIO 767 - DISSERTATION RESIDENCY CREDIT

BIO 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

BIO 769 - RESIDENCE CREDIT FOR DOCTOR'S DEGREE

BIO 770 - SEMINAR IN BIOLOGY (SUBTITLE REQUIRED)

BIO 772 - SEMINAR IN MICROBIOLOGY

BIO 773 - SEMINAR IN PLANT PHYSIOLOGY

BIO 782 - ADVANCED VIROLOGY

BIO 790 - MENTORING UNDERGRADUATE RESEARCH IN BIOLOGY

BIO 795 - RESEARCH IN BIOLOGY

BIO 798 - RESEARCH IN MICROBIOLOGY

BME 501 - FOUNDATIONS OF BIOMEDICAL ENGINEERING

BME 532 - MODELING OF PHYSIOLOGICAL SYSTEMS

BME 540 - BIOMEDICAL INSTRUMENTATION

BME 541 - OCCUPATIONAL BIOMECHANICS

BME 550 - INTRODUCTION TO BIOMEDICAL IMAGING

BME 571 - MECHANICAL MODELING OF HUMAN MOTION

BME 573 - CELL MECHANICS AND MECHANOBIOLOGY

**BME 579 - NEURAL ENGINEERING: MERGING ENGINEERING WITH
NEUROSCIENCE**

BME 599 - TOPICS IN BIOMEDICAL ENGINEERING; SUBTITLE REQUIRED

BME 602 - PRACTICES OF BIOMEDICAL ENGINEERING

BME 609 - BIOMEDICAL ENGINEERING ETHICS

BME 622 - NAVIGATIONAL GUIDES FOR BIOMEDICAL PRODUCT DEVELOPMENT

BME 625 - ANALYSIS OF NONLINEAR BIOMEDICAL SYSTEMS

BME 635 - MAGNETIC RESONANCE INSTRUMENTATION AND MEASUREMENT

BME 641 - BIOMEDICAL SIGNAL PROCESSING I

BME 642 - BIOMEDICAL CONTROL SYSTEMS I

BME 643 - BIOMEDICAL SIGNAL PROCESSING II

BME 644 - BIOMEDICAL CONTROL SYSTEMS II

BME 655 - BIOMEDICAL OPTICAL SPECTROSCOPY AND MICROSCOPY

BME 662 - TISSUE-IMPLANT INTERFACE

BME 664 - NANOBIOENGINEERING AND NANOMEDICINE

BME 665 - ADVANCED TISSUE ENGINEERING

BME 670 - BIOSOLID MECHANICS

BME 672 - MUSCULOSKELETAL BIOMECHANICS

BME 673 - BIOFLUID MECHANICS

BME 688 - BIOMATERIALS SCIENCE AND ENGINEERING

BME 690 - RESEARCH IN BIOMEDICAL ENGINEERING (SUBTITLE REQUIRED)

BME 699 - SPECIAL TOPICS IN BIOMEDICAL ENGINEERING (SUBTITLE REQUIRED)

BME 706 - MANAGEMENT OF TECHNOLOGY

BME 748 - MASTER'S THESIS RESEARCH

BME 749 - DISSERTATION RESEARCH

BME 767 - DISSERTATION RESIDENCY CREDIT

BME 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

BME 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

BME 772 - SEMINAR

BME 774 - GRADUATE BME SEMINAR

BME 781 - SPECIAL PROBLEMS IN BIOMEDICAL ENGINEERING (SUBTITLE REQUIRED)

BME 790 - RESEARCH IN BIOMEDICAL ENGINEERING

BME 791 - ADVANCED STUDY PROJECT

BMI 520 - DESIGNING FOR DATA VISUALIZATION

BMI 633 - INTRODUCTION TO BIOINFORMATICS

BMI 730 - PRINCIPLES OF CLINICAL INFORMATICS

BMI 731 - BIOMEDICAL INFORMATION RETRIEVAL

BMI 732 - BIOMEDICAL ONTOLOGIES AND SEMANTIC WEB TECHNIQUES

BMI 733 - BIOMEDICAL NATURAL LANGUAGE PROCESSING

BMI 734 - INTRODUCTION TO BIOMEDICAL IMAGE ANALYSIS

BMI 735 - INTRODUCTION TO BIOIMAGE INFORMATICS

BS1 870 - BEHAVIORAL SCIENCE/ NEW ZEALAND

BSC 529 - SURVEY OF MEDICAL ANTHROPOLOGY

BSC 534 - ETHICS AND RESPONSIBILITY IN CLINICAL RESEARCH

BSC 620 - ORIENTATION TO MEDICAL BEHAVIORAL SCIENCE

**BSC 625 - FUNDAMENTALS OF BIOSTATISTICS FOR CLINICAL AND
TRANSLATIONAL SCIENCE**

BSC 626 - SURVEY OF HEALTH PSYCHOLOGY

BSC 664 - CULTURAL ISSUES IN MENTAL ILLNESS

**BSC 731 - METHODS AND TECHNOLOGIES IN CLINICAL AND TRANSLATIONAL
SCIENCE**

BSC 732 - INTERDISCIPLINARY PROTOCOL DEVELOPMENT

BSC 733 - SEMINAR IN CLINICAL AND TRANSLATIONAL SCIENCE

BSC 746 - RESEARCH ETHICS AND DILEMMAS

**BSC 750 - HISTORY OF MEDICINE AMONG AFRICAN AMERICANS: IMPLICATIONS
FOR HEALTH DISPARITIES**

BSC 755 - RACE, RACISM & HEALTH DISPARITIES AMONG BLACKS IN THE U.S.

BSC 760 - AGING, HEALTH AND DECISION MAKING

BSC 763 - WOMEN'S TRAUMA & MENTAL HEALTH

BSC 764 - SEMINAR IN HEALTH INEQUITIES

BSC 765 - ADVANCED SEMINAR IN MEDICAL ANTHROPOLOGY

BSC 766 - CONCEPTS IN MEDICAL SOCIOLOGY

BSC 767 - DISSERTATION RESIDENCY CREDIT

BSC 770 - PSYCHOSOCIAL ISSUES IN HEALTH AND AGING

BSC 772 - TOPICAL SEMINAR IN MEDICAL BEHAVIORAL SCIENCE

BSC 773 - PSYCHOSOCIAL ONCOLOGY

BSC 774 - FOOD AND FOOD SECURITY IN A CHANGING WORLD

BSC 775 - HUMAN RESPONSE TO STRESS

BSC 776 - SEMINAR IN DEPENDENCY BEHAVIOR

BSC 778 - BEHAVIORAL FACTORS IN SELECTED DISEASES

BSC 779 - BEHAVIORAL FACTORS IN DEATH AND DYING

BSC 781 - HEALTH RELATED BEHAVIORS: MODELS AND APPLICATIONS

BSC 782 - WOMEN HEALTH AND AGING

BSC 787 - BIOBEHAVIORAL PERSPECTIVES ON DRUG AND ALCOHOL ABUSE AND DEPENDENCY

BSC 788 - DRUG ABUSE: CONTEMPORARY THEORIES & ISSUES

BSC 790 - RESEARCH IN MEDICAL BEHAVIORAL SCIENCE

BSC 814 - PATIENTS, DENTISTS AND SOCIETY I

BSC 815 - FIRST-YEAR ELECTIVE, BEHAVIORAL SCIENCE

BSC 824 - COMMUNICATION IN THE DENTAL HEALTH CARE SETTING

BSC 825 - SECOND-YEAR ELECTIVE, BEHAVIORAL SCIENCE

BSC 850 - ELECTIVE IN BEHAVIORAL SCIENCE

BSC 880 - TREATMENT OF DENTAL FEAR

BST 535 - INTRODUCTION TO R PROGRAMMING

BST 600 - INTRODUCTION TO BIOSTATISTICAL METHODS

BST 631 - DESIGN AND ANALYSIS OF HEALTH SURVEYS

BST 635 - DATABASES AND SAS PROGRAMMING

BST 636 - ANALYTIC METHODS FOR MINING HEALTHCARE DATA

BST 655 - INTRODUCTION TO STATISTICAL GENETICS

BST 661 - SURVIVAL ANALYSIS

BST 662 - APPLIED LONGITUDINAL DATA ANALYSIS

BST 663 - ANALYSIS OF CATEGORICAL DATA

BST 664 - DESIGN AND ANALYSIS OF CLINICAL TRIALS

BST 675 - SIMULATION BASED INFERENCE FOR HEALTH DATA SCIENCE

BST 676 - THEORY FOR BIOSTATISTICS METHODS

BST 681 - LINEAR REGRESSION

BST 682 - GENERALIZED LINEAR MODELS

BST 693 - STATISTICAL PRACTICE IN PUBLIC HEALTH

BST 698 - BAYESIAN MODELING IN BIOSTATISTICS

BST 699 - ADVANCED BIOSTATISTICS PRACTICE

BST 713 - CLINICAL TRIALS

BST 762 - LONGITUDINAL DATA ANALYSIS

BST 764 - APPLIED STATISTICAL MODELING FOR MEDICINE AND PUBLIC HEALTH

BTH 805 - BIOETHICS ON FILM

BUS 519 - RECORDS MANAGEMENT

BUS 556 - BUSINESS REPORTS AND COMMUNICATIONS

BVI 580 - INTRODUCTION TO VISUAL IMPAIRMENTS

BVI 582 - ANATOMY AND PHYSIOLOGY OF THE EYE

BVI 583 - BRAILLE CODES I

BVI 611 - TEACHING METHODS FOR STUDENTS WITH VISUAL IMPAIRMENTS

BVI 614 - BRAILLE CODES II

BVI 615 - ASSISTIVE TECHNOLOGY FOR STUDENTS WITH VISUAL IMPAIRMENTS

BVI 616 - EXPANDED CORE CURRICULUM FOR BLIND AND VISUALLY IMPAIRED

BVI 617 - VISUAL IMPAIRMENTS AND MULTIPLE DISABILITIES

BVI 618 - ASSESSMENT OF STUDENTS WITH VISUAL IMPAIRMENTS

BVI 620 - FOUNDATIONS OF ORIENTATION AND MOBILITY

BVI 621 - INTRODUCTION TO SKILLS AND TECHNIQUES IN ORIENTATION AND MOBILITY

BVI 622 - ADVANCED SKILLS AND TECHNIQUES IN ORIENTATION AND MOBILITY

BVI 623 - ORIENTATION AND MOBILITY FOR CHILDREN

BVI 624 - TECHNOLOGY IN ORIENTATION & MOBILITY

BVI 626 - METHODS IN ORIENTATION AND MOBILITY

BVI 627 - ORIENTATION AND MOBILITY FOR INDIVIDUALS WITH COMPLEX NEEDS

BVI 628 - ASSESSMENT IN ORIENTATION AND MOBILITY

BVI 629 - PRACTICUM IN ORIENTATION AND MOBILITY

BVI 650 - SPECIAL TOPICS IN BLINDNESS AND VISUAL IMPAIRMENTS

BVI 710 - STUDENT TEACHING/FIELD EXPERIENCE IN VISUAL IMPAIRMENTS

BVI 720 - INTERNSHIP IN ORIENTATION AND MOBILITY

CDE 810 - INTRODUCTION TO GERIATRIC/GERONTOLOGIC HEALTH CARE

CDE 814 - PATIENTS, DENTISTS AND SOCIETY I

CDE 815 - FUNDAMENTALS OF DENTAL PUBLIC HEALTH

CDE 824 - COMMUNICATION IN THE DENTAL HEALTH CARE SETTING

CDE 826 - DENTAL PRACTICE MANAGEMENT I

CDE 830 - ADVANCED CONCEPTS IN DENTAL PUBLIC HEALTH

CDE 841 - DENTAL PRACTICE FIELD EXPERIENCE

CDE 844 - DENTAL PRACTICE MANAGEMENT II

CDE 850 - EXTRAMURAL EXPERIENCES FOR STUDENT DENTISTS

CDE 855 - PUBLIC HEALTH DENTISTRY FIELD EXPERIENCE

CDE 880 - TREATMENT OF DENTAL FEAR

CDE 881 - COMPUTER APPLICATIONS IN DENTISTRY

**CDE 882 - ADVANCED COURSE ON THE TREATMENT OF SPECIAL PATIENTS
(ELECTIVE)**

CDE 882 - TEAM MANAGEMENT OF LONG TERM CARE RESIDENTS

CDE 883 - COMMUNITY-BASED SERVICE ELECTIVE

**CDE 884 - INTERNATIONAL INTERPROFESSIONAL SERVICE LEARNING
ELECTIVE**

CDED 814 - PATIENTS, DENTISTS AND SOCIETY I

CDED 815 - FUNDAMENTALS OF DENTAL PUBLIC HEALTH

CDED 841 - DENTAL PRACTICE FIELD EXPERIENCE

CDED 844 - DENTAL PRACTICE MANAGEMENT II

CDS 611 - CHILD GROWTH AND DEVELOPMENT, PART I

CDS 612 - CHILD GROWTH AND DEVELOPMENT, PART II

CDS 613 - CONTEMPORARY LEADERSHIP IN DENTISTRY

CDS 631 - DIAGNOSIS AND MANAGEMENT OF TEMPOROMANDIBULAR DISORDERS AND OROFACIAL PAIN

CDS 660 - SPECIAL TOPICS: RESEARCH DESIGN, METHODOLOGY, AND DISSEMINATION

CDS 670 - ADVANCES IN ORAL AND MAXILLOFACIAL PATHOLOGY

CDS 680 - CLINICAL MEDICINE FOR POSTGRADUATE DENTAL STUDENTS

CDS 748 - MASTER'S THESIS RESEARCH

CDS 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

CDS 810 - NEW DEVELOPMENTS IN DENTISTRY I

CDS 812 - NORMAL HUMAN GROWTH AND DEVELOPMENT

CDS 813 - MANAGEMENT I:INTRODUCTION TO MANAGEMENT FOR THE DENTIST

CDS 815 - INTRODUCTION TO CLINICAL DENTISTRY

CDS 818 - THE PROFESSION OF DENTISTRY I

CDS 819 - SPECIAL TOPICS IN DENTISTRY I

CDS 821 - LOCAL ANESTHESIA

CDS 822 - GERONTOLOGY/GERIATRIC DENTISTRY

CDS 823 - MANAGEMENT II: CLINICAL PATIENT MANAGEMENT

CDS 824 - ORAL DIAGNOSIS AND TREATMENT PLANNING

CDS 825 - DENTAL IMPLANTOLOGY

CDS 828 - THE PROFESSION OF DENTISTRY II

CDS 829 - SPECIAL TOPICS IN DENTISTRY II

CDS 830 - NEW DEVELOPMENTS IN DENTISTRY III

CDS 831 - CONSCIOUS SEDATION

CDS 833 - MANAGEMENT III: CLINICAL PATIENT MANAGEMENT

CDS 835 - ADVANCED DENTAL IMPLANTOLOGY

CDS 836 - DIAGNOSIS AND MANAGEMENT OF OROFACIAL PAIN

CDS 838 - THE PROFESSION OF DENTISTRY III

CDS 843 - MANAGEMENT IV: CLINICAL PATIENT MANAGEMENT

CDS 844 - DRUG MISUSE, ABUSE AND DEPENDENCY: WHAT DENTISTS NEED TO KNOW

CDS 860 - SPECIAL TOPICS IN ORAL HEALTH

CDS 863 - EXPLORING DENTAL TEACHING ELECTIVE

CDS 865 - FORENSIC ODONTOLOGY

CDS 866 - RESEARCH ELECTIVE COURSE

CDS 881 - MAXILLOFACIAL DISEASE FOR THE HEALTH CARE PROFESSIONAL

CDS 885 - ADVANCED DENTAL IMPLANTOLOGY ELECTIVE

CDS 886 - CLINICAL DIGITAL IMPLANT DENTISTRY

CE 461G - WATER RESOURCE ENGINEERING

CE 471G - SOIL MECHANICS

CE 486G - REINFORCED CONCRETE STRUCTURES

CE 487G - STEEL STRUCTURES

CE 506 - THE ENGINEER, THE LAW, AND THE ENVIRONMENT

CE 507 - CONSTRUCTION SAFETY AND HEALTH

CE 508 - DESIGN & OPTIMIZATION OF CONSTRUCTION

CE 509 - CONTROL OF THE CONSTRUCTION PROJECT

CE 517 - BOUNDARY LOCATION PRINCIPLES

CE 525 - CIVIL ENGINEERING APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS

CE 531 - GEOMETRIC DESIGN AND OPERATIONS OF ROADWAYS

CE 533 - RAILROAD FACILITIES DESIGN AND ANALYSIS

CE 534 - PAVEMENT DESIGN, CONSTRUCTION AND MANAGEMENT

CE 534J - PAVEMENT DESIGN, CONSTRUCTION AND MANAGEMENT

CE 539 - TRANSPORTATION SYSTEMS DESIGN

CE 541 - INTERMEDIATE FLUID MECHANICS

CE 542 - INTRODUCTION TO STREAM RESTORATION

CE 546 - FLUVIAL HYDRAULICS

CE 547 - WATERSHED SEDIMENTATION

CE 549 - ENGINEERING HYDRAULICS

CE 551 - WATER AND WASTEWATER TREATMENT ENGINEERING

CE 553 - ENVIRONMENTAL CONSEQUENCES OF ENERGY PRODUCTION

CE 555 - MICROBIAL ASPECTS OF ENVIRONMENTAL ENGINEERING

CE 568 - GIS APPLICATIONS FOR WATER RESOURCES

CE 579 - GEOTECHNICAL ENGINEERING

CE 579J - GEOTECHNICAL ENGINEERING

CE 580 - ASPHALT MIX DESIGN AND CONSTRUCTION

CE 581 - CIVIL ENGINEERING MATERIALS II

CE 582 - INTERMEDIATE STRUCTURAL ANALYSIS

CE 582J - ADVANCED STRUCTURAL MECHANICS

CE 583 - SUSPENSION BRIDGES

CE 584 - DESIGN OF TIMBER AND MASONRY STRUCTURES

CE 585 - CIVIL ENGINEERING FAILURES

CE 586 - PRESTRESSED CONCRETE

CE 587 - STEEL STRUCTURES

CE 589 - DESIGN OF STRUCTURAL SYSTEMS

CE 595 - INDEPENDENT WORK IN CE

CE 599 - TOPICS IN CIVIL ENGINEERING (SUBTITLE REQUIRED)

CE 599J - TOPICS IN CIVIL ENGINEERING (SUBTITLE REQUIRED)

CE 602 - CONSTRUCTION PROJECT MANAGEMENT

CE 605 - NEW ENGINEERING ENTERPRISES

CE 608 - BUILDING INFORMATION MODELING FOR CONSTRUCTION

CE 610 - BIG DATA AND SUPPLY CHAIN ANALYTICS

CE 621 - INTRODUCTION TO FINITE ELEMENT ANALYSIS

CE 631 - URBAN TRANSPORTATION PLANNING

CE 633 - AIR TRANSPORT ENGINEERING

CE 634 - TRAFFIC CHARACTERISTICS

CE 635 - HIGHWAY SAFETY

CE 641 - MECHANICS OF LIQUID FLOW IN PIPES

CE 642 - OPEN CHANNEL FLOW

CE 643 - MECHANICS OF SEDIMENT TRANSPORT

CE 652 - BIOLOGICAL PROCESSES FOR WATER QUALITY CONTROL

CE 653 - WATER QUALITY IN SURFACE WATERS

CE 654 - PRINCIPLES OF WATER AND WASTEWATER TREATMENT PROCESSES

CE 655 - WATER SANITATION AND HEALTH

CE 662 - STOCHASTIC HYDROLOGY

CE 664 - WATERSHED MANAGEMENT

CE 665 - WATER RESOURCES SYSTEMS

CE 667 - STORMWATER MODELING

CE 671 - ADVANCED SOIL MECHANICS

CE 672 - LANDFILL DESIGN

CE 673 - STABILITY OF EARTH SLOPES

CE 676 - GROUNDWATER AND SEEPAGE

CE 679 - GEOTECHNICAL EARTHQUAKE ENGINEERING

CE 681 - ADVANCED CIVIL ENGINEERING MATERIALS

CE 682 - ADVANCED STRUCTURAL ANALYSIS

CE 684 - SLAB AND FOLDED PLATE STRUCTURES

CE 686 - ADVANCED REINFORCED CONCRETE THEORY

CE 687 - ADVANCED STEEL DESIGN

CE 699 - TOPICS IN CIVIL ENGINEERING (SUBTITLE REQUIRED)

CE 709 - COMPUTER APPLICATIONS IN CONSTRUCTION

CE 748 - MASTER'S THESIS RESEARCH

CE 749 - DISSERTATION RESEARCH

CE 767 - DISSERTATION RESIDENCY CREDIT

CE 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

CE 769 - RESIDENCE CREDIT FOR DOCTOR'S DEGREE

CE 772 - EXPERIMENTAL METHODS IN SOIL MECHANICS

CE 779 - ADVANCED GEOTECHNICAL ENGINEERING

CE 782 - DYNAMICS OF STRUCTURES

CE 784 - SHELL STRUCTURES

CE 790 - SPECIAL RESEARCH PROBLEMS IN CIVIL ENGINEERING

CE 791 - SPECIAL DESIGN PROBLEMS IN CIVIL ENGINEERING

CED 510 - ORIENTATION TO DISABILITY & COMMUNITY RESOURCES

**CED 515 - MEDICAL AND PSYCHOSOCIAL ASPECTS OF DISABILITIES:
PHYSICAL DISABILITY**

**CED 516 - MEDICAL AND PSYCHOSOCIAL ASPECTS OF DISABILITIES:
PSYCHIATRIC DISABILITIES**

CED 520 - FOUNDATIONS OF PROFESSIONAL COUNSELING

**CED 525 - HUMAN GROWTH, DISABILITY, AND DEVELOPMENT ACROSS THE
LIFESPAN**

CED 530 - SOCIAL AND CULTURAL FOUNDATIONS OF COUNSELING

CED 540 - ADDICTION AND SUBSTANCE USE COUNSELING

CED 550 - ETHICS FOR THE COUNSELING PROFESSION

CED 552 - REHABILITATION TECHNOLOGY IN EDUCATION AND EMPLOYMENT

CED 554 - RURAL REHABILITATION

CED 558 - SPECIAL TOPICS IN REHABILITATION

CED 560 - SUPPORTED EMPLOYMENT, INDEPENDENT LIVING, AND TRANSITION

CED 570 - CRISIS AND TRAUMA COUNSELING

CED 600 - PSYCHOPHARMACOLOGY

CED 610 - CASE MANAGEMENT IN REHABILITATION COUNSELING

CED 615 - CLINICAL PRACTICE OF MENTAL HEALTH COUNSELING

CED 620 - ASSESSMENT IN REHABILITATION AND CLINICAL MENTAL HEALTH

CED 630 - CAREER DEVELOPMENT COUNSELING AND JOB PLACEMENT

CED 640 - PRIVATE PRACTICE IN REHABILITATION COUNSELING

CED 650 - COUNSELING THEORIES

CED 660 - COUNSELING TECHNIQUES

CED 670 - GROUP AND FAMILY MENTAL HEALTH COUNSELING

CED 680 - MENTAL HEALTH DIAGNOSIS AND TREATMENT PLANNING FOR COUNSELORS

CED 701 - SEMINAR FOR EDSCE LEADERSHIP PERSONNEL

CED 710 - CLINICAL PRACTICUM IN COUNSELING

CED 711 - SEMINAR IN ADVANCED REHABILITATION PRACTICES AND PROCEDURES

CED 712 - SEMINAR IN EDSCE PROFESSIONAL SERVICES

CED 715 - ADVANCED SEMINAR IN PSYCHOSOCIAL ASPECTS OF CHRONIC ILLNESS AND DISABILITY

CED 720 - SEMINAR IN EDSCE TEACHER PREPARATION

CED 721 - PRACTICUM IN EDSCE PERSONNEL PREPARATION

CED 730 - CLINICAL INTERNSHIP IN COUNSELING

CED 735 - ADVANCED METHODS FOR TEACHING AND CONDUCTING RESEARCH IN COUNSELOR EDUCATION: FROM THEORY TO PRACTICE

CED 740 - ADMINISTRATION, SUPERVISION AND PROGRAM EVALUATION IN REHABILITATION COUNSELING

CED 750 - REHABILITATION AND MENTAL HEALTH COUNSELING RESEARCH AND PROGRAM EVALUATION

CED 760 - CONTEMPORARY PRACTICES IN REHABILITATION

CED 767 - DISSERTATION RESIDENCY CREDIT

CED 770 - ADVANCED SEMINAR IN REHABILITATION COUNSELING THEORY, PRACTICE, AND EDUCATION

CED 782 - DIRECTED INDEPENDENT STUDY

CED 789 - INDEPENDENT STUDY IN EARLY CHILDHOOD/SPECIAL EDUCATION/COUNSELOR EDUCATION RESEARCH

CED 790 - RESEARCH AND PUBLICATION INTERNSHIP I

CED 791 - RESEARCH AND PUBLICATION INTERNSHIP II

CGS 500 - COGNITIVE SCIENCE IN THEORY AND PRACTICE

CHE 410G - INORGANIC CHEMISTRY

CHE 440G - INTRODUCTORY PHYSICAL CHEMISTRY

CHE 442G - THERMODYNAMICS AND KINETICS

CHE 446G - PHYSICAL CHEMISTRY FOR ENGINEERS

CHE 510 - ADVANCED INORGANIC CHEMISTRY

CHE 514 - DESCRIPTIVE INORGANIC CHEMISTRY

CHE 516 - INORGANIC MATERIALS CHEMISTRY

CHE 521 - RADIOCHEMISTRY LABORATORY

CHE 524 - CHEMICAL INSTRUMENTATION

CHE 525 - BIOANALYTICAL SENSORS

CHE 532 - SPECTROMETIC IDENTIFICATION OF ORGANIC MOLECULES

CHE 533 - ADVANCED ORGANIC CHEMISTRY LABORATORY

CHE 535 - SYNTHETIC ORGANIC CHEMISTRY

CHE 536 - ORGANIC MATERIALS: ELECTRONIC AND PHOTONIC PROPERTIES

CHE 538 - PRINCIPLES OF ORGANIC CHEMISTRY

CHE 547 - PRINCIPLES OF PHYSICAL CHEMISTRY I

CHE 548 - PRINCIPLES OF PHYSICAL CHEMISTRY II

CHE 550 - BIOLOGICAL CHEMISTRY I

CHE 552 - BIOLOGICAL CHEMISTRY II

CHE 553 - CHEMISTRY AND MOLECULAR BIOTECHNOLOGY

CHE 555 - HOMONUCLEAR NMR

CHE 556 - SCIENCE AND TECHNOLOGY FOR THE FUTURE

CHE 558 - HORMONE RECEPTORS AND CELL SIGNALS

CHE 559 - MOLECULAR BIOPHYSICS

CHE 565 - ENVIRONMENTAL CHEMISTRY

CHE 566 - ORGANIC MATERIALS: CHARACTERIZATION AND DEVICES

CHE 567 - ORGANIC MATERIALS: FABRICATION LABORATORY

CHE 576 - POLYMER CHEMISTRY

CHE 580 - TOPICS IN CHEMISTRY

CHE 610 - CHEMISTRY OF THE TRANSITION METALS

CHE 612 - INORGANIC CHEMISTRY OF THE NON-METALS

CHE 614 - ORGANOTRANSITION METAL CHEMISTRY

CHE 623 - CHEMICAL EQUILIBRIUM AND DATA ANALYSIS

CHE 625 - SPECTROCHEMICAL ANALYSIS

CHE 626 - ADVANCED ANALYTICAL CHEMISTRY

CHE 633 - PHYSICAL ORGANIC CHEMISTRY

CHE 640 - CHEMICAL CRYSTALLOGRAPHY

CHE 643 - SPECTROSCOPY AND PHOTOPHYSICS

CHE 646 - CHEMICAL KINETICS

CHE 664 - MULTIDISCIPLINARY SENSORS LABORATORY

CHE 666 - PROTEOMICS AND MASS SPECTROMETERY

CHE 668 - SYMMETRY AND CHEMICAL APPLICATIONS

CHE 736 - TOPICS IN ORGANIC CHEMISTRY

CHE 748 - MASTER'S THESIS RESEARCH

CHE 749 - DISSERTATION RESEARCH

CHE 767 - DISSERTATION RESIDENCY CREDIT

CHE 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

CHE 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

CHE 772 - SEMINAR IN CHEMISTRY INSTRUCTION

CHE 776 - GRADUATE SEMINAR

CHE 779 - MEMBRANE SCIENCES COLLOQUIUM

CHE 780 - INDIVIDUAL WORK IN CHEMISTRY

CHE 790 - RESEARCH IN CHEMISTRY

CHI 495G - ADVANCED INDEPENDENT WORK IN CHINESE

CHI 511 - LITERARY CHINESE

CHI 520 - INTRODUCTION TO CHINESE LINGUISTICS

CI 601 - PROSEMINAR IN COMMUNICATION

CI 608 - MASS COMMUNICATIONS AND SOCIETY

CI 610 - PARTICIPATORY COMMUNICATION

CI 615 - PROSEMINAR IN COMMUNICATION AND INFORMATION SYSTEMS

CI 616 - FNDTNS IN INSTRUCTIONAL COMMUNICATION

CI 619 - PROSEMINAR IN INTERNATIONAL/INTERCULTRUAL COMMUNICATION

CI 625 - PROSEMINAR IN ORGANIZATIONAL COMMUNICATION

CI 629 - INTRODUCTION TO MEDICAL INFORMATICS

CI 630 - PROSEMINAR IN MASS MEDIA LAW AND PUBLIC POLICY

CI 631 - PROSEMINAR IN INTERPERSONAL COMMUNICATION

CI 636 - ASSESSMENT AND EVALUATION METHODS IN APPLIED COMMUNICATION RESEARCH

CI 637 - INFORMATION TECHNOLOGY

CI 638 - INTERNET TECHNOLOGIES AND INFORMATION SERVICES

CI 639 - INTRODUCTION TO MEDICAL INFORMATICS

CI 640 - HEALTH SCIENCES LIBRARIES

CI 645 - PRESEMINAR IN MASS COMMUNICATION THEORY

CI 646 - INTERPERSONAL COMMUNICATION IN INSTRUCTION

CI 651 - COMMUNICATION THEORY

CI 652 - DISTANCE EDUCATION: MANAGEMENT AND SUPPORT

CI 656 - INSTRUCTIONAL COMMUNICATION AND TECHNOLOGY

CI 664 - QUALITATIVE METHODS IN COMMUNICATION RESEARCH

CI 665 - QUANTITATIVE METHODS IN COMMUNICATION RESEARCH

CI 668 - DATABASE MANAGEMENT

CI 671 - PROSEMINAR IN HEALTH COMMUNICATION

CI 682 - COMMUNICATION AND PERSUASION

CI 684 - PROSEMINAR IN INSTRUCTIONAL COMMUNICATION

CI 685 - SEMINAR: PREPARING FUTURE FACULTY FOR THE MULTICULTURAL CLASSROOM

CI 686 - PRACTICUM IN PREPARING FUTURE FACULTY

CI 696 - INTERNSHIP IN COMMUNICATION

CI 700 - DIRECTED READING IN COMMUNICATION

CI 719 - SEMINAR IN INTERNATIONAL/INTERCULTURAL COMMUNICATION

CI 721 - SEMINAR IN RISK COMMUNICATION

CI 722 - SEMINAR IN CRISIS COMMUNICATION

CI 723 - SEMINAR IN TRAINING AND CONSULTING

CI 725 - SEMINAR IN ORGANIZATIONAL COMMUNICATION:

CI 726 - COMMUNICATION LEADERSHIP STUDIES

CI 730 - SEMINAR IN MASS MEDIA AND PUBLIC POLICY (SUBTITLE REQUIRED)

CI 731 - SEMINAR IN INTERPERSONAL COMMUNICATION (SUBTITLE REQUIRED)

CI 745 - SEMINAR IN MASS COMMUNICATION (SUBTITLE REQUIRED)

CI 751 - ADVANCED TOPICS IN COMMUNICATION THEORY CONSTRUCTION

CI 764 - ADVANCED TOPICS IN QUALITATIVE RESEARCH METHODS: (SUBTITLE REQUIRED)

CI 765 - ADVANCED SEMINAR IN COMMUNICATION RESEARCH METHODS: (SUBTITLE REQUIRED)

CI 767 - DISSERTATION RESIDENCY CREDIT

CI 768 - RESIDENCE CREDIT FOR THE MASTER' DEGREE

CI 769 - RESIDENCE CREDIT FOR DOCTOR'S DEGREE

CI 771 - SEMINAR IN HEALTH COMMUNICATION: (SUBTITLE REQUIRED)

CI 775 - SEMINAR IN HEALTH COMMUNICATION CAMPAIGNS

CI 780 - SPECIAL TOPICS IN COMMUNICATION:(SUBTITLE REQUIRED)

CI 781 - DIRECTED STUDY IN COMMUNICATION

CI 782 - SEMINAR IN STRATEGIC COMMUNICATION:(SUBTITLE REQUIRED)

CI 790 - RESEARCH PROBLEMS IN COMMUNICATION

**CIS 590 - INTERNSHIP-APPRENTICESHIP IN INSTRUCTIONAL COMMUNICATION
(SUBTITLE REQUIRED)**

CJT 690 - SPECIAL TOPICS IN LIBRARY AND INFORMATION SCIENCE

CJT 748 - MASTER'S THESIS RESEARCH

CJT 749 - DISSERTATION RESEARCH

CLA 425G - THE HEROIC IDEAL: GREEK AND ROMAN EPIC

CLA 450G - SPECIAL TOPICS IN CLASSICAL STUDIES (SUBTITLE REQUIRED)

CLA 462G - TOPICS IN CLASSICAL LITERATURE (SUBTITLE REQUIRED)

CLA 480G - STUDIES IN GREEK AND LATIN LITERATURE (SUBTITLE REQUIRED)

CLA 501 - LATIN COMPOSITION

CLA 509 - ROMAN LAW

CLA 521 - ADVANCED LATIN COMPOSITION AND READING

CLA 524 - THE LATIN LITERATURE OF THE REPUBLIC (SUBTITLE REQUIRED)

CLA 525 - THE LATIN LITERATURE OF THE EMPIRE (SUBTITLE REQUIRED)

**CLA 528 - LATE ANTIQUE AND POST-IMPERIAL LATIN LITERATURE (SUBTITLE
REQUIRED)**

CLA 551 - GREEK POETRY AND DRAMA (SUBTITLE REQUIRED)

CLA 555 - GREEK PROSE (SUBTITLE REQUIRED)

CLA 556 - GREEK DRAMATIC LITERATURE

CLA 580 - INDEPENDENT WORK IN CLASSICS

**CLA 611 - LATIN OF ANCIENT ROME AND THE MIDDLE AGES : (SUBTITLE
REQUIRED)**

**CLA 612 - LATIN OF THE MIDDLE AGES TO THE MODERN WORLD:(SUBTITLE
REQUIRED)**

CLA 615 - MANUSCRIPT CULTURES

CLA 616 - PALEOGRAPHY

CLA 624 - SEMINAR IN THE LATIN LITERATURE OF THE REPUBLIC: (SUBTITLE REQUIRED)

CLA 625 - SEMINAR IN THE LATIN LITERATURE OF THE EMPIRE (SUBTITLE REQUIRED)

CLA 628 - SEMINAR IN LATE ANTIQUE AND POST-IMPERIAL LATIN LITERATURE (SUBTITLE REQUIRED)

CLA 630 - SEMINAR IN CLASSICAL LITERATURE AND CULTURE (SUBTITLE REQUIRED)

CLA 651 - SEMINAR IN GREEK POETRY AND DRAMA (SUBTITLE REQUIRED)

CLA 655 - SEMINAR IN GREEK PROSE (SUBTITLE REQUIRED)

CLA 695 - INDEPENDENT STUDY

CLA 748 - MASTER'S THESIS RESEARCH

CLA 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

CLA 790 - RESEARCH IN THE TEACHING OF CLASSICAL LANGUAGES

CLD 517 - RURAL SOCIOLOGY

CLD 525 - COMMUNITY DIVERSITY AND MEDIA

CLD 530 - FUNDAMENTALS OF ORGANIZATIONAL LDRSHIP

CLD 534 - SOCIOLOGY OF APPALACHIA

CLD 540 - SOCIAL IMPLICATIONS OF TECHNOLOGICAL INNOVATIONS IN AGRICULTURE, FOOD AND ENVIRONMENT

CLD 560 - COMMUNITY INEQUALITIES

CLD 575 - SCHOOLS, COMMUNITY AND SOCIETY

CLD 610 - EXPERIENTIAL EDUCATION: PROCESS AND PRACTICE

CLD 620 - GRADUATE STUDY IN COMMUNITY AND LEADERSHIP DEVELOPMENT

CLD 630 - INDIVIDUAL AND GROUP DYNAMICS

CLD 640 - SCIENCE, AGRICULTURE, AND DEVELOPMENT

CLD 650 - APPLIED COMMUNITY COMMUNICATIONS

CLD 660 - ADVANCED LEADERSHIP THEORY AND PRACTICE

CLD 665 - PROGRAM DEVELOPMENT AND EVALUATION

CLD 670 - COMMUNITY ENGAGEMENT

CLD 671 - ADVANCED METHODS OF TEACHING

**CLD 672 - ADULT EDUCATION IN COMMUNITY AND LEADERSHIP
DEVELOPMENT**

CLD 673 - CURRENT TRENDS IN AGRICULTURAL EDUCATION

CLD 675 - THEORETICAL FOUNDATIONS OF COMMUNICATION AND COMMUNITY

CLD 676 - SUPERVISION IN AGRICULTURAL EDUCATION

**CLD 678 - COLLEGE TEACHING OF AGRICULTURE, NATURAL RESOURCES AND
HUMAN SCIENCES**

**CLD 684 - STATISTICAL ANALYSIS IN COMMUNITY AND LEADERSHIP
DEVELOPMENT**

CLD 685 - COMMUNITY DEVELOPMENT THEORY AND PRACTICE

CLD 686 - RESEARCH DESIGN

CLD 691 - SOCIOLOGY OF FOOD AND AGRICULTURE

CLD 694 - THE ADMINISTRATION OF AGRICULTURAL EDUCATION

CLD 748 - MASTER'S THESIS RESEARCH IN CLD

**CLD 758 - CREATIVE COMPONENT IN COMMUNITY AND LEADERSHIP
DEVELOPMENT**

CLD 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

CLD 775 - TOPICAL SEMINAR IN COMMUNITY AND LEADERSHIP DEVELOPMENT

CLD 780 - SP PROBLEMS IN COMMUNITY AND LEADERSHIP DEVELOPMENT

CLD 790 - RESEARCH IN COMMUNITY AND LEADERSHIP DEVELOPMENT

CLM 501 - PRACTICUM IN CLINICAL LEADERSHIP AND MANAGEMENT

CLM 510 - ORGANIZATION OF THE LONG-TERM CARE SECTOR

CLM 570 - MANAGING HEALTH ISSUES IN LONG-TERM CARE: TEAM APPROACH

CLM 595 - DIRECTED STUDIES

CLS 610 - ETHICS IN CLINICAL SCIENCES RESEARCH

CLS 815 - HISTOTECHNOLOGY I

CME 404G - POLYMERIC MATERIALS

CME 505 - ANALYSIS OF CHEMICAL ENGINEERING PROBLEMS

CME 515 - AIR POLLUTION CONTROL

**CME 523 - CONCEPTS, ASSESSMENT TOOLS AND METHODS IN SUSTAINABLE
POWER AND ENERGY**

CME 542 - ELECTRIC POWER GENERATION TECHNOLOGIES

CME 549 - POWER AND ENERGY EXPERIENCES

CME 550 - CHEMICAL REACTOR DESIGN

CME 552 - AUTOMOTIVE PLASTICS

CME 554 - CHEMICAL AND PHYSICAL PROCESSING OF POLYMER SYSTEMS

CME 556 - INTRODUCTION TO COMPOSITE MATERIALS

CME 558 - PRINCIPLES OF POLYMER CHARACTERIZATION AND ANALYSIS

CME 562 - INTERFACIAL ENGINEERING

CME 570 - BIONANOTECHNOLOGY: INTERFACES AND DEVICES

CME 573 - DRUG DELIVERY: ADVANCED PHARMACEUTICS

CME 575 - FUNDAMENTALS OF PHARMACEUTICAL ENGINEERING

CME 580 - DESIGN OF RATE AND EQUILIBRIUM PROCESSES FOR WATER POLLUTION CONTROL

CME 583 - FUEL SCIENCE

CME 599 - TOPICS IN CHEMICAL ENGINEERING

CME 620 - EQUILIBRIUM THERMODYNAMICS

CME 621 - NONEQUILIBRIUM THERMODYNAMICS

CME 622 - PHYSICS OF POLYMERS

CME 625 - PROPERTIES OF GASES AND LIQUIDS

CME 630 - TRANSPORT I

CME 631 - TRANSPORT II

CME 634 - PHARMACEUTICAL ENGINEERING

CME 635 - STAGED MASS TRANSFER OPERATIONS

CME 637 - BIOLOGICAL TRANSPORT PHENOMENA

CME 650 - ADVANCED CHEMICAL REACTOR DESIGN

CME 664 - MULTIDISCIPLINARY SENSORS LABORATORY

CME 671 - BASIC ELECTRODE PROCESSES IN ELECTROCHEMICAL ENGINEERING

CME 680 - BIOCHEMICAL ENGINEERING

CME 748 - MASTER'S THESIS RESEARCH

CME 749 - DISSERTATION RESEARCH

CME 767 - DISSERTATION RESIDENCY CREDIT

CME 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

CME 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

CME 771 - SEMINAR

CME 779 - MEMBRANE SCIENCES COLLOQUIUM

CME 780 - SPECIAL PROBLEMS IN CHEMICAL ENGINEERING

CME 790 - RESEARCH IN CHEMICAL ENGINEERING

CNU 500 - INTEGRATIVE CARE FOR HEALTH SCIENCES

CNU 501 - NUTRACEUTICALS AND FUNCTIONAL FOODS IN HEALTH AND DISEASE PREVENTION

CNU 502 - OBESITY C2C: CELL TO COMMUNITY (SUBTITLE REQUIRED)

CNU 503 - NUTRITION FOR HEALTH PROFESSIONS

CNU 504 - CURRENT TOPICS IN ACTIVE WOMEN'S HEALTH

CNU 506 - EXPERIENTIAL LEARNING IN WOMEN'S HEALTH: PART I

CNU 507 - EXPERIENTIAL LEARNING IN WOMEN'S HEALTH: PART II

CNU 601 - INTEGRATED NUTRITIONAL SCIENCES I

CNU 602 - INTEGRATED NUTRITIONAL SCIENCES II

CNU 603 - INTEGRATED NUTRITIONAL SCIENCES III

CNU 604 - LIPID METABOLISM

CNU 605 - ADVANCED SPORTS NUTRITION

CNU 606 - MOLECULAR BIOLOGY APPLICATIONS IN NUTRITION

CNU 608 - NUTRITIONAL IMMUNOLOGY

CNU 609 - ETHICS IN CLINICAL SCIENCES RESEARCH

CNU 611 - ADVANCED MEDICAL NUTRITION THERAPY

CNU 612 - ASSESSMENT SKILLS FOR THE CLINICAL NUTRITIONIST

CNU 613 - APPLIED NUTRITION AND DISEASE PREVENTION

CNU 689 - NUTRITION AND CHRONIC DISEASES

CNU 702 - CLINICAL/WELLNESS PROBLEM-BASED CASE STUDIES

CNU 704 - CURRENT TOPICS IN NUTRITIONAL SCIENCES

CNU 782 - SPECIAL PROBLEMS

CNU 790 - RESEARCH IN NUTRITIONAL SCIENCES

**COM 525 - ADVANCED ISSUES IN ORGANIZATIONAL COMMUNICATION:
SUBTITLE REQUIRED**

COM 535 - RISK AND CRISIS COMMUNICATION

COM 553 - MEDIA THEORY AND CRITICISM: (SR)

COM 563 - CRITICAL ANALYSIS OF SPORT MEDIA AND SOCIETY

COM 571 - INTERPERSONAL COMMUNICATION IN HEALTH CONTEXTS

COM 572 - HEALTH COMMUNICATION CAMPAIGNS AND COMMUNITIES

COM 581 - TEAMWORK AND LEADERSHIP IN ORGANIZATIONS

COM 584 - TEACHING OF COMMUNICATION

COM 591 - SPECIAL TOPICS IN COMMUNICATION (SUBTITLE REQUIRED)

CPC 501 - PERSPECTIVES IN RELIGION AND HEALTH

CPC 899 - CLINICAL PASTORAL PRACTICUM

CPE 580 - EMBEDDED SYSTEM DESIGN

CPE 584 - INTRODUCTION TO VLSI DESIGN AND TESTING

CPE 585 - FAULT TOLERANT COMPUTING

CPE 586 - COMMUNICATION AND SWITCHING NETWORKS

CPE 587 - ADVANCED EMBEDDED SYSTEMS

CPE 588 - REAL-TIME DIGITAL SYSTEMS

CPH 476G - A SICK WORLD: GLOBAL PUBLIC HEALTH IN THE EARLY 21ST CENTURY

CPH 551 - COMPARATIVE HEALTH SYSTEMS

CPH 555 - VIOLENCE, CRIME & FORENSIC EPIDEMIOLOGY

CPH 561 - INSECTS AFFECTING HUMAN & ANIMAL HEALTH

CPH 565 - SPECIAL TOPICS IN PUBLIC HEALTH: (SUBTITLE REQUIRED)

CPH 580 - BIOSTATISTICS I

CPH 600 - HEALTH SERVICES AND SYSTEMS ORGANIZATION

CPH 601 - ENVIRONMENTAL HEALTH

CPH 603 - INTRODUCTION TO DATA ANALYSIS FOR PUBLIC HEALTH

CPH 604 - FOUNDATIONS OF HEALTH BEHAVIOR I

CPH 605 - EPIDEMIOLOGY

CPH 608 - PUBLIC HEALTH CAPSTONE

CPH 609 - PUBLIC HEALTH PRACTICUM

CPH 610 - INJURY EPIDEMIOLOGY AND CONTROL

CPH 611 - TOPICS IN ADVANCED EPIDEMIOLOGY

CPH 612 - INFECTIOUS DISEASE EPIDEMIOLOGY

CPH 613 - MOLECULAR EPIDEMIOLOGY, CANCER PREVENTION AND CONTROL

CPH 614 - MANAGERIAL EPIDEMIOLOGY

CPH 615 - CANCER EPIDEMIOLOGY

CPH 617 - ENVIRONMENTAL/OCCUPATIONAL EPIDEMIOLOGY

CPH 618 - EPIDEMIOLOGY OF AGING

CPH 619 - EPIDEMIOLOGY OF THE OPIOID EPIDEMIC

CPH 620 - OCCUPATIONAL HEALTH

CPH 621 - UNDERSTANDING AND COMMUNICATING ENVIRONMENTAL HEALTH RISKS

CPH 622 - TOXIC AGENTS AND THEIR IMPLICATIONS IN PUBLIC HEALTH

CPH 623 - PUBLIC HEALTH BIOLOGY

CPH 630 - BIostatISTICS II

CPH 632 - FUNDAMENTALS OF CLINICAL RESEARCH

CPH 634 - ANALYTICS METHODS FOR HEALTHCARE DATA

CPH 640 - WOMEN'S HEALTH

CPH 641 - PUBLIC HEALTH AND ANTHROPOLOGY

CPH 642 - ECOLOGICAL AND ADVANCED HEALTH BEHAVIOR THEORY

CPH 643 - MEASURING HEALTH BEHAVIOR: QUANTITATIVE & QUALITATIVE APPROACHES

CPH 644 - RURAL HEALTH DISPARITIES

CPH 645 - FOOD SYSTEMS, MALNUTRITION AND PUBLIC HEALTH

CPH 646 - SPECIAL TOPICS IN BEHAVIORAL HEALTH:(SUBTITLE REQUIRED)

CPH 647 - RESEARCH METHODS FOR PUBLIC HEALTH

CPH 648 - ELIMINATING RACIAL & ETHNIC HEALTH DISPARITIES

CPH 649 - INDEPENDENT STUDIES IN HEALTH BEHAVIOR

CPH 650 - PUBLIC HEALTH SYSTEMS ADMINISTRATION

CPH 651 - POPULATION HEALTH: MEASUREMENT, MANAGEMENT AND IMPROVEMENT

CPH 652 - HEALTH FINANCE

CPH 653 - PUBLIC HEALTH LAW & POLICY

CPH 655 - MANAGEMENT ACCOUNTING FOR HEALTH CARE ORGANIZATIONS

CPH 658 - HEALTH ECONOMICS

CPH 660 - DISEASE MAPPING & DATA VISUALIZATION

CPH 661 - BIOETHICS FOR PUBLIC HEALTH PROFESSIONALS

CPH 662 - PUBLIC HEALTH RESPONSE TO TERRORISM, DISASTERS AND EMERGENCIES

CPH 663 - INTRODUCTION TO PUBLIC HEALTH PRACTICE AND ADMINISTRATION

CPH 665 - ETHICAL ISSUES IN CLINICAL RESEARCH

CPH 670 - INTERDISCIPLINARY PROTOCOL DEVELOPMENT

CPH 672 - EVIDENCED-BASED PUBLIC HEALTH PLANNING & PRACTICE

CPH 674 - FOUNDATIONS OF HEALTH BEHAVIOR II

CPH 680 - FUNDAMENTALS OF HEALTHCARE QUALITY AND SAFETY

CPH 681 - LEGAL ASPECTS OF HEALTHCARE MANAGEMENT

CPH 682 - QUANTITATIVE METHODS FOR HEALTHCARE MANAGEMENT

CPH 683 - OPERATIONS MANAGEMENT AND QUALITY IMPROVEMENT

CPH 684 - HUMAN RESOURCES MANAGEMENT IN HEALTHCARE

CPH 687 - ORGANIZATION THEORY AND BEHAVIOR

CPH 688 - INTERNSHIP IN HEALTH ADMINISTRATION

CPH 695 - PUBLIC HEALTH PRACTICE THROUGH SERVICE LEARNING

CPH 698 - OCCUPATIONAL SAFETY AND HEALTH: FIELD SURVEYS

CPH 701 - CURRENT ISSUES IN PUBLIC HEALTH

CPH 709 - GLOBAL HEALTH INTERNSHIP

CPH 710 - ADVERSE EVENTS IN HEALTHCARE: EPIDEMIOLOGY AND PREVENTION

CPH 711 - CHRONIC DISEASE EPIDEMIOLOGY

CPH 712 - ADVANCED EPIDEMIOLOGY

CPH 713 - PHARMACOEPIDEMOLOGY

CPH 714 - MATERNAL AND CHILD HEALTH INFORMATION AND DATA SYSTEMS

CPH 715 - PERINATAL EPIDEMIOLOGY

CPH 716 - PROSEMINAR IN OCCUPATIONAL HEALTH AND SAFETY

CPH 718 - SPECIAL TOPICS IN EPIDEMIOLOGY: (SUBTITLE REQUIRED)

CPH 719 - INDEPENDENT STUDIES IN EPIDEMIOLOGY

CPH 720 - HEALTH OF AGRICULTURAL POPULATIONS

CPH 725 - CLINICAL PREVENTIVE SERVICES

CPH 728 - SPECIAL TOPICS IN OCCUPATIONAL/ENVIRONMENTAL HEALTH: (SUBTITLE REQUIRED)

CPH 729 - INDEPENDENT STUDIES IN OCCUPATIONAL/ENVIRONMENTAL HEALTH

CPH 738 - SPECIAL TOPICS IN BIOSTATISTICS:(SUBTITLE REQUIRED)

CPH 739 - INDEPENDENT STUDIES IN BIOSTATISTICS

CPH 740 - INTRODUCTION TO MATERNAL AND CHILD HEALTH

CPH 746 - RESEARCH METHODS AND PROGRAM EVALUATION FOR HEALTH BEHAVIOR

CPH 748 - RESEARCH

CPH 752 - LEADERSHIP IN HEALTH ORGANIZATIONS

CPH 754 - HEALTH CARE ACCESS AND COVERAGE

CPH 755 - LEADING CHANGE WITH HEALTHCARE TEAMS

CPH 758 - SPECIAL TOPICS IN HEALTH MAGEMENT POLICY (SUBTITLE REQUIRED)

CPH 759 - INDEPENDENT STUDIES IN HEALTH MANAGEMENT POLICY

CPH 763 - ETHICS FOR PUBLIC HEALTH

CPH 767 - DISSERTATION RESIDENCY CREDIT

CPH 768 - RESIDENCY CREDIT FOR MASTER'S DEGREE

CPH 776 - INTRODUCTION TO GLOBAL PUBLIC HEALTH

CPH 778 - SPECIAL TOPICS IN PUBLIC HEALTH: (SUBTITLE REQUIRED)

CPH 779 - INDEPENDENT STUDIES IN PUBLIC HEALTH

CPH 780 - STRATEGIC PLANNING AND MARKETING IN HEALTHCARE

CPH 781 - HEALTHCARE ETHICS AND GOVERNANCE

CPH 782 - INFORMATION SYSTEMS IN HEALTH CARE

CPH 783 - APPLICATIONS IN HEALTHCARE FINANCE AND OPERATIONS

CPH 784 - CASE STUDIES IN HEALTH ADMINISTRATION

CPH 785 - HEALTH POLICY

CPH 786 - DOCTORIAL SEMINAR

CPH 787 - INDEPENDENT STUDY IN HEALTH ADMINISTRATION

CPH 788 - SPECIAL TOPICS IN HEALTH ADMINISTRATION

CPH 790 - WATER, SANITATION, AND HEALTH

CPH 815 - CLINICAL EPIDEMIOLOGY

CPH 841 - ORIENTATION TO MEDICAL BEHAVIORAL SCIENCE

CPH 858 - HEALTH ECONOMICS

CPH 901 - PUBLIC HEALTH DOCTORAL PROFESSIONAL COLLOQUIUM

CPH 910 - ADVANCED EPIDEMIOLOGY

CPH 911 - PROFESSIONAL SEMINAR IN EPIDEMIOLOGY

CPH 920 - ADVANCED ENVIRONMENTAL HEALTH

CPH 921 - PROFESSIONAL SEMINAR IN ENVIRONMENTAL HEALTH.

CPH 930 - BIostatISTICS CONCEPTS FOR THE PUBLIC HEALTH PRACTITIONER

CPH 931 - PROFESSIONAL SEMINAR IN BIostatISTICS

CPH 940 - HEALTH-RELATED BEHAVIORS: MODELS AND APPLICATIONS

CPH 941 - PROFESSIONAL SEMINAR IN HEALTH ENHANCEMENT

CPH 942 - PUBLIC HEALTH COMMUNICATION

CPH 949 - DOCTORAL CAPSTONE RESEARCH

CPH 950 - WELL MANAGED PUBLIC HEALTH CARE ORGANIZATION

CPH 951 - PROFESSIONAL SEMINAR IN PUBLIC HEALTH MANAGEMENT AND PRACTICE

CPH 952 - SEMINAR IN ADVANCED LEADERSHIP

CPH 953 - SEMINAR IN ETHICAL AND MORAL DECISION-MAKING

CPH 954 - SEMINAR IN ADVANCED PUBLIC HEALTH FINANCE & ECONOMICS

CPH 955 - PLAGUES AND POLITICS

CPH 956 - PROGRAM EVALUATION FOR PUBLIC HEALTH PROFESSIONALS AND LEADERS

CPH 960 - THE BIOLOGY OF AGING

CPH 961 - A STUDY OF THE OLDER PERSON

CPH 993 - PROFESSIONAL SEMINAR IN FOUNDATIONS OF PUBLIC HEALTH PRACTICE

CPH 994 - PROFESSIONAL SEMINAR IN LEADING PEOPLE - MANAGING CHANGE

CPH 995 - DOCTORAL SEMINAR IN PUBLIC HEALTH RESEARCH METHODS

CPH 996 - PUBLIC HEALTH PROJECT OR DISSERTATION RESEARCH

CPH 997 - DOCTORAL PUBLIC HEALTH FIELD PRACTICUM

CPH 998 - SPECIAL TOPICS IN PUBLIC HEALTH (SUBTITLE REQUIRED)

CPH 999 - DIRECTED STUDIES IN PUBLIC HEALTH

CS 405G - INTRODUCTION TO DATABASE SYSTEMS

CS 415G - COMBINATORICS AND GRAPH THEORY

CS 416G - INTRODUCTION TO OPTIMIZATION

CS 441G - COMPILERS FOR ALGORITHMIC LANGUAGES

CS 450G - FUNDAMENTALS OF PROGRAMMING LANGUAGES

CS 460G - MACHINE LEARNING

CS 463G - INTRODUCTION TO ARTIFICIAL INTELLIGENCE

CS 470G - INTRODUCTION TO OPERATING SYSTEMS

CS 471G - NETWORKING AND DISTRIBUTED OPERATING SYSTEMS

CS 480G - ADVANCED COMPUTER ARCHITECTURE

CS 485G - TOPICS IN COMPUTER SCIENCE (SUBTITLE REQUIRED)

CS 505 - INTERMEDIATE TOPICS IN DATABASE SYSTEMS

CS 515 - ALGORITHM DESIGN

CS 521 - COMPUTATIONAL SCIENCES

CS 522 - MATRIX THEORY AND NUMERICAL LINEAR ALGEBRA I

CS 535 - INTERMEDIATE COMPUTER GRAPHICS

CS 536 - SITUATED COMPUTING

CS 537 - NUMERICAL ANALYSIS

CS 541 - COMPILER DESIGN

CS 555 - DECLARATIVE PROGRAMMING

CS 564 - COMPUTER SECURITY

CS 570 - MODERN OPERATING SYSTEMS

CS 571 - COMPUTER NETWORKS

CS 572 - NETWORK SECURITY

CS 575 - MODELS OF COMPUTATION

CS 585 - INTERMEDIATE TOPICS IN COMPUTER SCIENCE (SUBTITLE REQUIRED)

CS 587 - ADVANCED EMBEDDED SYSTEMS

CS 610 - MASTER'S PROJECT

CS 611 - RESEARCH IN COMPUTER SCIENCE

CS 612 - INDEPENDENT WORK IN COMPUTER SCIENCE

CS 616 - SOFTWARE ENGINEERING

CS 617 - REQUIREMENTS ENGINEERING

CS 618 - SOFTWARE DESIGN

CS 619 - SOFTWARE TESTING AND QUALITY EVALUATION

CS 621 - PARALLEL AND DISTRIBUTED COMPUTING

CS 622 - MATRIX THEORY AND NUMERICAL LINEAR ALGEBRA II

CS 623 - PARALLEL ITERATIVE COMPUTING

CS 626 - LARGE SCALE DATA SCIENCE

CS 628 - DATA MINING

CS 630 - FREE-FORM SOLID MODELING

CS 631 - COMPUTER-AIDED GEOMETRIC DESIGN

CS 633 - 3D COMPUTER ANIMATION

CS 634 - MULTIMEDIA SYSTEMS

CS 635 - IMAGE PROCESSING

CS 636 - COMPUTER VISION

CS 637 - EXPLORING VIRTUAL WORLDS

CS 642 - DISCRETE EVENT SYSTEMS

CS 655 - PROGRAMMING LANGUAGES

CS 660 - TOPICS IN ARTIFICIAL INTELLIGENCE (SUBTITLE REQUIRED)

CS 663 - ARTIFICIAL INTELLIGENCE

CS 670 - DISTRIBUTED OPERATING SYSTEM THEORY

CS 671 - ADVANCED COMPUTER NETWORKS

CS 673 - ERROR CORRECTING CODES

CS 674 - HEURISTIC ALGORITHMS

CS 675 - COMPUTABILITY AND COMPLEXITY

CS 676 - PARALLEL ALGORITHMS

CS 677 - COMPUTATIONAL GEOMETRY

CS 678 - CRYPTOGRAPHY

CS 680 - SEMINAR IN COMPUTER SCIENCE

CS 682 - SWITCHING THEORY

CS 683 - FINITE-STATE MACHINES

CS 684 - SPECIAL TOPICS IN VISION, GRAPHICS AND MULTIMEDIA (Subtitle required)

CS 685 - SPECIAL TOPICS IN COMPUTER SCIENCE (SUBTITLE REQUIRED)

CS 686 - SPECIAL TOPICS IN THE THEORY OF COMPUTATION (SUBTITLE REQUIRED)

CS 687 - SPECIAL TOPICS IN SYSTEMS

CS 688 - NEURAL NETWORKS

CS 689 - SPECIAL TOPICS IN NUMERICAL AND SCIENTIFIC COMPUTATION (SUBTITLE REQUIRED)

CS 690 - OPERATING SYSTEMS THEORY

CS 748 - MASTER'S THESIS RESEARCH

CS 749 - DISSERTATION RESEARCH

CS 767 - DISSERTATION RESIDENCY CREDIT

CS 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE.

CS 769 - RESIDENCE CREDIT FOR DOCTOR'S DEGREE

CSC 528 - LABORATORY TECHNIQUES FOR CLINICAL SCIENCE STUDENTS

CSC 600 - HUMAN PATHOPHYSIOLOGY

CSC 601 - HEALTH CARE POLICY AND ETHICS

CSC 602 - CLINICAL SCIENCES SEMINAR (SUBTITLE REQUIRED)

CSC 604 - RESEARCH METHODS FOR THE CLINICAL SCIENCES

CSC 606 - ADVANCED LABORATORY STATISTICS AND ADMINISTRATIVE ANALYSIS

CSC 615 - REPRODUCTIVE LABORATORY SCIENCE

CSC 616 - ANDROLOGY

CSC 617 - REPRO MICROBIOLOGY AND IMMUNOLOGY

CSC 618 - LABS IN ANDROLOGY, REPRODUCTIVE MICROBIOLOGY AND IMMUNOLOGY

CSC 621 - EMBRYOLOGY & ART

CSC 624 - CRYOPRESERVATION OF REPRODUCTIVE TISSUES

CSC 625 - POLICY, MANAGEMENT, ETHICAL AND LEGAL ISSUES IN ASSISTED REPRODUCTION

CSC 626 - ANDROLOGY CLINICAL PRACTICUM

CSC 627 - ART CLINICAL PRACTICUM

CSC 628 - RLS SEMINAR

CSC 630 - RLS RESEARCH

CSC 670 - HISTOCOMPATIBILITY AND IMMUNOGENETICS

CSC 672 - TRANSPLANTATION SCIENCE

CSC 673 - FLOW CYTOMETRY

CSC 674 - HEMOPOIESIS

CSC 676 - ADVANCED HEMOSTASIS

CSC 677 - ERYTHROCYTE DISORDERS

CSC 690 - CLINICAL SCIENCES THESIS RESEARCH

CSC 749 - DISSERTATION RESEARCH

CSC 767 - DISSERTATION RESIDENCY CREDIT

CSC 789 - RESEARCH APPRENTICESHIP

CSC 790 - CLINICAL SCIENCES DISSERTATION RESEARCH

CSD 500 - INTEGRATIVE CARE FOR HEALTH SCIENCES

CSD 555 - PROBLEMS IN COMMUNICATION DISORDERS (SUBTITLE REQUIRED)

CSD 571 - NEURAL BASES OF SPEECH, LANGUAGE, AND HEARING

CSD 588 - VARIABLE TOPICS IN COMMUNICATION DISORDERS: SUBTITLE REQUIRED

CSD 589 - INDEPENDENT STUDY IN COMMUNICATION DISORDERS

CSD 591 - AURAL REHABILITATION

CSD 610 - ETHICS IN CLINICAL SCIENCES RESEARCH

CSD 621 - AUGMENTATIVE AND ALTERNATIVE COMMUNICATION

CSD 647 - LANGUAGE DISORDERS IN DEVELOPMENTALLY YOUNG INDIVIDUALS

CSD 648 - LANGUAGE DISORDERS IN SCHOOL-AGE POPULATIONS

CSD 649 - COMMUNICATION, AAC, AND TECHNOLOGY FOR INDIVIDUALS WITH AUTISM SPECTRUM DISORDERS

CSD 654 - CLINICAL ORIENTATION IN COMMUNICATION DISORDERS

CSD 657 - CLINICAL PRACTICUM IN SPEECH-LANGUAGE PATHOLOGY

CSD 659 - CLINICAL ROTATION IN SPEECH-LANGUAGE PATHOLOGY

CSD 661 - PHONOLOGICAL DEVELOPMENT AND DISORDERS

CSD 670 - VOICE DISORDERS

CSD 674 - DISORDERS OF FLUENCY

CSD 675 - LOW INCIDENCE COM DISORDERS: SR

CSD 677 - APHASIA AND RELATED DISORDERS

CSD 701 - RESEARCH METHODS IN COMMUNICATION DISORDERS

CSD 706 - ADVANCED AUDIOLOGICAL ISSUES IN PEDIATRICS

CSD 708 - ADVANCED AUDIOLOGICAL ISSUES IN GERIATRICS

CSD 710 - COGNITIVE COMMUNICATION DISORDERS

CSD 720 - PROFESSIONAL ISSUES IN SPEECH LANGUAGE PATHOLOGY

CSD 744 - ADULT SWALLOWING DISORDERS

CSD 745 - PEDIATRIC FEEDING

CSD 746 - MOTOR SPEECH DISORDERS

CSD 748 - MASTER'S THESIS RESEARCH

CSD 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

CSD 773 - SEMINAR IN MOTOR SPEECH DISORDERS

CSD 774 - SEMINAR IN ADULT SPEECH AND LANGUAGE

CSD 788 - VARIABLE TOPICS IN COMMUNICATION DISORDERS: (SR)

CSD 789 - INDEPENDENT STUDY IN COMMUNICATION DISORDERS

DHN 408G - SEMINAR IN DIETETICS AND HUMAN NUTRITION

DHN 510 - ADVANCED NUTRITION

DHN 512 - MEDICAL NUTRITION THERAPY I

DHN 514 - DIETETICS: COUNSELING AND COMMUNICATION THEORIES AND APPLICATIONS

DHN 515 - MEDICAL NUTRITION THERAPY

DHN 516 - MATERNAL AND CHILD NUTRITION

DHN 517 - MEDICAL NUTRITION THERAPY II

DHN 518 - EVALUATION OF DIETETIC ISSUES AND LEADERSHIP

DHN 520 - MEDICAL NUTRITION THERAPY I: SUPERVISED PRACTICE

DHN 522 - FOOD SERVICE SYSTEMS MANAGEMENT I: SUPERVISED PRACTICE

DHN 524 - FOOD SERVICE SYSTEMS MANAGEMENT II: SUPERVISED PRACTICE

DHN 526 - MEDICAL NUTRITION THERAPY II: SUPERVISED PRACTICE

DHN 528 - COMMUNITY NUTRITION I: SUPERVISED PRACTICE

DHN 530 - COMMUNITY NUTRITION II: SUPERVISED PRACTICE

DHN 580 - INTRODUCTION TO EVIDENCE-BASED PRACTICE IN DIETETICS

DHN 581 - APPLIED EVIDENCE-BASED PRACTICE IN DIETETICS

DHN 591 - SPECIAL PROBLEMS IN DIETETICS AND HUMAN NUTRITION

DHN 597 - OBESITY AND FOOD INSECURITY PARADIGM: FROM CELL TO SOCIETY

DHN 598 - GLOBAL FOODS, DIET AND CULTURE

DHN 599 - INTRODUCTION TO CULINARY MEDICINE

DHN 600 - RESEARCH METHODS IN NUTRITION AND FOOD SYSTEMS

DHN 603 - ADVANCED COMMUNITY PROGRAM DEVELOPMENT

DHN 605 - FOOD SYSTEMS AND SOCIETY

DHN 607 - FOOD RELATED BEHAVIORS

DHN 608 - CHRONIC DISEASE MANAGEMENT AND PROCESS

DHN 610 - MARKETING IN HOSPITALITY AND DIETETICS

DHN 620 - NUTRITION AND AGING

DHN 630 - ADVANCED COMMUNITY NUTRITION

DHN 640 - HUMAN NUTRITION: ASSESSMENT

DHN 648 - MANAGEMENT OF HOSPITALITY AND DIETETICS ORGANIZATIONS

DHN 680 - ADVANCED EVIDENCE-BASED PRACTICE IN DIETETICS

DHN 690 - ADVANCED WORK IN DIETETICS

DHN 704 - CURRENT TOPICS IN NUTRITIONAL SCIENCES

DHN 720 - DIETETICS SUPERVISED PRACTICE: MEDICAL NUTRITION THERAPY I

DHN 722 - DIETETICS SUPERVISED PRACTICE: FOOD SERVICE SYSTEMS MANAGEMENT I

DHN 724 - DIETETICS SUPERVISED PRACTICE: FOOD SERVICE SYSTEMS MANAGEMENT II

DHN 726 - DIETETICS SUPERVISED PRACTICE: MEDICAL NUTRITION THERAPY II

DHN 728 - DIETETICS SUPERVISED PRACTICE: COMMUNITY NUTRITION I

DHN 730 - DIETETICS SUPERVISED PRACTICE: COMMUNITY NUTRITION II

DHN 748 - MASTER'S THESIS RESEARCH

DHN 768 - RESIDENCE CREDIT FOR THE MASTERS DEGREE

DHN 770 - SEMINAR IN HOSPITALITY AND DIETETICS ADMINISTRATION

DHN 772 - CURRENT TOPICS IN HOSPITALITY AND DIETETICS ADMINISTRATION

DHN 774 - SEMINAR IN NUTRITION AND FOOD SYSTEMS

DHN 782 - SPECIAL PROBLEMS

DHN 784 - SPECIAL PROBLEMS IN FINANCIAL MANAGEMENT

DHN 790 - RESEARCH IN NUTRITIONAL SCIENCES

DIP 600 - SPECIAL TOPICS

DIP 700 - DYNAMICS OF DIPLOMACY

DIP 710 - GREAT BOOKS OF WORLD POLITICS

DIP 712 - WEAK STATES AND INTERNATIONAL SECURITY

DIP 715 - DEMOCRACY AND INTERNATIONAL AFFAIRS

DIP 716 - INTERNATIONAL TRADE POLICY AND PRACTICE

DIP 720 - ECONOMIC STATECRAFT

DIP 725 - GEOPOLITICAL MODELING

DIP 726 - INTRODUCTION TO INTELLIGENCE

DIP 727 - ANALYTICAL METHODS FOR INTELLIGENCE ANALYSIS

DIP 730 - CROSS-CULTURAL NEGOTIATION AND BARGAINING

DIP 734 - AFRICA'S DEVELOPMENT CHALLENGES

DIP 735 - ENERGY SECURITY

DIP 740 - GLOBALIZATION

DIP 742 - NATIONAL SECURITY POLICY

DIP 748 - MASTER'S THESIS RESEARCH

DIP 750 - DEFENSE STATECRAFT

DIP 755 - POLITICS AND DIPLOMACY OF THE MIDDLE EAST

DIP 756 - DIPLOMACY OF NUCLEAR WEAPONS

DIP 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

DIP 777 - RESEARCH PROBLEMS IN INTERNATIONAL RELATIONS

DIP 780 - INTERNATIONAL SCIENCE AND TECHNOLOGY POLICY

**DIP 795 - SPECIAL PROBLEMS IN DIPLOMACY AND INTERNATIONAL
COMMERCE**

DIS 600 - PRODUCTION MANAGEMENT

DIS 612 - SUPPLY CHAIN OPERATIONS

DIS 620 - MANAGEMENT INFORMATION SYSTEMS IN DECISION MAKING

DIS 621 - BUSINESS EXPERT SYSTEMS

DIS 622 - BUSINESS DATA SYSTEM ANALYSIS AND DESIGN

DIS 623 - BUSINESS DECISION SUPPORT SYSTEMS

DIS 624 - MANAGEMENT OF INFORMATION RESOURCES

DIS 651 - QUANTITATIVE ANALYSIS IN BUSINESS DECISION MAKING

DIS 695 - INDIVIDUAL WORK IN DSIS

DIS 700 - TOPICS IN OPERATIONS MANAGEMENT

DIS 720 - MANAGEMENT INFORMATION SYSTEMS THEORY

DIS 751 - MANAGEMENT SCIENCE II

DIS 752 - TOPICS IN OPTIMIZATION

DIS 753 - SEMINAR IN MANAGEMENT SCIENCE

DIS 780 - STUDIES IN DECISION SCIENCE AND INFORMATION SYSTEMS

DIS 790 - SPECIAL TOPICS IN MANAGEMENT DECISION SYSTEMS (SUBTITLE REQUIRED)

DMT 520 - TEXTILES FOR INTERIORS

DMT 759 - SPECIAL TOPICS IN INTERIOR DESIGN, MERCHANDISING, AND TEXTILES (SUBTITLE REQUIRED)

DR 801 - VASCULAR AND INTERVENTIONAL RADIOLOGY ELECTIVE

DR 815 - FIRST YR ELEC IN RADIOLOGY

DR 825 - SECOND YR ELEC DIAGNOSTIC RADIOLOGY

DR 849 - ELECTIVE: EXTRAMURAL ROTATION IN DIAGNOSTIC RADIOLOGY

DR 850 - ELECTIVE: DIAGNOSTIC RADIOLOGY

DR 851 - RESEARCH IN DIAGNOSTIC RADIOLOGY

DR 855 - NUCLEAR MEDICINE

DR 856 - PEDIATRIC RADIOLOGY

DR 890 - ELECTIVE: RADIOLOGY OFF-SITE

DR 901 - RADIOLOGY AT MOREHEAD

DS 501 - FUNDAMENTALS OF DATA SCIENCE

DS 710 - RESEARCH SEMINAR IN DATA SCIENCE

DS 711 - MASTERS PROJECT IN DATA SCIENCE

DX1 523 - DIAG RAD @ NJ MED SCH

DX1 580 - DIAG RAD @ DUKE UNIV

DX1 582 - DIAG RAD @ BOWMAN GRAY

DX1 601 - DIAG RAD @ UNIV OF CIN

DX1 667 - DIA RADIOLOGY @ JEFFERSON MED COL

DX1 680 - DIAG RAD @ MED UNIV S CAR

DX1 703 - DIAG RAD @ VANDERBILT UNIV

DX1 726 - DIAG RAD @ UNIV OF TX HOUSTON

DX1 739 - DIAG RAD @ LACKLAND AFB, TX

DX1 780 - DIAG RAD @ UNIV OF VA

DX1 800 - DIAG RAD @ UNIV OF WASH

DX1 801 - DIAG RAD @ MADIGAN ARMY MED CTR

DX1 907 - DIAG RAD @ KING'S COL LONDON

DX4 584 - NEURORADIOLOGY @ U OF N CAR CHAPEL HILL

EAP 400G - EDUCATION ABROAD ON UK-SPONSORED PROGRAM

EAP 410G - EDUCATION ABROAD ON EXCHANGE PROGRAM: COST

EAP 431G - EDUCATION ABROAD ON EXCHANGE PROGRAM: TFE

EAP 432G - EDUCATION ABROAD ON EXCHANGE PROGRAM: TLM

EAP 433G - EDUCATION ABROAD ON EXCHANGE PROGRAM: TLO

EAP 434G - EDUCATION ABROAD ON EXCHANGE PROGRAM: TMO

EAP 435G - EDUCATION ABROAD ON EXCHANGE PROGRAM: TPE

EAP 436G - EDUCATION ABROAD ON EXCHANGE PROGRAM: ISEP

EAP 437G - EDUCATION ABROAD ON EXCHANGE PROGRAM: DES

EAP 438G - EDUCATION ABROAD ON EXCHANGE PROGRAM: HSC

EAP 440G - EDUCATION ABROAD ON EXCHANGE PROGRAM: BUS

EAP 441G - EDUCATION ABROAD ON EXCHANGE PROGRAM: BAE

EAP 442G - EDUCATION ABROAD ON EXCHANGE PROGRAM: EGR

EAP 443G - EDUCATION ABROAD ON EXCHANGE PROGRAM: CHS

EAP 444G - EDUCATION ABROAD ON EXCHANGE PROGRAM: ASH

EAP 445G - EDUCATION ABROAD ON EXCHANGE PROGRAM: FAH

EAP 446G - EDUCATION ABROAD ON EXCHANGE PROGRAM: PH

EAP 447G - EDUCATION ABROAD EXCHANGE PROGRAM: ED

EAP 448G - EDUCATION ABROAD EXCHANGE PROGRAM: CIS

EAP 449G - EDUCATION ABROAD EXCHANGE PROGRAM: SW

EAP 533 - EDUCATION ABROAD ON EXCHANGE PROGRAM: TFE

EAP 543 - EDUCATION ABROAD ON EXCHANGE PROGRAM: TFE

EAP 599 - STUDY ABROAD

ECO 430G - COST BENEFIT ANALYSIS

ECO 450G - THE ECONOMICS OF POVERTY AND INEQUALITY

ECO 473G - ECONOMIC DEVELOPMENT

ECO 491G - APPLIED ECONOMETRICS

ECO 590 - INTRODUCTION TO QUANTITATIVE ECONOMICS I

ECO 601 - ADVANCED MICROECONOMIC THEORY

ECO 602 - MACROECONOMIC THEORY

ECO 603 - RESEARCH METHODS AND PROCEDURES IN ECONOMICS

ECO 610 - MANAGERIAL ECONOMICS

ECO 611 - MONEY, FINANCIAL MARKETS, AND THE ECONOMY

ECO 619 - SKILL DEVELOPMENT FOR APPLIED ECONOMIC ANALYSIS

ECO 621 - APPLIED MICROECONOMICS

ECO 622 - MACROECONOMICS FOR APPLIED ECONOMISTS

ECO 623 - ECONOMETRICS FOR APPLIED ECONOMICS

ECO 624 - EMPIRICAL DATA MANAGEMENT

ECO 625 - PREDICTIVE MODELS AND FORECASTING

ECO 631 - BUSINESS ECONOMICS

ECO 652 - PUBLIC POLICY ECONOMICS

ECO 653 - HEALTH ECONOMICS

ECO 654 - BENEFIT-COST ANALYSIS

ECO 672 - WORLD TRADE AND COMMERCIAL POLICY

ECO 674 - AGRICULTURE AND ECONOMIC DEVELOPMENT

ECO 679 - ECONOMICS OF THE PUBLIC SECTOR

ECO 692 - ECONOMETRICS FOR POLICY ANALYSTS

ECO 697 - FINAL PROJECT IN APPLIED ECONOMICS

ECO 700 - TEACHING METHODS IN BUSINESS

ECO 701 - NEOCLASSICAL MICROECONOMIC THEORY

ECO 702 - ADVANCED MACROECONOMIC THEORY

ECO 703 - INTRODUCTION TO ECONOMETRICS I

ECO 704 - GENERAL EQUILIBRIUM ANALYSIS AND WELFARE ECONOMICS

ECO 705 - MACROECONOMIC DYNAMICS

ECO 706 - INTRODUCTION TO ECONOMETRICS II

ECO 707 - RESEARCH SEMINAR IN ECONOMICS

ECO 715 - HISTORY OF ECONOMIC THOUGHT

ECO 721 - ENVIRONMENTAL ECONOMICS, REGULATION AND POLICY

ECO 724 - ENVIRONMENTAL ECONOMICS

ECO 725 - HEALTH ECONOMICS

ECO 726 - ENVIRONMENTAL AND NATURAL RESOURCE ECONOMICS

ECO 731 - LABOR ECONOMICS I

ECO 732 - LABOR ECONOMICS II

ECO 741 - THEORY OF THE FIRM AND MARKET STRUCTURE

ECO 742 - INDUSTRIAL ORGANIZATION

ECO 749 - DISSERTATION RESEARCH

ECO 751 - PUBLIC ECONOMICS

ECO 752 - ADVANCED TOPICS IN PUBLIC FINANCE

ECO 753 - URBAN AND REGIONAL ECONOMICS

ECO 761 - MACRO AND MONETARY ECONOMICS I

ECO 762 - MACRO AND MONETARY ECONOMICS II

ECO 767 - DISSERTATION RESIDENCY CREDIT

ECO 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE.

ECO 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

ECO 771 - INTERNATIONAL ECONOMICS:INTERNATIONAL MONEY AND FINANCE

ECO 772 - INTERNATIONAL ECONOMICS: TRADE THEORY AND POLICY

ECO 773 - OPEN ECONOMY MACROECONOMICS

ECO 781 - OPTIMIZATION AND ECONOMIC THEORY I

ECO 782 - OPTIMIZATION AND ECONOMIC THEORY II

ECO 790 - TIME SERIES ANALYSIS

ECO 792 - ECONOMETRICS I

ECO 793 - ECONOMETRICS II

ECO 796 - SEMINAR

ECO 797 - RESEARCH PROBLEMS IN ECONOMICS

EDC 454G - CULTURE, EDUCATION AND TEACHING ABROAD

EDC 501 - TEACHING INTERNSHIP

EDC 504 - LITERATURE AND RELATED MEDIA FOR YOUNG ADULTS

EDC 509 - COMPOSITION FOR TEACHERS

EDC 510 - STDS IN ENG FOR TCHS(SR)

EDC 513 - TEACHING ENGLISH AS A SECOND LANGUAGE

EDC 514 - TESL MATERIALS AND METHODS

EDC 520 - ASSESSMENT AND ACCOUNTABILITY IN MIDDLE LEVEL EDUCATION

EDC 522 - PSYCHOLOGICAL AND EDUCATIONAL TESTS AND MEASUREMENTS

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EE 468G - INTRODUCTION TO ENGINEERING ELECTROMAGNETICS

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EE 584 - INTRODUCTION TO VLSI DESIGN AND TESTING

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EES 420G - STRUCTURAL GEOLOGY

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EES 513 - REMOTE SENSING AND AERIAL PHOTOGRAPHY

EES 530 - LOW TEMPERATURE GEOCHEMISTRY

EES 550 - FUNDAMENTAL GEOPHYSICS

EES 552 - SEDIMENTARY PETROLOGY

EES 555 - STRATIGRAPHY

EES 560 - GEOPHYSICAL FIELD METHODS

EES 570 - SEMINAR IN GEOLOGICAL SCIENCES (SUBTITLE REQUIRED)

EES 575 - GEODYNAMICS

EES 585 - HYDROGEOLOGY

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EES 624 - ADVANCED STRUCTURAL GEOLOGY

EES 625 - TOPICS IN GEOPHYSICS

EES 626 - GRAVITY AND MAGNETIC METHODS

EES 630 - STABLE ISOTOPES IN THE ENVIRONMENT

EES 645 - TOPICS IN PETROLOGY AND GEOCHEMISTRY (SUBTITLE REQUIRED)

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EES 655 - MUD AND MUDSTONES

EES 670 - EXPLORATION SEISMOLOGY

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EES 741 - CLAY MINERALOGY

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EGR 521 - RENEWABLE ENERGY

**EGR 523 - CONCEPTS, ASSESSMENT TOOLS AND METHODS IN SUSTAINABLE
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EGR 540 - POWER ECONOMICS AND PUBLIC POLICY

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EGR 549 - POWER AND ENERGY EXPERIENCES

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END 716 - GRADUATE ENDODONTICS RESEARCH PROJECT I

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END 763 - ADVANCED CLINICAL ENDODONTICS I

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ENG 460G - STUDIES IN AFRICAN-AMERICAN LITERATURE: (SUBTITLE REQUIRED)

ENG 470G - COMPARATIVE AND TRANSNATIONAL STUDIES IN LITERATURE: (SUBTITLE REQUIRED)

ENG 480G - STUDIES IN FILM: (SUBTITLE REQUIRED)

ENG 490G - STUDIES IN LITERATURE AND GENDER: (SUBTITLE REQUIRED)

ENG 491G - STUDIES IN THEORY:(SUBTITLE REQUIRED)

ENG 492G - CULTURAL STUDIES:(SUBTITLE REQUIRED)

ENG 502 - TECHNOLOGY IN LITERATURE AND FILM

ENG 507 - ADVANCED WORKSHOP IN CREATIVE WRITING (SUBTITLE REQUIRED)

ENG 509 - COMPOSITION FOR TEACHERS

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ENG 514 - TESL MATERIALS AND METHODS

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ENG 771 - SEMINAR IN SPECIAL TOPICS: SUBTITLE REQUIRED

ENG 780 - DIRECTED STUDIES

ENG 781 - SEMINAR IN FILM (SUBTITLE REQUIRED)

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ENS 602 - ENVIRONMENT AND SUSTAINABILITY POLICY AND GOVERNANCE

ENS 603 - COMMUNICATING ENVIRONMENTAL AND SUSTAINABILITY STUDIES

**ENS 605 - SEMINAR IN ENVIRONMENTAL AND SUSTAINABILITY STUDIES:
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**ENS 696 - REPORTING RESEARCH IN APPLIED ENVIRONMENTAL AND
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ENT 550 - SPIDER ECOLOGY AND BEHAVIOR

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EPE 520 - PROGRAM EVALUATION

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EPE 525 - SPECIAL TOPICS SEMINAR IN EDUCATIONAL POLICY STUDIES AND EVALUATION (SUBTITLE REQUIRED)

EPE 555 - COMPARATIVE EDUCATION

EPE 557 - GATHERING, ANALYZING, AND USING EDUCATIONAL DATA

EPE 558 - GATHERING, ANALYZING & USING EDUCATIONAL DATA II

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EPE 601 - PROSEMINAR

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ER1 611 - EMER MED @ WRIGHT PATTERSON AFB

ER1 641 - EMER MED @ OREGON HLTH SCI UNIV

ER1 660 - EMER MED @ GEISINGER MED CTR

ER1 669 - EMER MED @ UNIV OF PITTSBURGH

ER1 670 - EMER MED @ ALLEGHENY GEN HOSP

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ER1 703 - EMER MED @ VANDERBILT UNIV

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FOR 612 - FOREST ECOSYSTEM DYNAMICS

FOR 620 - SPECIAL TOPICS IN FORESTRY (SUBTITLE REQUIRED)

FOR 622 - PHYSIOLOGY OF PLANTS I

FOR 623 - PHYSIOLOGY OF PLANTS II

FOR 662 - QUANTITATIVE METHODS IN RENEWABLE RESOURCE MANAGEMENT

FOR 663 - SPECIAL ANALYSIS IN NATURAL RESOURCES

FOR 667 - INVASIVE SPECIES BIOLOGY

FOR 695 - FIELD RESEARCH IN FORESTRY

FOR 748 - MASTER'S THESIS RESEARCH

FOR 767 - DISSERTATION RESIDENCY CREDIT

FOR 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

FOR 770 - FORESTRY SEMINAR (SUBTITLE REQUIRED)

FOR 781 - SPECIAL PROBLEMS IN FORESTRY

FOR 791 - RESEARCH IN FORESTRY

FR 470G - TOPICAL SEMINAR I: (SUBTITLE REQUIRED)

FR 471G - TOPICAL SEMINAR II: (SUBTITLE REQUIRED)

FR 501 - FRENCH LITERATURE AND THE ARTS: THE MIDDLE AGES

FR 502 - FRENCH CRITICAL THEORY

FR 504 - TOPICS IN FRENCH LITERATURE AND CULTURE (SUBTITLE REQUIRED)

FR 510 - LINGUISTIC STRUCTURE OF MODERN FRENCH

FR 516 - INTRODUCTION TO EARLY FRENCH

FR 553 - TEACHING OF FRENCH

FR 570 - SEMINAR IN FRENCH LANGUAGE PEDAGOGY

FR 602 - NARRATIVE TRADITION (SUBTITLE REQUIRED)

FR 606 - LITERATURE OF THE MIDDLE AGES (SUBTITLE REQUIRED)

FR 607 - STUDIES IN RENAISSANCE LITERATURE (SUBTITLE REQUIRED)

FR 609 - SEVENTEENTH-CENTURY STUDIES (SUBTITLE REQUIRED)

FR 612 - STRUCTURE AND STYLISTICS OF FRENCH

FR 617 - EIGHTEENTH-CENTURY STUDIES (SUBTITLE REQUIRED)

FR 619 - NINETEENTH-CENTURY STUDIES (SUBTITLE REQUIRED)

FR 621 - TWENTIETH-CENTURY STUDIES (SUBTITLE REQUIRED)

**FR 630 - FRENCH LANGUAGE, LITERATURE AND CULTURE OUTSIDE FRANCE
(SUBTITLE REQUIRED)**

FR 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

FR 780 - SPECIAL STUDIES IN FRENCH

FSC 434G - FOOD CHEMISTRY

FSC 530 - FOOD MICROBIOLOGY

FSC 535 - FOOD ANALYSIS

FSC 536 - ADVANCED FOOD TECHNOLOGY

FSC 538 - FOOD FERMENTATION

FSC 540 - FOOD SANITATION

FSC 603 - INTEGRATED NUTRITIONAL SCIENCES III

FSC 630 - ADVANCED MEAT SCIENCE

FSC 632 - FOODBORNE DISEASE AGENTS

FSC 636 - FOOD PACKAGING

FSC 638 - FOOD PROTEINS

FSC 640 - FOOD LIPIDS

FSC 642 - FOOD PIGMENTS

FSC 780 - SPECIAL PROBLEMS IN ANIMAL DERIVED FOODS

FSC 790 - RESEARCH IN ANIMAL DERIVED FOODS

FY1 523 - FAMILY PRAC @ NJ MED SCH

FY1 542 - FAMILY PRAC @ INDIAN HLTH, NM

FY1 543 - FAMILY PRAC @ MESCALER HOSP NM

FY1 571 - FAMILY PRAC @ ALBERT EINSTIEN, NY

FY1 593 - FAMILY PRAC @ N CAR AHEC

FY1 599 - FAMILY PRAC @ BETHESDA FAM PRAC CTR CIN

FY1 602 - FAMILY PRAC @ ST E'BETH CTR, CIN

FY1 604 - FAMILY PRAC @ OHIO ST UNIV

FY1 611 - FAMILY PRAC @ WRIGHT PATTERSON AFB

FY1 641 - FAMILY PRAC @ OREGON HLTH & SCI UNIV

FY1 680 - FAMILY PRAC @ MED UNIV S CAR

FY1 686 - FAM PRAC @ GREENWOOD FP CTR, SC

FY1 687 - FAMILY PRAC @ ANDERSON MED CTR

FY1 717 - FAMILY PRAC @ DARNELL ARMY MED CTR

FY1 802 - FAMILY PRAC @ NAVAL MC BREMEMRTON, WA

FY1 821 - FAMILY PRAC @ MARSHALL UNIV

FY1 824 - FAMILY PRAC @ NEW RIVER FAM HE

FY1 891 - FAMILY PRAC @ EQUADOR

FY1 896 - FAMILY PRAC @ VENEZUELA

FY1 897 - FAMILY PRAC @ COSTA RICA

FY1 900 - FAMILY PRAC @ BAGKLA HOSP THAILAND

FY1 901 - FAMILY PRAC @ ST JOHNS ANTIGUA

FY1 908 - FAMILY PRAC @ COLUMBIA ASIA, VIETNAM

FY5 726 - FAMILY PRACTICE @ UNIV TX AT HOUSTON

GEN 501 - AGRICULTURAL AND ENVIRONMENTAL ETHICS

GEO 442G - POLITICAL GEOGRAPHY

GEO 451G - FLUVIAL FORMS AND PROCESSES

GEO 452G - WORLD GEOGRAPHY FOR TEACHERS

GEO 470G - AMERICA'S CULTURAL GEOGRAPHIES

GEO 485G - URBAN PLANNING AND SUSTAINABILITY

GEO 490G - AMERICAN LANDSCAPES

GEO 505 - PRACTICUM IN CARTOGRAPHY

GEO 508 - GEOGRAPHIC INTERPRETATION OF AERIAL PHOTOGRAPHY

GEO 509 - WORKSHOP IN GEOSPATIAL TECHNOLOGIES

GEO 530 - BIOGEOGRAPHY AND CONSERVATION

GEO 531 - LANDSCAPE ECOLOGY

GEO 547 - GEOGRAPHY OF INFORMATION AND COMMUNICATIONS

GEO 560 - INDEPENDENT WORK IN GEOGRAPHY

GEO 565 - TOPICS IN GEOGRAPHY

GEO 570 - LANDSCAPE ECOLOGY FOR NATURAL RESOURCES

GEO 585 - AGING AND ENVIRONMENT

GEO 600 - INTRODUCTION TO METHODS IN GEOGRAPHY

GEO 609 - GISCIENCE FUNDAMENTALS

GEO 610 - ANALYTICAL METHODS IN GEOGRAPHY

GEO 619 - REMOTE SENSING FUNDAMENTALS

GEO 655 - SPECIAL STUDY OF SYSTEMATIC GEOGRAPHY

GEO 702 - CONCEPTS IN GEOGRAPHY

GEO 705 - ADVANCED GEOGRAPHIC METHODS (SUBTITLE REQUIRED)

GEO 706 - ADVANCED FIELD STUDIES (SUBTITLE REQUIRED)

GEO 707 - DEVELOPMENT OF GEOGRAPHIC THOUGHT

**GEO 708 - GEOGRAPHIC INFORMATION SYSTEMS RESEARCH
METHODOLOGIES**

GEO 709 - ADVANCED GISCIENCE

GEO 711 - CULTURAL STUDIES AND GEOGRAPHY (SUBTITLE REQUIRED)

GEO 712 - DEVELOPMENT STUDIES AND GEOGRAPHY (SUBTITLE REQUIRED)

GEO 713 - ECONOMIC GEOGRAPHY: (SUBTITLE REQUIRED)

GEO 714 - POLITICAL GEOGRAPHY: (SUBTITLE REQUIRED)

GEO 715 - GEOGRAPHY AND SOCIAL THEORY (SUBTITLE REQUIRED)

GEO 717 - URBAN GEOGRAPHY (SUBTITLE REQUIRED)

GEO 718 - TOPICAL SEMINAR IN GEOGRAPHY OF ENVIRONMENT AND RESOURCES (SUBTITLE REQUIRED)

GEO 719 - GEOSPATIAL TECHNOLOGIES: SEMINAR

GEO 721 - TOPICAL SEMINAR IN PHYSICAL GEOGRAPHY (SUBTITLE REQUIRED)

GEO 722 - SOCIAL GEOGRAPHY: (SUBTITLE REQUIRED)

GEO 731 - EARTH SURFACE SYSTEMS

GEO 740 - RESEARCH INTERNSHIP (SUBTITLE REQUIRED)

GEO 741 - TEACHING PRACTICUM

GEO 742 - PREPARING FUTURE FACULTY IN GEOGRAPHY

GEO 743 - RESEARCH PROPOSALS AND GRANT WRITING

GEO 748 - MASTER'S THESIS RESEARCH

GEO 749 - DISSERTATION RESEARCH

GEO 767 - DISSERTATION RESIDENCY CREDIT

GEO 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

GEO 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

GEO 772 - SPECIAL RESEARCH PROBLEMS IN GEOGRAPHY

GER 507 - ADVANCED GERMAN COMPOSITION AND CONVERSATION

GER 515 - MAJOR GERMAN AUTHORS (SUBTITLE REQUIRED)

GER 516 - STUDIES IN GENRE

GER 520 - SPECIAL TOPICS SEMINAR

GER 550 - MULTIDISCIPLINARY GERMAN STUDIES SEMINAR (SUBTITLE REQUIRED)

GER 553 - THE TEACHING OF GERMAN

GER 612 - STUDIES IN LITERARY THEORY

GER 615 - STUDIES IN MAJOR AUTHORS

GER 616 - STUDIES IN GENRE

GER 625 - STUDIES IN THE 18TH CENTURY

GER 629 - STUDIES IN THE 19TH CENTURY

GER 630 - STUDIES IN THE 20TH CENTURY

GER 650 - MULTIDISCIPLINARY GERMAN STUDIES SEMINAR (SUBTITLE REQUIRED)

GER 653 - RESEARCH AND ISSUES IN TEACHING GERMAN

GER 721 - SPECIAL TOPICS IN GERMAN LITERARY AND CULTURAL HISTORY

GER 748 - MASTER'S THESIS RESEARCH

GER 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

GER 781 - INDEPENDENT STUDIES IN GERMAN

GRN 513 - GERIATRIC PHARMACY

GRN 585 - AGING AND ENVIRONMENT

GRN 600 - A STUDY OF THE OLDER PERSON

GRN 601 - CONTEMPORARY AGING AND SOCIETY

GRN 602 - CERTIFICATE PRACTICUM IN GERONTOLOGY

GRN 610 - PSYCHOLOGY OF AGING

GRN 612 - BIOLOGY OF AGING

GRN 615 - SEMINAR IN TEACHING MEDICAL SCIENCE (MED SCIENCE TEACHING I)

GRN 616 - TEACHING SEMINAR IN GERONTOLOGY

GRN 617 - TEACHING PRACTICUM IN GERONTOLOGY

GRN 618 - EPIDEMIOLOGY OF AGING

GRN 620 - HUMAN AGING AND ADJUSTMENT

GRN 643 - BIOMEDICAL ASPECTS OF AGING

GRN 644 - DEMOGRAPHY AND AGING

GRN 650 - RESEARCH DESIGN IN GERONTOLOGY

GRN 651 - QUALITATIVE GERONTOLOGY

GRN 653 - LABORATORY RESEARCH IN GERONTOLOGY

GRN 656 - INTEGRATIVE STUDIES IN GERONTOLOGY

GRN 660 - AGING AND FAMILY VALUES

GRN 662 - LONG-TERM CARE IN AN AGING SOCIETY

GRN 704 - MENTAL HEALTH AND AGING

GRN 705 - COGNITIVE AGING

GRN 706 - HEALTH PROMOTION AND AGING

GRN 710 - AGING OF THE NERVOUS SYSTEM

GRN 715 - HEALTH POLICY AND AGING

GRN 720 - GERONTOLOGY/GERIATRIC DENTISTRY

GRN 731 - ELDER MISTREATMENT

GRN 749 - DISSERTATION RESEARCH

GRN 767 - DISSERTATION RESIDENCY CREDIT

GRN 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

GRN 770 - SPECIAL TOPICS IN GERONTOLOGY

GRN 771 - AGING IN RURAL ENVIRONMENTS

GRN 772 - AGING AND THE LIFE COURSE

GRN 773 - ETHICS AND AGING

GRN 774 - PUBLIC POLICY AND AGING

GRN 775 - CLINICAL GERONTOLOGY

GRN 778 - CURRENT TOPICS IN BRAIN AGING

GRN 780 - APPLIED GERONTOLOGY PRACTICUM

GRN 781 - STUDENT DEVELOPMENT PRACTICUM

GRN 782 - WOMEN'S HEALTH AND AGING

GRN 783 - PUBLIC HEALTH AND AGING

GRN 785 - INDEPENDENT RESEARCH IN GERONTOLOGY

GRN 786 - INDEPENDENT READINGS IN GERONTOLOGY

GRN 790 - PROFESSIONAL DEVELOPMENT IN GERONTOLOGY

GS 598 - INNOVATIONS AT THE NEXUS OF FOOD, ENERGY AND WATER SYSTEMS

GS 599 - TRANSFERABLE SKILLS FOR SCIENTISTS & ENGINEERS

GS 600 - SPECIAL TOPICAL GRADUATE COURSE

GS 610 - COLLEGE TEACHING

GS 620 - TEACHING IN THE 21ST CENTURY

GS 630 - INSTRUCTIONAL TECHNOLOGY

GS 640 - GRANT WRITING

GS 650 - PREPARING FUTURE FACULTY

GS 660 - BIOACTIVE INTERFACES AND DEVICES SEMINAR

GS 690 - VISITING STUDENT RESIDENCY

GS 695 - SPECIAL PROBLEMS IN COLLEGE TEACHING AND LEARNING

GS 699 - PRACTICUM IN COLLEGE TEACHING

GS 758 - CAPSTONE RESIDENCY

GWS 506 - HISTORY OF SEXUALITY IN THE U.S.

GWS 595 - ISSUES IN GENDER AND WOMEN'S STUDIES (SUBTITLE REQUIRED)

GWS 599 - SENIOR SEMINAR (SUBTITLE REQUIRED)

GWS 600 - TOPICS IN GENDER AND WOMEN'S STUDIES (SUBTITLE REQUIRED)

GWS 602 - PERSPECTIVES ON GENDER IDENTITIES AND SEXUAL IDENTITIES

GWS 603 - GENDER, BODIES, AND HEALTH

GWS 610 - WOMEN AND 'MADNESS'

GWS 616 - COLONIALISM/POST-COLONIALISM AND GENDER

GWS 620 - COMPARATIVE CONSTRUCTIONS OF GENDER AND SEXUALITY

GWS 630 - SEMINAR IN FEMINIST RESEARCH METHODS

GWS 640 - HISTORY OF FEMINIST THOUGHT AND ACTION: (SUBTITLE REQUIRED)

GWS 650 - FEMINIST THEORY

GWS 675 - ADVANCED FEMINIST THEORY

GWS 690 - GRADUATE RESEARCH IN GENDER AND WOMEN'S STUDIES

GWS 700 - TOPICAL SEMINAR IN GENDER AND WOMEN'S STUDIES: (SUBTITLE REQUIRED)

GWS 710 - LATIN AMERICAN AND U.S. LATINA WOMEN'S LIVES

GWS 748 - MASTER'S THESIS RESEARCH

GWS 767 - DISSERTATION RESIDENCY CREDIT

GWS 775 - DOMESTIC VIOLENCE ACROSS CULTURES

HA 622 - MENTAL HEALTH ADMINISTRATION

HA 715 - HEALTH POLICY AND AGING

HDI 500 - UNIVERSAL DESIGN PRACTICUM II: ADVANCED TECHNIQUES

HDI 600 - INTERDISCIPLINARY APPROACHES TO THE NEEDS OF PERSONS WITH DEVELOPMENTAL DISABILITIES AND SPECIAL

HDI 601 - INTERDISCIPLINARY APPROACHES TO THE NEEDS OF

HDI 602 - INTERDISCIPLINARY SUPPORTS

HDI 603 - INTERDISCIPLINARY SUPPORTS PRACTICUM

HDI 604 - INTERDISCIPLINARY LEADERSHIP SEMINAR

HDI 605 - INTERDISCIPLINARY LEADERSHIP PRACTICUM

HES 596 - SPECIAL PROBLEMS IN HUMAN ENVIRONMENTAL SCIENCES

HES 600 - RESEARCH METHODOLOGY IN HUMAN ENVIRONMENTAL SCIENCES

HHS 400G - NUTRITION FOR PHYSICAL ACTIVITY, INJURY PREVENTION, AND REHABILITATION

HHS 402G - MUSCLE BIOLOGY

HHS 501 - PRACTICUM IN HUMAN HEALTH SCIENCES

HIS 500 - PRE-CLASSICAL AND CLASSICAL GREECE

HIS 501 - FOURTH CENTURY GREECE AND THE HELLENISTIC WORLD

HIS 502 - A HISTORY OF THE ROMAN REPUBLIC

HIS 503 - A HISTORY OF THE ROMAN EMPIRE

HIS 504 - GREEK AND ROMAN MEDICINE

HIS 506 - HISTORY OF SEXUALITY IN THE U.S.

HIS 509 - ROMAN LAW

HIS 510 - MEDIEVAL CIVILIZATION I

HIS 511 - BARBARIANS

HIS 512 - CAROLINGIAN EMPIRE

HIS 513 - MEDIEVAL INSTITUTIONS SINCE THE MID TENTH CENTURY

HIS 514 - SPAIN: FROM RECONQUEST TO EMPIRE, 1200 - 1700

HIS 515 - IMPERIAL SPAIN, 1450-1815

HIS 519 - THE ERA OF THE RENAISSANCE

HIS 520 - THE ERA OF THE REFORMATION

HIS 521 - EUROPEAN SOCIAL HISTORY, 1400-1800

HIS 525 - MODERN EUROPE: 1890-1939

HIS 526 - EUROPE SINCE 1939

HIS 529 - WOMEN IN MODERN EUROPE

HIS 534 - RUSSIA IN THE NINETEENTH CENTURY

HIS 535 - RUSSIA IN THE TWENTIETH CENTURY

HIS 536 - INTELLECTUAL AND CULTURAL HISTORY OF RUSSIA TO 1800

HIS 537 - INTELLECTUAL AND CULTURAL HISTORY OF RUSSIA FROM 1800 TO PRESENT

HIS 540 - HISTORY OF MODERN FRANCE TO 1815

HIS 541 - HISTORY OF MODERN FRANCE SINCE 1815

HIS 542 - GERMAN HISTORY 1789-1918

HIS 543 - GERMAN HISTORY SINCE 1918

HIS 546 - THE BYZANTINE EMPIRE

HIS 549 - HISTORY OF THE MIDDLE EAST: 1952 TO PRESENT

HIS 550 - STUDIES IN MID-EAST HISTORY AND POLITICS: (SUBTITLE REQUIRED)

HIS 552 - TUDOR-STUART BRITAIN, 1485-1714

HIS 553 - EIGHTEENTH CENTURY BRITAIN

HIS 554 - BRITISH HISTORY 1815-1901

HIS 555 - BRITISH HISTORY SINCE 1901

HIS 556 - THE BRITISH EMPIRE, 1322-1879

HIS 557 - THE BRITISH EMPIRE AND COMMONWEALTH, 1880-2000

HIS 561 - CULTURE, IDEAS, AND SOCIETY IN LATIN AMERICA

HIS 562 - MODERN MEXICO

HIS 563 - THE HISTORY OF WOMEN IN LATIN AMERICA

HIS 564 - HISTORY OF BRAZIL

HIS 572 - AMERICAN LEGAL HISTORY

HIS 573 - AMERICAN CONSTITUTIONAL HISTORY

HIS 574 - THE DIPLOMACY AND FOREIGN POLICY OF THE UNITED STATES TO 1919.

HIS 575 - THE DIPLOMACY AND FOREIGN POLICY OF THE UNITED STATES SINCE 1919

HIS 576 - FRONTIER AMERICA, 1400-1869

HIS 577 - FRONTIER AMERICA, 1869-PRESENT

HIS 578 - HISTORY OF THE OLD SOUTH

HIS 579 - HISTORY OF THE NEW SOUTH

HIS 580 - HISTORY OF APPALACHIA

HIS 584 - HEALTH AND DISEASE IN THE U.S.

HIS 587 - THE CIVIL RIGHTS MOVEMENT IN THE U.S. SINCE 1930

HIS 590 - JAPANESE HISTORY TO 1800

HIS 591 - JAPANESE HISTORY SINCE 1800

HIS 593 - EAST ASIAN HISTORY SINCE WORLD WAR II

HIS 594 - USES OF THE PAST IN MODERN CHINA

HIS 595 - STUDIES IN HISTORY: SUBTITLE REQUIRED

HIS 598 - CHINA IN REVOLUTION, 1895-1976

HIS 600 - THE INTELLECTUAL HISTORY OF AFRICAN AMERICANS

HIS 606 - HISTORICAL CRITICISM

HIS 613 - READINGS IN EARLY MEDIEVAL HISTORY

HIS 614 - READINGS IN HIGH AND LATE MEDIEVAL HISTORY

HIS 615 - MANUSCRIPT CULTURES

HIS 616 - PALEOGRAPHY

HIS 621 - READINGS IN EARLY MODERN EUROPE, 1450-1648

HIS 622 - READINGS IN EARLY MODERN EUROPE, 1648-1815

HIS 623 - READINGS IN 19TH CENTURY EUROPEAN HISTORY

HIS 624 - READINGS IN EUROPEAN HISTORY OF THE TWENTIETH CENTURY

HIS 625 - BRITAIN, 1688-1815

HIS 626 - BRITAIN, 1792-1914

HIS 627 - THE BRITISH EMPIRE, 1763-1914

HIS 628 - COLLOQUIUM ON MODERN EUROPEAN HISTORY

HIS 637 - READINGS IN COLONIAL LATIN AMERICAN HISTORY

HIS 638 - READINGS IN LATIN AMERICAN HISTORY

HIS 640 - READINGS IN AMERICAN HISTORY TO 1877

HIS 641 - READINGS IN AMERICAN HISTORY SINCE 1877

HIS 650 - READINGS IN SPECIAL TOPICS IN HISTORY: SUBTITLE REQUIRED

HIS 651 - READINGS IN U.S. FOREIGN RELATIONS SINCE 1900

HIS 652 - READINGS IN AMERICAN HISTORY OF SCIENCE AND TECHNOLOGY

HIS 653 - READINGS IN U.S. WOMEN'S HISTORY

HIS 654 - READINGS IN MODERN AFRICAN-AMERICAN HISTORY

HIS 655 - READINGS IN THE NINETEENTH CENTURY SOUTH

HIS 656 - READINGS IN THE TWENTIETH CENTURY SOUTH

HIS 657 - RACE RELATIONS IN THE UNITED STATES

HIS 658 - READINGS IN AMERICAN ENVIRONMENTAL HISTORY

HIS 663 - THE ATLANTIC WORLD

**HIS 675 - READINGS IN MODERN AMERICAN POLITICS AND AMERICAN
POLITICAL DEVELOPMENT**

HIS 695 - INDEPENDENT WORK

HIS 700 - SPECIAL PROBLEMS IN HISTORY

HIS 701 - RESEARCH SEMINAR IN AMERICAN HISTORY

**HIS 705 - COLLOQUIUM IN PRE-MODERN EUROPEAN HISTORY: SUBTITLE
REQUIRED**

HIS 706 - SEMINAR IN MEDIEVAL HISTORY

HIS 710 - SEMINAR IN AMERICAN HISTORY, 1607-1815

HIS 711 - SEMINAR IN AMERICAN HISTORY, 1815-1865

HIS 722 - SEMINAR IN MODERN EUROPEAN HISTORY, 1870--TO THE PRESENT

HIS 730 - SEMINAR IN MODERN BRITISH HISTORY

HIS 748 - MASTER'S THESIS RESEARCH

HIS 749 - DISSERTATION RESEARCH

HIS 750 - INTRODUCTION TO THE HISTORICAL PROFESSION

HIS 767 - DISSERTATION RESIDENCY CREDIT

HIS 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

HIS 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE.

HMT 560 - ADVANCED SEMINAR IN LODGING AND TOURISM

HMT 570 - EVENT PLANNING AND COORDINATION

HMT 580 - TRENDS ANALYSIS FOR THE HOSPITALITY INDUSTRY

HMT 588 - STRATEGIC MANAGEMENT IN THE HOSPITALITY & FOOD SERVICE INDUSTRY

HMT 646 - ADVANCED INFORMATION TECHNOLOGY IN THE HOSPITALITY INDUSTRY

HMT 694 - STRATEGIC PLANNING IN HOSPITALITY, LODGING AND TOURISM

HMT 759 - SPECIAL TOPICS IN HOSPITALITY MANAGEMENT AND TOURISM

HMT 781 - ADVANCED TRENDS ANALYSIS IN HOSPITALITY AND TOURISM

HMT 785 - INDEPENDENT STUDY IN HOSPITALITY MANAGEMENT AND TOURISM

HP 501 - SELECTED TOPICS IN HISTORIC PRESERVATION (SUBTITLE REQUIRED)

HP 510 - CULTURAL LANDSCAPES AND HISTORIC PRESERVATION

HP 511 - SUSTAINABLE DEVELOPMENT AND HERITAGE

HP 601 - INTRODUCTION TO HISTORIC PRESERVATION

HP 602 - HISTORIC PRESERVATION LAW

HP 609 - URBAN REVITALIZATION IN THE UNITED STATES

HP 610 - AMERICAN ARCHITECTURE I

HP 611 - AMERICAN ARCHITECTURE II

HP 612 - DOCUMENTATION OF HISTORIC BUILDINGS AND SITES

HP 613 - HISTORICAL STRUCTURAL SYSTEMS AND BUILDING MATERIALS

HP 614 - DOCUMENTATION OF HISTORIC BUILDINGS AND SITES II

HP 615 - AMERICAN SETTLEMENT PATTERNS: HISTORY OF LAND DEVELOPMENT

HP 616 - HISTORIC PRESERVATION AND DESIGN

HP 617 - HISTORIC PRESERVATION PLANNING

HP 670 - RETHINKING PRESERVATION: ETHICS, PUBLIC POLICY, AND HERITAGE RESOURCES

HP 671 - INTRODUCTION TO CULTURAL RESOURCE MANAGEMENT

HP 672 - AMERICAN ROADSIDE ARCHITECTURE

HP 675 - ARCHITECTURAL HISTORY FOR PRESERVATION PRACTICE

HP 676 - FIELD METHODS IN HERITAGE CONSERVATION

HP 677 - KENTUCKY ARCHITECTURE AS AMERICAN ARCHITECTURE

HP 699 - INTERNSHIP

HP 718 - ADAPTIVE REUSE

HP 720 - CASE STUDIES IN PRESERVATION

HP 721 - INTERPRETATION OF HISTORIC BUILDINGS AND SITES

HP 724 - ADVANCED HISTORICAL STRUCTURAL SYSTEMS AND BUILDING MATERIALS CONSERVATION

HP 748 - MASTER'S PROJECT RESEARCH

HP 750 - ARCHITECTURE DESIGN STUDIO

HP 772 - SEMINAR IN HISTORIC PRESERVATION: SUBTITLE REQUIRED

HP 785 - INDEPENDENT STUDY IN HISTORIC PRESERVATION

HP 798 - RESEARCH DESIGN

HP 799 - MASTER'S PROJECT

HRT 520 - FRUIT AND VEGETABLE PRODUCTION

HSE 502 - PERFORMANCE EVALUATION IN THE CLINIC AND LABORATORY

HSE 510 - OLDER WOMEN AND THEIR HEALTH

HSE 570 - MANAGING HEALTH ISSUES IN LONG-TERM CARE: TEAM APPROACH

HSE 595 - DIRECTED STUDIES

HSE 660 - ADVANCED CLINICAL PRACTICUM IN ALLIED HEALTH

HSE 831 - EFFECTS OF DISEASE AND INJURY ON THE PATIENT AND FAMILY

HSE 842 - CLINICAL PRACTICUM IN ALLIED HEALTH

HSE 880 - SPECIAL TOPICS (SUBTITLE REQUIRED)

HSM 601 - OVERVIEW OF THE HEALTH CARE DELIVERY SYSTEM

HSM 622 - MENTAL HEALTH ADMINISTRATION

HSR 700 - HEALTH SERVICES RESEARCH AND THEORY

HSR 701 - HEALTH SERVICES RESEARCH JOURNAL CLUB

HSR 705 - HEALTH SERVICES RESEARCH METHODS

HSR 710 - HEALTH OUTCOMES RESEARCH: DESIGN, MEASUREMENT, AND ANALYSIS

HSR 715 - COMPARATIVE EFFECTIVENESS RESEARCH

HSR 720 - DIRECTED RESEARCH

HSR 725 - DEVELOPING PROPOSALS FOR HEALTH SERVICES RESEARCH

IBS 601 - BIOMOLECULES AND METABOLISM

IBS 602 - MOLECULAR BIOLOGY AND GENETICS

IBS 603 - CELL BIOLOGY AND SIGNALING

IBS 606 - PHYSIOLOGICAL COMMUNICATION

IBS 607 - SEMINAR IN INTEGRATED BIOMEDICAL SCIENCES

IBS 608 - SPECIAL TOPICS IN INTEGRATED BIOMEDICAL SCIENCES

IBS 609 - RESEARCH IN INTEGRATED BIOMEDICAL SCIENCES

IBS 610 - CRITICAL SCIENTIFIC READINGS

IBS 611 - PRACTICAL STATISTICS

ICT 520 - DESIGNING FOR DATA VISUALIZATION

ICT 550 - SECURITY INFORMATICS

ICT 552 - CYBERCRIME AND DIGITAL LAW ENFORCEMENT

ICT 596 - INTERNSHIP IN ICT

ICT 600 - INFORMATION COMMUNICATION TECHNOLOGY IN SOCIETY

ICT 601 - INFORMATION SEEKING

ICT 605 - INTRODUCTION TO HUMAN COMPUTER INTERACTION

ICT 610 - ICT RESEARCH METHODS

ICT 626 - ELECTRONIC INFORMATION RESOURCES IN THE HEALTH SCIENCES

ICT 627 - CONSUMER HEALTH INFORMATION RESOURCES

ICT 630 - INFORMATION RETRIEVAL

ICT 636 - INTRODUCTION TO COMPUTER INFORMATION SYSTEMS

ICT 638 - ADVANCED WEB DESIGN

ICT 640 - HEALTH INFORMATION RESOURCE SERVICES

ICT 650 - INTRODUCTION TO LEADERSHIP IN INFORMATION PROFESSIONS

ICT 651 - TECHNOLOGY SECURITY

ICT 658 - KNOWLEDGE MANAGEMENT

ICT 661 - INTRODUCTION TO DATA SCIENCE

ICT 662 - DATA ANALYSIS AND VISUALIZATION

ICT 690 - SPECIAL TOPICS IN LIBRARY AND INFORMATION SCIENCE

ICT 695 - INDEPENDENT STUDY IN INFORMATION COMMUNICATION TECHNOLOGY

ICT 696 - ICT PRACTICUM

ID 559 - SPECIAL TOPIC IN INTERIORS (SUBTITLE REQUIRED)

ID 563 - MATERIAL CULTURE: MEDIA CULTURE

ID 595 - INDEPENDENT STUDY IN INTERIORS

ID 641 - REGIONAL VARIATIONS IN COLONIAL AMERICAN DESIGN

ID 650 - SURVEY OF CURRENT LITERATURE AND METHODOLOGIES

ID 655 - CREATIVE AND THEORETICAL DESIGN PROCESSES

ID 659 - INTERIORS GRADUATE STUDIO

ID 669 - ADVANCED COLOR THEORY AND APPLICATION

ID 700 - RESEARCH APPLICATIONS IN INTERIORS

ID 748 - MASTER'S THESIS RESEARCH

ID 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

ID 772 - CURRENT ISSUES IN DESIGN

ID 785 - INDEPENDENT STUDY IN INTERIORS

IEC 507 - ASSESSMENT OF YOUNG CHILDREN

IEC 508 - ADVANCED CURRICULUM PLANNING IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION

IEC 509 - INTERVENTION PLANNING FOR CHILDREN WITH SPECIAL NEEDS

IEC 510 - PRACTICUM IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION

IEC 512 - LANGUAGE AND LITERACY FOR YOUNG CHILDREN

IEC 522 - CHILDREN AND FAMILIES

IEC 523 - PRACTICUM IN EARLY CHILDHOOD ADMINISTRATION AND SUPERVISION

IEC 546 - TRANSDISCIPLINARY SERVICES FOR YOUNG CHILDREN

IEC 552 - ADMINISTRATION AND SUPERVISION IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION PROGRAMS

IEC 557 - INFANT DEVELOPMENT

IEC 558 - SPECIAL TOPICS IN INTERDISCIPLINARY EARLY CHILDHOOD

IEC 620 - ASSESSMENT IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION

IEC 621 - ISSUES IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION

IEC 623 - ADVANCED PRACTICUM: INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION

IEC 659 - ADVANCED CHILD DEVELOPMENT

IEC 701 - SEMINAR FOR EDSCE LEADERSHIP PERSONNEL

IEC 709 - SEMINAR IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION

IEC 710 - ADVANCED INSTRUCTIONAL METHODS IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION

IEC 712 - SEMINAR IN EDSCE PROFESSIONAL SERVICES

IEC 720 - SEMINAR IN EDSCE TEACHER PREPARATION

IEC 721 - PRACTICUM IN EDSCE PERSONNEL PREPARATION

IEC 767 - DISSERTATION RESIDENCY CREDIT

IEC 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

INF 401G - INFORMATICS FUNDAMENTALS

INF 520 - BIOINFORMATICS

**INT 495G - CAPSTONE SEMINAR FOR INTERNATIONAL STUDIES MAJORS
(SUBTITLE REQUIRED)**

**IPS 610 - TRANS-DISCIPLINARY COMMUNICATION IN INTEGRATED PLANT AND
SOIL SCIENCES**

**IPS 625 - TRANS-DISCIPLINARY RESEARCH IN INTEGRATED PLANT AND SOIL
SCIENCES**

**IPS 790 - SUPERVISED RESEARCH AND STUDY IN INTEGRATED PLANT AND
SOIL SCIENCES**

**ISC 541 - CRITICAL TOPICS IN INTEGRATED STRATEGIC COMMUNICATION
(SUBTITLE REQUIRED)**

ISC 543 - REGULATION OF STRATEGIC COMMUNICATION

ISC 551 - SALES PROMOTION AND SPONSORSHIP

ISC 561 - DIGITAL STRATEGIES IN ISC

**ISC 571 - INTEGRATED STRATEGIC COMMUNICATION IN CORPORATE SOCIAL
RESPONSIBILITY**

ISC 583 - SPECIAL TOPICS IN ISC EDUCATION ABROAD (SUBTITLE REQUIRED)

ITA 410G - SPECIAL TOPICS IN ITALIAN LANGUAGE: (SUBTITLE REQUIRED)

ITA 443G - SURVEY OF ITALIAN LITERATURE I

ITA 444G - SURVEY OF ITALIAN LITERATURE II

JOU 531 - MEDIA LAW AND ETHICS

JOU 532 - ETHICS OF JOURNALISM AND MASS COMMUNICATION

JOU 535 - HISTORY OF JOURNALISM

JOU 538 - LAW, MEDIA AND SPORTS

JOU 541 - THE FIRST AMENDMENT, INTERNET, & SOCIETY

JPN 400G - TOPICS IN JAPAN STUDIES (SUBTITLED REQUIRED)

JPN 421G - CONTEMPORARY LITERARY AND VISUAL ARTS OF JAPAN

JPN 430G - SELF AND OTHER: THE POLITICS OF CULTURE IN JAPAN-U.S. RELATIONSHIP

JPN 461G - JAPANESE COLONIALISM AND ITS LEGACIES

JPN 520 - JAPANESE LINGUISTICS AND SOCIETY

KHP 420G - PHYSIOLOGY OF EXERCISE

KHP 509 - WORKSHOP IN HEALTH AND SAFETY

KHP 510 - COMMUNITY ORGANIZING IN HEALTH PROMOTION

KHP 520 - PROGRAM EVALUATION

KHP 535 - SCHOOL HEALTH DILEMMAS OF SPECIAL POPULATIONS

KHP 546 - PHYSICAL EDUCATION WORKSHOP

KHP 547 - PSYCHOLOGY OF SPORT AND PHYSICAL ACTIVITY

KHP 550 - PRINCIPLES OF RESISTANCE TRAINING

KHP 560 - MOTOR DEVELOPMENT IN INFANTS AND YOUNG CHILDREN

KHP 570 - DESIGN AND MANAGEMENT OF FACILITIES FOR SPORT

KHP 576 - LGBTQ* HEALTH PROMOTION

KHP 577 - PRACTICUM IN KINESIOLOGY AND HEALTH PROMOTION

KHP 579 - ADAPTED PHYSICAL EDUCATION

KHP 580 - GROUP DYNAMICS IN SPORT AND PHYSICAL ACTIVITY

KHP 585 - FOUNDATIONS OF SPORT MANAGEMENT

KHP 590 - CRITICAL ISSUES IN HEALTH PROMOTION

KHP 600 - EXERCISE STRESS TESTING AND PRESCRIPTION

KHP 601 - TEACHING EFFECTIVENESS AND LEADERSHIP IN KINESIOLOGY AND HEALTH EDUCATION

KHP 602 - PROMOTING PHYSICAL ACTIVITY FOR YOUTH

KHP 605 - PSYCHOLOGICAL ASPECTS OF SPORT INJURY AND REHABILITATION

KHP 609 - SEMINAR IN HEALTH AND SAFETY EDUCATION

KHP 615 - BIOMECHANICS OF FUNDAMENTAL MOVEMENTS

KHP 616 - SPORTS BIOMECHANICS

KHP 617 - GAIT ANALYSIS

KHP 620 - ADVANCED EXERCISE PHYSIOLOGY

KHP 621 - EXERCISE AND CORONARY HEART DISEASE

KHP 640 - LAB METHODS IN EXERCISE SCIENCE

KHP 644 - RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION

KHP 650 - MOTOR CONTROL II: REFLEXES, COGNITION AND MOVEMENT

KHP 673 - HEALTH PROMOTION AND BEHAVIOR CHANGE

KHP 674 - FOUNDATIONS OF HEALTH PROMOTION

KHP 675 - HEALTH ASSESSMENTS

KHP 676 - CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT

KHP 677 - PLANNING HEALTH PROMOTION PROGRAMS

KHP 678 - SEXUAL HEALTH PROMOTION SEMINAR

KHP 679 - HEALTH PROMOTION & HEALTH COACHING INTERNSHIP

KHP 680 - SPORT MARKETING

KHP 681 - FINANCIAL ASPECTS OF SPORT

KHP 682 - CONTEMPORARY SPORT LEADERS

KHP 683 - LEADERSHIP, THEORY, AND PRACTICE IN SPORT AND FITNESS ORGANIZATIONS

KHP 684 - DIVERSITY IN SPORT & FITNESS ORGANIZATIONS

KHP 685 - SUPERVISION OF SPORT AND FITNESS PERSONNEL

KHP 686 - SPORT MANAGER'S LABORATORY

KHP 687 - PRACTICUM IN SPORT MANAGEMENT

KHP 688 - EVENT MANAGEMENT IN SPORT

KHP 689 - INTERNSHIP IN SPORT AND EXERCISE PSYCHOLOGY

KHP 690 - APPLIED FOUNDATIONS OF HIGH PERFORMANCE

KHP 691 - ANALYTICS IN HIGH PERFORMANCE

KHP 695 - INDEPENDENT STUDY IN KINESIOLOGY AND HEALTH PROMOTION

KHP 715 - THREE-DIMENSIONAL BIOMECHANICAL ANALYSIS OF HUMAN MOVEMENT

KHP 720 - SPORTS MEDICINE

KHP 748 - MASTER'S THESIS RESEARCH

KHP 749 - DISSERTATION RESEARCH

KHP 767 - DISSERTATION RESIDENCY CREDIT

KHP 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

KHP 769 - RESIDENCE CREDIT FOR THE DOCTORAL DEGREE

KHP 770 - SEMINAR IN PHYSICAL EDUCATION

KHP 780 - SEMINAR IN RECREATION

KHP 781 - PROSEMINAR IN HPR (SUBTITLE REQUIRED)

KHP 782 - INDEPENDENT RESEARCH IN KINESIOLOGY AND HEALTH PROMOTION

KHP 785 - GRADUATE SEMINAR IN EXERCISE SCIENCE

LA 531 - WATER IN URBANIZING LANDSCAPES

LA 556 - CONTEMPORARY GEOSPATIAL APPLICATIONS FOR LAND ANALYSIS

LA 597 - SPECIAL TOPICS IN LANDSCAPE ARCHITECTURE: (SUBTITLE REQUIRED)

LAS 601 - INTERDISCIPLINARY SEMINAR IN LATIN AMERI

LAW 801 - CONTRACTS/SALES I

LAW 802 - CONTRACTS/SALES II

LAW 804 - LEGAL RESEARCH AND WRITING SKILLS

LAW 805 - TORTS

LAW 807 - PROPERTY

LAW 808 - CRIME AND PUNISHMENT: SENTENCING POLICY AND PROCEDURE

LAW 809 - FEDERAL CRIMINAL LAW

LAW 810 - CRIMINAL LAW

LAW 811 - CRIMINAL PROCEDURE I

LAW 812 - RACE, RACISM AND THE CRIMINAL LAW

LAW 813 - CAPITAL PUNISHMENT

LAW 814 - CRIMINAL TRIAL PROCESS

LAW 815 - CIVIL PROCEDURE I

LAW 817 - CIVIL PROCEDURE II

LAW 818 - REMEDIES

LAW 819 - THE FEDERAL COURTS AND THE FEDERAL SYSTEM

LAW 820 - CONSTITUTIONAL LAW I

LAW 821 - LITIGATION SKILLS

LAW 822 - CONSTITUTIONAL LAW II

LAW 823 - CONFLICT OF LAWS

LAW 824 - ALTERNATE DISPUTE RESOLUTION

LAW 825 - THE NEGOTIATING PROCESS

LAW 826 - LEGAL DRAFTING

LAW 827 - FEDERAL APPELLATE ADVOCACY AND PROCEDURE

LAW 828 - STATUTORY CIVIL RIGHTS

LAW 829 - STATE CONSTITUTIONAL LAW

LAW 830 - HEALTHCARE ORGANIZATIONS AND FINANCE

LAW 831 - BIOETHICAL ISSUES IN THE LAW

LAW 832 - MEDICAL LIABILITY

LAW 833 - CIVIL PRETRIAL PRACTICE

LAW 834 - DEPOSITIONS IN CIVIL CASES

LAW 835 - PROFESSIONAL RESPONSIBILITY

LAW 836 - LAW AND ECONOMICS

LAW 838 - LAW AND RELIGION

LAW 839 - WOMEN AND THE LAW

LAW 840 - SUPREME COURT DECISION MAKING

LAW 845 - JURISPRUDENCE

LAW 846 - LAW AND SOCIAL SCIENCE

LAW 850 - LEGAL ACCOUNTING

LAW 851 - BUSINESS ASSOCIATIONS

LAW 855 - CORPORATION FINANCE LAW

LAW 856 - BUSINESS PLANNING

LAW 858 - NONPROFIT ORGANIZATIONS

LAW 860 - TAXATION I

LAW 861 - PARTNERSHIP TAX

LAW 863 - CORPORATE TAX

LAW 864 - REAL ESTATE TRANSACTIONS

LAW 865 - ESTATE AND GIFT TAX

LAW 866 - ADVANCED ESTATE PLANNING

LAW 870 - NATURAL RESOURCES LAW

LAW 871 - ENERGY AND MINERAL LAW AND POLICY

LAW 872 - LAND USE PLANNING

LAW 874 - BANKING LAW

LAW 875 - SECURITIES REGULATION

LAW 876 - TRUSTS AND ESTATES

LAW 881 - PAYMENT SYSTEMS

LAW 882 - SECURED TRANSACTIONS

LAW 885 - COMMERCIAL DEBTOR-CREDITOR RELATIONS

LAW 887 - INSURANCE

LAW 890 - EVIDENCE

LAW 891 - KENTUCKY LEGAL RESEARCH

LAW 892 - FOREIGN & INTERNATIONAL LEGAL RESEARCH

LAW 893 - FEDERAL ADMINISTRATIVE & TAX RESEARCH

LAW 894 - ANIMAL RIGHTS

LAW 895 - EQUINE LAW

LAW 896 - RESEARCH PROBLEMS

LAW 897 - BUSINESS LEGAL RESEARCH

LAW 898 - ENVIRONMENTAL LAW

LAW 900 - LAW SPECIAL COURSE

LAW 901 - SPECIAL TOPICS IN LAW

LAW 902 - SPECIAL TOPICS IN LAW

LAW 903 - SPECIAL TOPICS IN LAW

LAW 904 - SPECIAL TOPICS IN LAW

LAW 906 - SPECIAL TOPICS IN LAW

LAW 907 - SPECIAL TOPICS IN LAW

LAW 908 - SPECIAL TOPICS IN LAW

LAW 909 - SPECIAL TOPICS IN LAW

LAW 910 - LABOR LAW

LAW 911 - EDUCATION LAW

LAW 912 - EMPLOYMENT LAW

LAW 913 - ADVANCED LEGAL RESEARCH

LAW 914 - PRODUCTS LIABILITY

LAW 915 - FAMILY LAW

LAW 916 - CHILDREN AND THE LAW

LAW 917 - ECONOMIC AND DIGNITARY TORTS

LAW 919 - IMMIGRATION LAW

LAW 920 - ADMINISTRATIVE LAW

LAW 921 - ELECTION LAW

LAW 923 - INTERNATIONAL ENVIRONMENTAL LAW

LAW 924 - INTERNATIONAL TRADE LAW

LAW 925 - INTERNATIONAL LAW

LAW 926 - INTERNATIONAL BUSINESS TRANSACTIONS COURSE

LAW 927 - LEGISLATION

LAW 928 - EMPLOYEE BENEFITS LAW

LAW 929 - COPYRIGHT LAW

LAW 930 - ANTITRUST LAW

LAW 931 - STATE AND LOCAL TAXATION

LAW 933 - INTERNET LAW

LAW 934 - PATENT LAW

LAW 935 - INTELLECTUAL PROPERTY

LAW 936 - INTELLECTUAL PROPERTY TRANSACTIONS

LAW 937 - INTERNATIONAL TAX

LAW 938 - LAW AND BUSINESS OF INTELLECTUAL PROPERTY MANAGEMENT

LAW 940 - SEMINAR

LAW 941 - SEMINAR

LAW 942 - SEMINAR

LAW 943 - SEMINAR

LAW 944 - SEMINAR

LAW 945 - SEMINAR

LAW 946 - SEMINAR

LAW 947 - SEMINAR

LAW 948 - SEMINAR

LAW 949 - SEMINAR

LAW 950 - SEMINAR

LAW 951 - SEMINAR

LAW 952 - SEMINAR

LAW 953 - SEMINAR

LAW 954 - SEMINAR

LAW 955 - SEMINAR

LAW 956 - SEMINAR

LAW 957 - SEMINAR

LAW 958 - SEMINAR

LAW 959 - SEMINAR

LAW 960 - TRIAL ADVOCACY BOARD

LAW 961 - MOOT COURT

LAW 962 - KENTUCKY LAW JOURNAL

LAW 963 - JOURNAL OF NATURAL RESOURCES AND ENVIRONMENTAL LAW

LAW 964 - JUDICIAL EXTERNSHIP

LAW 965 - PROSECUTORIAL EXTERNSHIP

LAW 966 - MOOT COURT NATIONAL TEAM

LAW 968 - KENTUCKY REFUGEE MINISTRIES EXTERNSHIP

LAW 969 - IMMIGRATION LAW EXTERNSHIP

LAW 970 - UK OFFICE OF LEGAL COUNSEL EXTERNSHIP

**LAW 971 - DEPARTMENT OF PUBLIC ADVOCACY INNOCENCE PROJECT
EXTERNSHIP**

LAW 972 - LEGAL CLINIC

LAW 973 - CHILDREN'S LAW CENTER EXTERNSHIP

LAW 974 - PUBLIC DEFENDER EXTERNSHIP

LAW 975 - UK HEALTHCARE EXTERNSHIP

LAW 976 - KENTUCKY ENERGY AND ENVIRONMENT CABINET EXTERNSHIP

LAW 977 - CHILD ADVOCACY TODAY EXTERNSHIP

LAW 978 - ADVANCED LEGAL CLINIC

LAW 979 - LEXINGTON CITY ATTORNEY EXTERNSHIP

LAW 980 - FAYETTE COUNTY ATTORNEY EXTERNSHIP

LIN 500 - PHONETICS

LIN 505 - LINGUISTIC MORPHOLOGY

LIN 506 - SOCIOLINGUISTICS

LIN 507 - LINGUISTIC ANTHROPOLOGY

LIN 508 - DISCOURSE ANALYSIS

LIN 509 - FORMAL SEMANTICS

LIN 510 - CORPUS LINGUISTICS

LIN 511 - COMPUTATIONAL LINGUISTICS

LIN 512 - SYNTACTIC ANALYSIS

LIN 513 - TEACHING ENGLISH AS A SECOND LANGUAGE

LIN 514 - TESL MATERIALS AND METHODS

LIN 515 - PHONOLOGICAL ANALYSIS

LIN 516 - GRAMMATICAL TYPOLOGY

LIN 517 - SPECIAL TOPICS IN LINGUISTICS (SUBTITLE REQUIRED)

LIN 518 - ADV HIS OF ENGLISH LANGUAGE

LIN 519 - HISTORICAL LINGUISTICS

LIN 520 - SANSKRIT I

LIN 521 - SANSKRIT II

LIN 527 - LANGUAGE INVESTIGATIONS: (SUBTITLE REQUIRED)

LIN 529 - LANGUAGE CONTACT

LIN 530 - PRAGMATICS

LIN 540 - LABORATORY IN LINGUISTICS: (SUBTITLE REQUIRED)

LIN 550 - LINGUISTIC FIELD METHODS

LIN 600 - ADVANCED PHONETICS

LIN 601 - RESEARCH METHODS IN LINGUISTICS

LIN 605 - ADVANCED MORPHOLOGY

LIN 606 - ADVANCED SOCIOLINGUISTICS

LIN 609 - ADVANCED SEMANTICS

LIN 610 - ADVANCED COMPUTATIONAL/CORPUS LINGUISTICS

LIN 611 - QUANTITATIVE METHODS IN LINGUISTICS

LIN 612 - STRUCTURE AND STYLISTICS OF FRENCH

LIN 615 - ADVANCED PHONOLOGY

LIN 617 - ADVANCED TOPICS IN LINGUISTICS

LIN 619 - HISTORICAL SOCIOLINGUISTICS

LIN 622 - ADVANCED SYNTAX

LIN 629 - ADVANCED HISTORICAL LINGUISTICS

LIN 640 - ADVANCED LABORATORY IN LINGUISTICS (SUBTITLE REQUIRED)

LIN 695 - DIRECTED STUDIES IN LINGUISTICS

LIN 700 - ADVANCED SEMINAR IN PHONETICS (SUBTITLE REQUIRED)

LIN 701 - RESEARCH SEM IN LIN THEORY AND TYPOLOGY

LIN 705 - ADVANCED SEMINAR IN MORPHOLOGY (SUBTITLE REQUIRED)

LIN 706 - ADVANCED SEMINAR IN SOCIOLINGUISTICS (SUBTITLE REQUIRED)

LIN 709 - ADVANCED SEMINAR IN SEMANTICS AND PRAGMATICS (SUBTITLE REQUIRED)

LIN 710 - ADVANCED SEMINAR IN COMPUTATIONAL/CORPUS LINGUISTICS (SUBTITLE REQUIRED)

LIN 712 - ADVANCED SEMINAR IN SYNTAX (SUBTITLE REQUIRED)

LIN 715 - ADVANCED SEMINAR IN PHONOLOGY (SUBTITLE REQUIRED)

LIN 719 - ADVANCED SEMINAR IN HISTORICAL LINGUISTICS (SUBTITLE REQUIRED)

LIN 740 - LABORATORY FOR ADVANCED LINGUISTICS SEMINARS

LIN 748 - MASTERS THESIS RESEARCH

LIS 510 - CHILDRENS LITERATURE AND RELATED MATERIALS

LIS 514 - LITERATURE AND RELATED MEDIA FOR YOUNG ADULTS

LIS 600 - INFORMATION IN SOCIETY

LIS 601 - INFORMATION SEARCH

LIS 602 - KNOWLEDGE ORGANIZATION

LIS 603 - MANAGEMENT IN INFORMATION ORGANIZATIONS

LIS 604 - LIBRARY AND BOOK HISTORY

LIS 605 - INFORMATION POLICY AND TECHNOLOGY REGULATION

LIS 608 - METHODS OF RESEARCH IN LIBRARY AND INFORMATION SCIENCE

LIS 609 - CURRENT PROBLEMS IN LIBRARY AND INFORMATION SCIENCE

LIS 610 - LIBRARY MATERIALS AND LITERATURE FOR CHILDREN

LIS 611 - CRITICAL ANALYSIS OF CHILDREN'S LITERATURE

LIS 612 - YOUTH LITERATURE FOR A DIVERSE SOCIETY

LIS 613 - INFORMATION RESOURCES AND SERVICES FOR CHILDREN

LIS 614 - LIBRARY MATERIALS AND LITERATURE FOR YOUNG ADULTS

LIS 615 - PROSEMINAR IN COMMUNICATION AND INFORMATION SYSTEMS

LIS 616 - INFORMATION BEHAVIOR OF CHILDREN & YOUTH

LIS 617 - ELECTRONIC RESOURCE DEVELOPMENT

LIS 618 - GAMES, LITERACY, MEANING, AND LEARNING

LIS 619 - INFORMAL LEARNING IN INFORMATION ORGANIZATIONS

LIS 621 - INFORMATION RESOURCES AND SERVICES

LIS 622 - SOCIAL SCIENCE INFORMATION

LIS 623 - ADVANCED REFERENCE SERVICES

LIS 624 - INFORMATION IN SCIENCE AND TECHNOLOGY

LIS 625 - INFORMATION LITERACY INSTRUCTION

LIS 626 - ELECTRONIC INFORMATION RESOURCES IN THE HEALTH SCIENCES

LIS 627 - CONSUMER HEALTH INFORMATION RESOURCES

LIS 629 - INTRODUCTION TO MEDICAL INFORMATICS

LIS 630 - ONLINE INFORMATION RETRIEVAL

LIS 631 - SOCIAL MEDIA FOR INFORMATION ORGANIZATIONS

LIS 634 - INFORMATION ARCHITECTURE

LIS 636 - FOUNDATIONS OF INFORMATION TECHNOLOGY

LIS 637 - INFORMATION TECHNOLOGY

LIS 638 - INTERNET TECHNOLOGIES AND INFORMATION SERVICES

LIS 640 - HEALTH SCIENCES LIBRARIES

LIS 641 - LAW LIBRARIANSHIP

LIS 642 - ORAL HISTORY

LIS 643 - ARCHIVES AND MANUSCRIPTS MANAGEMENT

LIS 644 - ADMINISTRATION OF SCHOOL LIBRARY MEDIA CENTERS

LIS 645 - PUBLIC LIBRARIES

LIS 646 - ACADEMIC LIBRARIES

LIS 647 - CURRENT TRENDS IN SCHOOL MEDIA CENTERS

LIS 648 - TECHNOLOGY IN THE SCHOOL MEDIA CENTER

LIS 650 - TECHNICAL PROCESSING SYSTEMS

LIS 655 - ORGANIZATION OF KNOWLEDGE I

LIS 656 - ORGANIZATION OF KNOWLEDGE II

LIS 658 - KNOWLEDGE MANAGEMENT

LIS 659 - COLLECTION DEVELOPMENT

LIS 661 - INTRODUCTION TO DATA SCIENCE

LIS 662 - DATA ANALYSIS AND VISUALIZATION

LIS 665 - INTRODUCTION TO DIGITAL LIBRARIES

LIS 668 - DATABASE MANAGEMENT

LIS 672 - PRACTICUM

LIS 676 - SCHOOL MEDIA PRACTICUM

LIS 690 - SPECIAL TOPICS IN LIBRARY AND INFORMATION SCIENCE

LIS 695 - INDEPENDENT STUDY IN LIBRARY AND INFORMATION SCIENCE

LIS 748 - MASTER'S THESIS RESEARCH

LIS 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

MA 415G - COMBINATORICS AND GRAPH THEORY

MA 416G - INTRODUCTION TO OPTIMIZATION

MA 417G - DECISION MAKING UNDER UNCERTAINTY

MA 421G - MATHEMATICAL INTRODUCTION TO DEEP LEARNING

MA 427G - FINANCIAL MATHEMATICS

MA 432G - METHODS OF APPLIED MATHEMATICS I

MA 433G - INTRODUCTION TO COMPLEX VARIABLES

MA 471G - ADVANCED CALCULUS I

MA 472G - ADVANCED CALCULUS II

MA 481G - DIFFERENTIAL EQUATIONS

MA 483G - INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS

MA 485G - FOURIER SERIES AND BOUNDARY VALUE PROBLEMS

MA 501 - SEMINAR IN SELECTED TOPICS

MA 502 - SEMINAR IN SELECTED TOPICS

MA 503 - COMBINATORICS

MA 506 - METHODS OF THEORETICAL PHYSICS I

MA 507 - METHODS OF THEORETICAL PHYSICS II

MA 514 - COMBINATORIAL STRUCTURES AND TECHNIQUES

MA 515 - LINEAR AND COMBINATORIAL OPTIMIZATION

MA 522 - MATRIX THEORY AND NUMERICAL LINEAR ALGEBRA I

MA 527 - APPLIED MATHEMATICS IN THE NATURAL SCIENCES I

MA 532 - ORDINARY DIFFERENTIAL EQUATIONS

MA 533 - PARTIAL DIFFERENTIAL EQUATIONS

MA 537 - NUMERICAL ANALYSIS

MA 551 - TOPOLOGY I

MA 561 - MODERN ALGEBRA I

MA 565 - LINEAR ALGEBRA

MA 570 - MULTIVARIATE CALCULUS

MA 575 - PRINCIPLES OF ANALYSIS

MA 601 - TEACHING COLLEGE MATHEMATICS

MA 611 - INDEPENDENT WORK IN MATHEMATICS

MA 613 - PROBLEMS SEMINAR IN OPERATIONS RESEARCH

MA 614 - ENUMERATIVE COMBINATORICS

MA 616 - NUMERICAL TECHNIQUES FOR NONLINEAR OPTIMIZATION.

MA 617 - MARKOVIAN DECISION PROBLEMS

MA 622 - MATRIX THEORY AND NUMERICAL LINEAR ALGEBRA II

MA 625 - NUMERICAL METHODS FOR DIFFERENTIAL EQUATIONS

MA 628 - APPLIED MATHEMATICS IN THE NATURAL SCIENCES II

MA 630 - MATHEMATICAL FOUNDATIONS OF STOCHASTIC PROCESSES AND CONTROL THEORY I

MA 633 - THEORY OF PARTIAL DIFFERENTIAL EQUATIONS

MA 641 - DIFFERENTIAL GEOMETRY

MA 651 - TOPOLOGY II

MA 654 - ALGEBRAIC TOPOLOGY I

MA 655 - ALGEBRAIC TOPOLOGY II

MA 661 - MODERN ALGEBRA II

MA 665 - RINGS AND MODULES

MA 667 - GROUP THEORY

MA 671 - FUNCTIONS OF A COMPLEX VARIABLE I

MA 672 - FUNCTIONS OF A COMPLEX VARIABLE II

MA 676 - ANALYSIS I.

MA 677 - ANALYSIS II

MA 681 - FUNCTIONAL ANALYSIS I

MA 682 - FUNCTIONAL ANALYSIS II

MA 714 - TOPICS IN DISCRETE MATHEMATICS (SUBTITLE REQUIRED)

MA 721 - SELECTED TOPICS IN NUMERICAL ANALYSIS

MA 732 - SELECTED TOPICS IN DIFFERENTIAL AND INTEGRAL EQUATIONS

MA 748 - MASTER'S THESIS RESEARCH

MA 749 - DISSERTATION RESEARCH

MA 751 - SELECTED TOPICS IN TOPOLOGY

MA 752 - SELECTED TOPICS IN TOPOLOGY

MA 764 - SELECTED TOPICS IN ALGEBRA

MA 765 - SELECTED TOPICS IN ALGEBRA

MA 767 - DISSERTATION RESIDENCY CREDIT

MA 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

MA 769 - RESIDENCE CREDIT FOR DOCTOR'S DEGREE

MA 773 - SELECTED TOPICS IN ANALYSIS

MA 777 - MATHEMATICAL SEMINAR

MA 778 - MATHEMATICAL SEMINAR

MAP 671 - INTRODUCTION TO NEW MAPPING

MAP 672 - PROGRAMMING FOR WEB MAPPING

MAP 673 - DESIGN FOR INTERACTIVE WEB MAPPING

MAP 674 - SPATIAL DATA ANALYSIS AND VISUALIZATION

MAP 675 - COLLABORATIVE GEOVIZUALIZATION

MAP 695 - SPECIAL TOPICS IN DIGITAL MAPPING

MAP 698 - FINAL PROJECT PREPARATION

MAP 699 - FINAL PROJECT IMPLEMENTATION

MAP 701 - HISTORY OF CRITICAL CARTOGRAPHY

MAP 719 - SOCIAL IMPACTS OF NEW MAPPING

MAS 505 - MEDIA AND POPULAR CULTURE

MAS 520 - SOCIAL EFFECTS OF THE MASS MEDIA

MAS 530 - PRO-SEMINAR IN TELECOMMUNICATIONS

MAS 535 - TELECOMMUNICATIONS NETWORK MANAGEMENT

MAS 540 - SOCIAL MEDIA THEORY AND PRACTICE

MAS 555 - THE INTERNET AND SOCIAL CHANGE

MAS 560 - VIDEO GAME STUDIES

MAS 590 - SPECIAL TOPICS IN SOCIO-CULTURAL MEDIA STUDIES (SUBTITLE REQUIRED)

MAT 510 - BRAND MANAGEMENT

MAT 514 - RETAIL ENTREPRENEURSHIP

MAT 515 - SPECIFICATION AND EVALUATION OF TEXTILES AND APPAREL

MAT 520 - TEXTILES FOR INTERIORS

MAT 522 - HISTORY OF TEXTILES

MAT 533 - HISTORY OF COSTUME

MAT 547 - SOCIAL AND PSYCHOLOGICAL ASPECTS OF APPAREL

MAT 559 - SPECIAL TOPIC IN MERCHANDISING, APPAREL, AND TEXTILES (SUBTITLE REQUIRED)

MAT 570 - ELECTRONIC RETAILING (E-TAILING)

MAT 572 - INTERNATIONAL MERCHANDISING

MAT 595 - INDEPENDENT STUDY IN MERCHANDISING, APPAREL, AND TEXTILES

MAT 720 - RURAL RETAIL DEVELOPMENT

MAT 759 - SPECIAL TOPICS IN MERCHANDISING, APPAREL AND TEXTILES (SR)

MAT 785 - INDEPENDENT STUDY IN MERCHANDISING, APPAREL, AND TEXTILES

MAT 790 - RESEARCH PROB IN ID, MERCH, & TEXTILES

MB 749 - DISSERTATION RESEARCH

MB 767 - DISSERTATION RESIDENCY CREDIT

MB 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

MB 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

MBA 600 - RAPID IMMERSION IN ACCOUNTING

MBA 601 - RAPID IMMERSION IN DECISION MAKING

MBA 602 - LEADERSHIP

MBA 603 - MARKETS - STRUCTURE AND DYNAMICS

MBA 604 - FINANCE

MBA 605 - ORGANIZATIONAL STRUCTURES AND STRATEGIES

MBA 606 - MANAGEMENT INFORMATION SYSTEMS

MBA 607 - MARKETING

MBA 608 - HUMAN RESOURCES MANAGEMENT

MBA 609 - MANAGEMENT

MBA 610 - NEW PRODUCT DEVELOPMENT MARKETING

MBA 611 - NEW PRODUCT DEVELOPMENT MANAGEMENT

MBA 612 - BUSINESS FINANCE STRATEGIES

MBA 613 - FINANCE IN NEW PRODUCT DEVELOPMENT

MBA 614 - STRATEGIC INNOVATION, COMPETITIVE RIVALRY & GLOBAL STRATEGY

MBA 615 - SUPPLY CHAIN STRATEGY

MBA 616 - SUPPLY CHAIN OPERATIONS

MBA 617 - NEGOTIATIONS IN SUPPLY CHAIN MANAGEMENT

MBA 618 - GLOBAL STRATEGY

MBA 619 - MANAGERIAL ACCOUNTING IN NEW PRODUCT DEVELOPMENT

MBA 620 - RISK MANAGEMENT

MBA 621 - NEW VENTURE FINANCE

MBA 622 - INTERNATIONAL FINANCIAL MANAGEMENT

MBA 623 - INTERNATIONAL MARKETING

**MBA 624 - ENTREPRENEURSHIP AND MANAGEMENT TECHNOLOGY
COMMERCIALIZATION**

MBA 625 - SALES MANAGEMENT

MBA 626 - E-COMMERCE

MBA 627 - GLOBAL BUSINESS MANAGEMENT

MBA 628 - TECHNOLOGY MANAGEMENT

MBA 630 - PROFESSIONAL DEVELOPMENT

MBA 640 - PROJECT CONNECT I

MBA 642 - PROJECT CONNECT II

MBA 644 - PROJECT CONNECT IN MERGERS & ACQUISITIONS

MBA 645 - ENTP AND NEW VENTURE CREATION I

MBA 646 - ENTREPRENEURSHIP AND NEW VENTURE CREATION II

MBA 647 - NEW VENTURE FINANCE

**MBA 648 - THE LAW AND BUSINESS OF INTELLECTUAL PROPERTY
MANAGEMENT**

MBA 650 - MBA CAPSTONE COURSE

MBA 660 - DATA VISUALIZATION AND ANALYTICS

MC 510 - INTERNATIONAL SERVICE-LEARNING

MCL 500 - INTERCULTURAL COMMUNICATION FOR PROFESSIONALS

MCL 503 - FILM THEORY

MCL 510 - TEACHING METHODS: YOUNG LEARNERS & BEGINNING LEVEL STUDENTS

MCL 517 - SECOND LANGUAGE ACQUISITION

MCL 525 - CRITICAL ISSUES IN ASIAN STUDIES

MCL 575 - INTRODUCTION TO LINGUISTICS AND LANGUAGE STRUCTURE

MCL 591 - LANGUAGE PRACTICE LABORATORY: (SUBTITLE REQUIRED)

MCL 592 - RESEARCH PRACTICUM: (SUBTITLE REQUIRED)

MCL 593 - INTERNSHIP

MCL 595 - TOPICS IN FOLKLORE AND MYTH: SR

MCL 596 - TOPICS IN CULTURE (SUBTITLE REQUIRED)

MCL 597 - TOPICS IN COMPARATIVE LITERARY STUDIES (SUBTITLE REQUIRED)

MCL 598 - TOPICS IN LINGUISTICS (SUBTITLE REQUIRED)

MCL 601 - WORLD LANGUAGE TEACHING INTERNSHIP P-12

MCL 610 - WORLD LANGUAGE METHODS 9-12

MCL 650 - TOPICS IN INTERCULTURAL TEACHING: (SUBTITLE REQUIRED)

MCL 665 - SECOND LANGUAGE CURRICULUM & ASSESSMENT

MCL 690 - CULTURE, COGNITION, & SECOND LANGUAGE

MCL 696 - ADVANCED TOPICS IN CULTURE (SUBTITLE REQUIRED)

MCL 697 - ADVANCED TOPICS IN COMPARATIVE LITERARY STUDIES (SUBTITLE REQUIRED)

MCL 698 - ADVANCED TOPICS IN LINGUISTICS (SUBTITLE REQUIRED)

MD 582 - MEDICINE @ U NORTH CAR S M

MD 612 - MEDICINE @ UNIV CIN COL MED

MD 726 - MEDICINE @ UNIV OF TX HOUSTON

MD 800 - ELECTIVE: SPECIAL TOPICS

MD 810 - FOUNDATIONS OF INFECTION, DISEASE AND THERAPEUTICS

MD 811 - INTRODUCTION TO CLINICAL MEDICINE

MD 812 - CONTEMPORARY PRACTICE OF MEDICINE

MD 813 - BEHAVIORAL BASIS OF MEDICINE

MD 814 - CLINICAL ANATOMY AND RADIOLOGY

MD 816 - HEMATOLOGIC & LYMPHATIC

MD 817 - NEUROSCIENCES

MD 818 - MUSCULOSKELETAL & INTEGUMENTARY

MD 820 - CONTEMPORARY PRACTICE OF MEDICINE

MD 821 - ADVANCED CLINICAL MEDICINE

MD 824 - ENDOCRINE & REPRODUCTIVE SYSTEMS

MD 825 - RENAL & URINARY SYSTEMS

MD 826 - CARDIOVASCULAR SYSTEM

MD 827 - RESPIRATORY SYSTEM

MD 828 - GASTRIONTESTINAL SYSTEM AND NUTRITION

MD 829 - MULTISYSTEM & INTEGRATIVE CONCEPTS

MD 830 - PEDIATRICS CLERKSHIP

MD 831 - EMERGENCY MEDICINE CLERKSHIP

MD 832 - NEUROLOGY CLERKSHIP

MD 833 - PSYCHIATRY CLERKSHIP

MD 834 - FAMILY MEDICINE CLERKSHIP

MD 835 - INTERNAL MEDICINE CLERKSHIP

MD 837 - SURGERY CLERKSHIP

MD 838 - OBSTETRICS & GYNECOLOGY CLERKSHIP

MD 839 - ENTRUSTMENT IN CLINICAL MEDICINE

MD 840 - TRANSITION TO RESIDENCY

MD 841 - ELECTIVE: GERIATRICS

MD 843 - EMERGENCY MEDICINE

MD 844 - ELECTIVE: THE NARRATIVE BASIS FOR PATIENT CARE AND RESILIENT PRACTICE

MD 850 - ELECTIVE: CLINICAL INFORMATICS

MD 851 - ELECTIVE: RESEARCH IN MEDICINE

MD 855 - ELECTIVE: COMMUNITY ENGAGEMENT

MD 856 - INTEGRATIVE MEDICINE

MD 867 - MEDICINE @ UNIV OF MEXICO

MD 868 - MEDICINE @ PARAGUAY S AMERICA

MD 873 - MEDICINE @ GALASHIELS SCOTLAND

MD 891 - MEDICINE @ EQUADOR

MD 898 - MEDICINE @ RUHUMHA UNIV SIR LANKA

MD 902 - MEDICINE @ MANILA PHILLEPENES

MD1 521 - MEDICINE @ UMDNJ SCH OF MED

MD1 567 - INTERNAL MED @ NEW YORK UNIV

MD1 581 - INTERNAL MED @ GREENVILLE HOSP SYS

MD1 582 - INTERNAL MED @ BOWMAN GRAY S M

MD1 584 - INTERNAL MED @ UNIV N CAR SCH MED

MD1 601 - INT MED @ UNIV OF CIN

MD1 603 - INTERNAL MED @ UNIV HOSP OF CLEVELAND

MD1 604 - INTERNAL MED @ OHIO ST UNIV

MD1 611 - INT MED @ WRIGHT PATTERSON AFB

MD1 615 - MEDICINE @ CHRIST HOSP, OH

MD1 641 - INTERNAL MED @ OREGON HLTH SCI UNIV

MD1 669 - MEDICINE @ UNIV OF PITTSBURGH

MD1 673 - MEDICINE @ MERCY HOSP PITTSBURGH, PA

MD1 680 - MEDICINE @ MEDICAL UNIV S CAR

MD1 703 - INT MED @ VANDERBILT UNIV

MD1 709 - MEDICINE @ UNIV TN AT MEMPHIS

MD1 711 - MEDICINE @ BAPTIST HOSP NASHVILLE

MD1 719 - MEDICINE @ LBJ SPACE CTR TX

MD1 724 - MEDICINE @ UNIV TX GALVESTON

MD1 726 - MEDICINE @ UNIV OF TX HOUSTON

MD1 731 - MEDICINE @ BROOK ARMY MC TX

MD1 739 - MEDICINE @LACKLAND AFB, TX

MD1 840 - MEDICINE @ UNIV OF WIS MED SCH

MD1 890 - INT MED @ OFF-SITE CLKSHIP

MD2 601 - CARDIOLOGY @ UNIV OF CIN

MD2 611 - CARDIOLOGY @ WRIGHT PATTERSON AFB

MD2 680 - CARDIOLOGY @ MEDICAL UNIV S CAR

MD2 710 - CARIDOLOGY @ PAGE CAMPBELL GROUP

MD2 726 - CARIDOLOGY @ UNIV OF TX HOUSTON

MD3 586 - DERMATOLOTY @ WAKE FOREST UNIV

MD3 596 - DERMATOLOGY @ WAKE FOREST UNIV

MD3 601 - DERMATOLOGY @ UNIV OF CIN

MD3 605 - DERMATOLOGY @ RESEARCH WRIGHT STATE

MD3 608 - DERMATOLOGY @ CASE WESTERN RESERVE

MD3 612 - DERMATOLOGY @ CLEVELAND CLINIC

MD3 660 - DERMATOLOGY @ GEISINGER MC

MD3 680 - DERMATOLOGY @ GEISINGER HOSP, DANVILLE

MD3 682 - DERMATOLOGY @ UNIV OF S CAR

MD3 702 - DERMATOLOGY @ UNIV TN COL MED

MD3 709 - DERMATOLOGY @ UNIV OF TN

MD3 726 - DERMATOLOGY @ UNIV OF TX

MD3 727 - DERMOTOLGY @ UT TEXAS

MD3 739 - DERMATOLOGY @ LACKLAND AFB

MD3 840 - DERMATOLOGY @ UNIV OF WI

MD6 611 - NEPHROLOGY @ WRIGHT PATTERSON

MD6 615 - NEPHROLOGY @ WRIGHT ST UNIV

MD6 780 - NEPHROLOGY @ UNIV OF VA

MD7 584 - INFECTIOUS DIS @ UNIV OF N CAR

MD7 641 - INFECTIOUS DIS @ OREGON HLT SCI UNIV

MD7 711 - INFECTIOUS DIS @ BAPTIST HOSP NASHVILLE

MD7 903 - INFECTIOUS DIS @ BRAZIL

MD8 556 - PULMONARY MED@ PATCHUGUE NY

MD8 880 - PULMONARY MED @ LONDON ENGLAND

MD9 582 - HEMA/ON @ BOWMAN GRAY

MD9 596 - HEMA/ONC @ WAKE FOREST UNIV

MD9 601 - HEMA/ON @ UNIV OF CIN

MD9 703 - HEMA/ON @ VANDERBILT UNIV

MDE 800 - INTRODUCTION TO CLINICAL ETHICS

MDE 801 - CLINICAL ETHICS SUMMER INTENSIVE

MDE 803 - GLOBAL HEALTH DELIVERY

MDE 810 - INTRODUCTION TO CLINICAL RESEARCH

MDE 811 - INTRODUCTION TO CLINICAL EPIDEMIOLOGY AND BIostatISTICS

MDE 816 - GLOBAL HEALTH RESEARCH

MDM 830 - WOMEN'S MATERNAL AND CHILD HEALTH/PEDIATRICS

MDM 842 - ADVANCED CLINICAL PHARMACOLOGY AND ANESTHESIOLOGY

ME 501 - MECHANICAL DESIGN WITH FINITE ELEMENT METHODS

ME 503 - LEAN MANUFACTURING PRINCIPLES AND PRACTICES

ME 505 - MODELING OF MANUFACTURING PROCESSES AND MACHINES

ME 506 - MECHANICS OF COMPOSITE MATERIALS

ME 507 - DESIGN FOR MANUFACTURING

ME 510 - VIBRO-ACOUSTIC DESIGN IN MECHANICAL SYSTEMS

ME 511 - MACHINING OF MATERIALS AND APPLICATIONS

ME 512 - MANUFACTURING SYSTEMS

ME 513 - MECHANICAL VIBRATIONS

ME 514 - COMPUTATIONAL TECHNIQUES IN MECHANICAL SYSTEM ANALYSIS

ME 515 - ROTORDYNAMICS OF TURBOMACHINERY

ME 516 - SYSTEMS ENGINEERING

ME 526 - LEAN OPERATIONS MANAGEMENT I

ME 527 - APPLIED MATHEMATICS IN THE NATURAL SCIENCES I

ME 530 - GAS DYNAMICS

ME 531 - FLUID DYNAMICS I

ME 532 - ADVANCED STRENGTH OF MATERIALS

ME 542 - KINEMATIC SYNTHESIS OF MECHANISMS

ME 548 - AERODYNAMICS OF TURBOMACHINERY

ME 549 - POWER GENERATION

ME 554 - CHEMICAL AND PHYSICAL PROCESSING OF POLYMER SYSTEMS

ME 555 - INTRODUCTION TO MICRO-/NANO-ELECTROMECHANICAL SYSTEMS

ME 556 - INTRODUCTION TO COMPOSITE MATERIALS

ME 560 - ENGINEERING OPTICS

ME 563 - BASIC COMBUSTION PHENOMENA

ME 565 - SCALE MODELING IN ENGINEERING

ME 570 - FUNDAMENTALS OF NANOELECTRONIC DEVICES AND MATERIALS

ME 580 - HEATING, VENTILATING AND AIR CONDITIONING

ME 583 - INDUSTRIAL ENERGY UTILIZATION AND ASSESSMENT

ME 585 - FOURIER SERIES AND BOUNDARY VALUE PROBLEMS

ME 590 - APPLIED CFD AND NUMERICAL HEAT TRANSFER

ME 599 - TOPICS IN MECHANICAL ENGINEERING (SUBTITLE REQUIRED)

ME 601 - INTRODUCTION TO FINITE ELEMENT ANALYSIS

ME 602 - DYNAMICS OF DISTRIBUTED MECHANICAL SYSTEMS

ME 603 - MECHANICS OF PLASTIC SOLIDS I

ME 605 - MODELING, SIMULATION AND CONTROL FOR MANUFACTURING

ME 606 - GLOBAL ISSUES IN MANUFACTURING

ME 607 - ANALYSIS OF METAL CUTTING PROCESSES

ME 608 - NONTRADITIONAL MANUFACTURING PROCESSES

ME 610 - ENGINEERING ACOUSTICS

ME 611 - BOUNDARY ELEMENT METHODS IN ENGINEERING

ME 613 - NONLINEAR OSCILLATIONS

ME 620 - ADVANCED ENGINEERING THERMODYNAMICS I

ME 625 - ADVANCED HEAT CONDUCTION

ME 626 - ADVANCED HEAT CONVECTION

ME 627 - RADIATION HEAT TRANSFER

ME 628 - BOILING AND CONDENSATION

ME 631 - FLUID DYNAMICS II

ME 634 - TURBULENT FLOWS

ME 641 - FOUNDATIONS OF SOLID MECHANICS

ME 644 - ADVANCED DYNAMICS I

ME 645 - ADVANCED CONTROL SYSTEM ANALYSIS

ME 647 - SYSTEM OPTIMIZATION I

ME 651 - MECHANICS OF ELASTIC SOLIDS I

ME 652 - MECHANICS OF ELASTIC SOLIDS II

ME 672 - NONLINEAR SYSTEMS & CONTROL

ME 681 - MECHANICAL ANALYSIS OF BIOLOGICAL SYSTEMS

ME 690 - ADVANCED ALGORITHMS FOR COMPUTATIONAL FLUID DYNAMICS

ME 691 - CFD I - INCOMPRESSIBLE FLOWS

ME 692 - CFD II - COMPRESSIBLE FLOWS

ME 699 - TOPICS IN MECHANICAL ENGINEERING (SUBTITLE REQUIRED)

ME 748 - MASTER'S THESIS RESEARCH

ME 749 - DISSERTATION RESEARCH

ME 767 - DISSERTATION RESIDENCY CREDIT

ME 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

ME 769 - RESIDENCE CREDIT FOR THE DOCTOR S DEGREE

ME 780 - SPECIAL PROBLEMS IN MECHANICAL ENGINEERING

ME 790 - RESEARCH IN MECHANICAL ENGINEERING

ME 799 - MECHANICAL ENGINEERING GRADUATE SEMINAR

ME1 611 - RHEUMATOLOGY @ WRIGHT PATTERSON AFB

ME2 596 - RES IN MED @ WAKE FOREST UNIV

MED 616 - BIOLOGY AND THERAPY OF CANCER

MED 815 - FIRST-YEAR ELECTIVE, MEDICINE

MED 825 - SECOND-YEAR ELECTIVE, MEDICINE

MED 849 - ELECTIVE: EXTRAMURAL ROTATION IN INTERNAL MEDICINE

MED 850 - ELECTIVE: ENDOCRINOLOGY & METABOLISM

MED 851 - ELECTIVE: GASTROENTEROLOGY

MED 852 - INTERNAL MEDICINE - RHEUMATOLOGY

MED 856 - ELECTIVE: NEPHROLOGY

MED 857 - ELECTIVE: PULMONARY MEDICINE

MED 858 - ELECTIVE: CARDIOLOGY

MED 860 - ELECTIVE: INFECTIOUS DISEASES

MED 861 - ELECTIVE: WOMEN'S HEALTH

MED 862 - CARDIOLOGY-VAH

MED 863 - ELECTIVE: RESEARCH IN INTERNAL MEDICINE

MED 864 - ELECTIVE: ADDICTION MEDICINE

MED 865 - ELECTIVE: SLEEP MEDICINE

MED 866 - AMBULATORY MEDICINE

MED 867 - ELECTIVE: PATIENT SAFETY & HEALTH CARE SYSTEMS

MED 870 - ACTING INTERNSHIP: INTERNAL MEDICINE

MED 871 - ACTING INTERNSHIP: CRITICAL CARE MEDICINE (MICU)

MED 872 - ACTING INTERNSHIP: MEDICINE/PEDIATRICS

MED 873 - ACTING INTERNSHIP: GENERAL INTERNAL MEDICINE OUTPATIENT CLINICS

MED 874 - ELECTIVE: UNIVERSITY HEALTH SERVICE

MED 875 - ELECTIVE: AMBULATORY MED-PEDS

MED 876 - ELECTIVE: HEMATOLOGY ONCOLOGY

MED 878 - CRITICAL CARE MEDICINE SJH

MED 879 - GENERAL MEDICAL CONSULTING SERVICE

MED 881 - ALLERGY-MEDICINE

MED 890 - ELECTIVE: INTERNAL MEDICINE OFF-SITE

MED 901 - ACTING INTERNSHIP: COMMUNITY INTERNAL MEDICINE IN MOREHEAD

MED 902 - ELECTIVE: GASTROENTEROLOGY IN MOREHEAD

MED 903 - ELECTIVE: COMMUNITY INTERNAL MEDICINE-PEDIATRICS AT MOREHEAD

MED 904 - HOSPICE AND PALLIATIVE CARE AT MOREHEAD

MED 905 - PULMONARY AND CRITICAL CARE MEDICINE AT MOREHEAD

MED 906 - ELECTIVE: HEMATOLOGY & ONCOLOGY AT MOREHEAD

MED 907 - ELECTIVE: CARDIOLOGY AT MOREHEAD

MED 908 - ELECTIVE: NEPHROLOGY AT MOREHEAD

MED 931 - ACTING INTERNSHIP: INTERNAL MEDICINE IN BOWLING GREEN

MED 932 - ACTING INTERNSHIP: CRITICAL CARE MEDICINE IN BOWLING GREEN

MED 933 - ACTING INTERNSHIP: PULMONARY MEDICINE IN BOWLING GREEN

MED 934 - ACTING INTERNSHIP: CARDIOLOGY IN BOWLING GREEN

MED 935 - ACTING INTERNSHIP: AMBULATORY MEDICINE PEDIATRICS IN BOWLING GREEN

MED 936 - ELECTIVE: ENDOCRINOLOGY & METABOLISM IN BOWLING GREEN

MED 937 - ELECTIVE: GASTROENTEROLOGY IN BOWLING GREEN

MED 938 - ELECTIVE: NEPHROLOGY IN BOWLING GREEN

MED 939 - ELECTIVE: OUTPATIENT PULMONARY MEDICINE IN BOWLING GREEN

MED 940 - ELECTIVE: OUTPATIENT CARDIOLOGY IN BOWLING GREEN

MED 941 - ELECTIVE: HEMATOLOGY & ONCOLOGY IN BOWLING GREEN

MED 942 - ELECTIVE: ALLERGY & IMMUNOLOGY IN BOWLING GREEN

MED 943 - ELECTIVE: HOSPICE AND PALLIATIVE CARE IN BOWLING GREEN

MED 944 - ELECTIVE: RHEUMATOLOGY IN BOWLING GREEN

MED 945 - ELECTIVE: GERIATRICS IN BOWLING GREEN

MED 999 - MEDICINE EXTRAMURAL

MFS 501 - MECHANICAL DESIGN WITH FINITE ELEMENT METHODS

MFS 502 - INTRODUCTION TO APPLIED LEAN OPERATIONS

MFS 503 - LEAN MANUFACTURING PRINCIPLES AND PRACTICES

MFS 505 - MODELING OF MANUFACTURING PROCESSES AND MACHINES

MFS 507 - DESIGN FOR MANUFACTURING

MFS 509 - LEADERSHIP FOR A LEAN ENTERPRISE

MFS 511 - MACHINING OF MATERIALS AND APPLICATIONS

MFS 512 - MANUFACTURING SYSTEMS

MFS 513 - MECHANICAL VIBRATIONS

MFS 515 - ROTORDYNAMICS OF TURBOMACHINERY

MFS 520 - INDUSTRIAL AUTOMATION AND CONTROL

**MFS 523 - CONCEPTS, ASSESSMENT TOOLS AND METHODS IN SUSTAINABLE
POWER AND ENERGY**

MFS 525 - ORGANIZATIONAL LEARNING FOR LEAN MANUFACTURING

MFS 526 - LEAN OPERATIONS MANAGEMENT I

MFS 529 - LEAN OPERATIONS MANAGEMENT II

MFS 541 - OCCUPATIONAL BIOMECHANICS

MFS 554 - CHEMICAL AND PHYSICAL PROCESSING OF POLYMER SYSTEMS

MFS 556 - INTRODUCTION TO COMPOSITE MATERIALS

MFS 563 - SIMULATION OF INDUSTRIAL PRODUCTION SYSTEMS

MFS 581 - QUALITY CONTROL

MFS 583 - INDUSTRIAL ENERGY UTILIZATION AND ASSESSMENT

MFS 599 - TOPICS IN MANUFACTURING SYSTEMS ENGINEERING (SUBTITLE REQUIRED)

MFS 603 - MANAGEMENT FOR A LEAN SYSTEM

MFS 605 - MODELING, SIMULATION AND CONTROL FOR MANUFACTURING

MFS 606 - GLOBAL ISSUES IN MANUFACTURING

MFS 607 - ANALYSIS OF METAL CUTTING PROCESSES

MFS 608 - NONTRADITIONAL MANUFACTURING PROCESSES

MFS 611 - MANAGING EFFECTIVE ORGANIZATIONS

MFS 612 - DESIGN OF LEAN MANUFACTURING SYSTEMS

MFS 613 - SUSTAINABILITY, ETHICS, AND LEADERSHIP IN MANUFACTURING ORGANIZATIONS

MFS 681 - SUSTAINABLE QUALITY SYSTEMS DESIGN

MFS 699 - TOPICS IN MANUFACTURING SYSTEMS ENGINEERING (SUBTITLE REQUIRED)

MFS 748 - MASTER'S THESIS RESEARCH

MFS 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

MFS 780 - SPECIAL PROBLEMS IN MANUFACTURING SYSTEMS ENGINEERING

MFS 784 - RESEARCH PROJECT IN MANUFACTURING SYSTEMS ENGINEERING

MGT 530 - SERVICES MARKETING MANAGEMENT

MGT 608 - COMPARATIVE INTERNATIONAL MANAGEMENT

MGT 610 - GLOBAL MANAGEMENT

MGT 611 - MANAGING EFFECTIVE ORGANIZATIONS

MGT 612 - NEGOTIATION AND CONFLICT RESOLUTION

MGT 620 - PERSONNEL AND INDUSTRIAL RELATIONS

MGT 624 - ENTREPRENEURSHIP & BUSINESS START UPS

MGT 641 - LEGAL ISSUES IN THE ACCOUNTING PROFESSION

MGT 650 - TALENT ACQUISITION

MGT 651 - TALENT MANAGEMENT

MGT 652 - LEGAL ENVIRONMENT OF HUMAN RESOURCES

MGT 653 - PEOPLE ANALYTICS

MGT 660 - STRATEGIC HUMAN CAPITAL PLANNING AND INTEGRATION

MGT 661 - CHANGE MANAGEMENT

MGT 663 - CONDUCTING RESEARCH IN HUMAN RESOURCES

MGT 664 - BASICS AND APPLICATIONS OF HUMAN RESOURCE INFORMATION SYSTEMS

MGT 667 - ORGANIZATIONAL NETWORK ANALYSIS

MGT 668 - NETWORK APPLICATIONS IN HUMAN RESOURCE MANAGEMENT

MGT 669 - APPLICATIONS OF HUMAN RESOURCE ANALYTICS

MGT 670 - HUMAN RESOURCE CONSULTING

MGT 690 - STRATEGIC THINKING & ANALYSIS

MGT 695 - INDIVIDUAL WORK IN MANAGEMENT

MGT 697 - LEADERSHIP, COMMUNICATIONS & ETHICS

MGT 699 - BUSINESS POLICY AND STRATEGY II

MGT 711 - ORGANIZATIONS AND EXTERNAL SYSTEMS

MGT 712 - ORGANIZATIONS AND INDIVIDUAL BEHAVIOR

MGT 713 - SEMINAR IN ADVANCED ORGANIZATION THEORY

MGT 714 - SEMINAR IN MANAGEMENT THEORY AND POLICY

MGT 763 - RESEARCH, DESIGN AND ANALYSIS

MGT 780 - ADVANCED SOCIAL NETWORK ANALYSIS

MGT 781 - INDEPENDENT WORK IN MANAGEMENT

MGT 790 - DOCTORAL COLLOQUIUM

MGT 795 - SPECIAL TOPICS IN MANAGEMENT (SUBTITLE REQUIRED)

MI 494G - IMMUNOBIOLOGY

MI 495G - BACTERIAL PATHOGENESIS

MI 496G - TUMOR IMMUNOLOGY AND IMMUNOTHERAPY

MI 582 - VIROLOGY

MI 590 - CELLULAR AND MOLECULAR PHYSIOLOGY

MI 595 - IMMUNOBIOLOGY LABORATORY

MI 598 - CLINICAL MICROBIOLOGY

MI 601 - SPECIAL TOPICS IN MOLECULAR AND CELLULAR GENETICS

MI 611 - BIOPATHOLOGY

MI 615 - MOLECULAR BIOLOGY

MI 616 - BIOLOGY AND THERAPY OF CANCER

MI 618 - MOLECULAR NEUROBIOLOGY

MI 685 - IMMUNOBIOLOGY, INFECTION, AND INFLAMMATION

MI 707 - CONTEMPORARY TOPICS IN IMMUNOLOGY

MI 710 - SPECIAL TOPICS IN MICROBIOLOGY

MI 720 - MICROBIAL STRUCTURE AND FUNCTION

MI 725 - MECHANISMS OF MICROBIAL PATHOGENESIS

MI 748 - MASTER'S THESIS RESEARCH

MI 749 - DISSERTATION RESEARCH

MI 767 - DISSERTATION RESIDENCY CREDIT

MI 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

MI 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

MI 772 - SEMINAR IN MICROBIOLOGY

MI 798 - RESEARCH IN MICROBIOLOGY

MI 815 - FIRST-YEAR ELECTIVE, MEDICAL MICROBIOLOGY AND IMMUNOLOGY

MI 816 - CELLULAR STRUCTURE AND FUNCTION/GENETICS

MI 822 - IMMUNITY, INFECTION, AND DISEASE

MI 825 - SECOND-YEAR ELECTIVE, MEDICAL MICROBIOLOGY AND IMMUNOLOGY

MI 828 - IMMUNITY, INFECTION AND DISEASE FOR THE STUDENT DENTIST

MI 850 - FOURTH YEAR ELECTIVE FOR MEDICAL STUDENTS

MKT 530 - SERVICES MARKETING MANAGEMENT

MKT 600 - MARKETING MANAGEMENT

MKT 601 - MARKETING RESEARCH

MKT 610 - CONSUMER INSIGHTS AND ANALYSIS

MKT 611 - NEW PRODUCT DEVELOPMENT

MKT 615 - MARKETING COMMUNICATIONS & SOCIAL MEDIA

MKT 620 - DIGITAL MARKETING & ANALYTICS

MKT 621 - PRODUCT MANAGEMENT

MKT 622 - PERSONAL SELLING & SALES MANAGEMENT

MKT 623 - MARKETING IN SERVICE AND NONPROFIT ORGANIZATIONS

MKT 624 - INTERNATIONAL MARKETING MANAGEMENT

MKT 625 - BRANDING

MKT 629 - MARKETING ANALYTICS & DATA VISUALIZATION

MKT 630 - SUPPLY CHAIN FUNDAMENTALS AND STRATEGY

MKT 631 - PRODUCTION AND OPERATIONS MANAGEMENT

MKT 632 - SUPPLY CHAIN MODELING & ANALYSIS

MKT 633 - APPLIED DATA ANALYTICS

MKT 634 - QUALITY MANAGEMENT & LEAN OPERATIONS

MKT 635 - LOGISTICS MANAGEMENT

MKT 636 - SOURCING, PURCHASING & CONTRACT MANAGEMENT

MKT 637 - NEGOTIATION IN THE SUPPLY CHAIN

MKT 651 - CORPORATE SOCIAL RESPONSIBILITY

MKT 695 - INDIVIDUAL WORK IN MARKETING

MKT 700 - SEMINAR IN MARKETING MANAGEMENT

MKT 710 - SEMINAR IN CONSUMER BEHAVIOR

MKT 711 - SEMINAR IN CONSUMER RESEARCH DEVELOPMENT

MKT 712 - SEMINAR IN CONSUMER PSYCHOLOGY

MKT 720 - SEMINAR IN MARKETING THEORY

MKT 740 - INDUSTRY PROJECT

MKT 763 - RESEARCH, DESIGN AND ANALYSIS

MKT 771 - SEMINAR IN BUSINESS ADMINISTRATION

MKT 781 - INDEPENDENT WORK IN MARKETING

MLS 500 - INTEGRATIVE CARE FOR HEALTH SCIENCES

MNG 511 - MINE POWER SYSTEM DESIGN

MNG 520 - INDUSTRIAL AUTOMATION AND CONTROL

MNG 531 - ADVANCED BLAST DESIGN AND TECHNOLOGY

MNG 535 - ENVIRONMENTAL CONTROL SYSTEM DESIGN AND RECLAMATION

MNG 541 - COMPUTER DESIGN OF MINE VENTILATION SYSTEMS

MNG 551 - ROCK MECHANICS

MNG 552 - GROUND CONTROL SOFTWARE AND ANALYSIS

MNG 555 - ADVANCED GEOMECHANICS I

MNG 561 - MINE CONSTRUCTION ENGINEERING I

MNG 563 - SIMULATION OF MINE PRODUCTION SYSTEMS

MNG 572 - ADVANCED COAL PREPARATION

MNG 575 - COAL PREPARATION DESIGN

MNG 580 - MINERAL PROCESSING PLANT DESIGN

MNG 581 - GEOSTATISTICS

MNG 585 - APPLIED SURFACE CHEMISTRY

MNG 591 - MINE DESIGN PROJECT I

MNG 592 - MINE DESIGN PROJECT II

MNG 599 - TOPIC IN MINING ENGINEERING

MNG 611 - MINE POWER SYSTEM PROTECTION

MNG 621 - INSTRUMENTATION FOR BLASTING AND BLAST MITIGATION

MNG 625 - IDENTIFICATION, MITIGATION, AND CONTROL OF THE ENVIRONMENTAL ASPECTS OF BLASTING

MNG 634 - ADVANCED MINE ENGINEERING

MNG 635 - DATA ANALYSIS AND DESIGN OF EXPERIMENTS

MNG 637 - ROCK SLOPE STABILITY AND DESIGN

MNG 641 - ADVANCED MINE VENTILATION

MNG 655 - ADVANCED GEOMECHANICS II

MNG 681 - GEOSTATISTICS II

MNG 690 - ADVANCED MINERAL BENEFICIATION ENGINEERING

MNG 691 - SIMULATION OF MINERAL PROCESSING CIRCUITS

MNG 699 - TOPICS IN MINING ENGINEERING (SUBTITLE REQUIRED)

MNG 748 - MASTER'S THESIS RESEARCH

MNG 749 - DISSERTATION RESEARCH

MNG 767 - DISSERTATION RESIDENCY CREDIT

MNG 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

MNG 769 - RESIDENT CREDIT FOR DOCTOR'S DEGREE

MNG 771 - SEMINAR IN MINING ENGINEERING

MNG 780 - SPECIAL PROBLEMS IN MINING ENGINEERING

MNG 790 - SPECIAL RESEARCH PROBLEMS IN MINING ENGINEERING

MP1 566 - MED/PEDS @ MT SINAI HOSP NYC

MSE 401G - METAL AND ALLOYS

MSE 402G - ELECTRONIC MATERIALS AND PROCESSING

MSE 403G - CERAMIC ENGINEERING AND PROCESSING

MSE 404G - POLYMERIC MATERIALS

MSE 506 - MECHANICS OF COMPOSITE MATERIALS

MSE 510 - STRUCTURE OF MATERIALS

MSE 520 - ADVANCED MATERIALS CHARACTERIZATION: IMAGING AND SURFACE SCIENCE TECHNIQUES

MSE 521 - ADVANCED MATERIALS CHARACTERIZATION: DIFFRACTION AND SPECTROSCOPY TECHNIQUES

MSE 531 - POWDER METALLURGY

MSE 535 - MECHANICAL PROPERTIES OF MATERIALS

MSE 538 - METALS PROCESSING

MSE 542 - EXTRACTIVE METALLURGY

MSE 550 - CORROSION

MSE 552 - AUTOMOTIVE PLASTICS

MSE 554 - CHEMICAL AND PHYSICAL PROCESSING OF POLYMER SYSTEMS

MSE 555 - INTRODUCTION TO MICRO-/NANO-ELECTROMECHANICAL SYSTEMS

MSE 556 - INTRODUCTION TO COMPOSITE MATERIALS

MSE 558 - PRINCIPLES OF POLYMER CHARACTERIZATION AND ANALYSIS

MSE 561 - ELECTRIC AND MAGNETIC PROPERTIES OF MATERIALS

MSE 568 - FIBER OPTICS

MSE 569 - ELECTRONIC PACKAGING SYSTEMS AND MANUFACTURING PROCESSES

MSE 570 - FUNDAMENTALS OF NANOELECTRONIC DEVICES AND MATERIALS

MSE 580 - MATERIAL SELECTION AND FAILURE ANALYSIS

MSE 585 - MATERIALS CHARACTERIZATION TECHNIQUES

MSE 599 - TOPICS IN MATERIALS SCIENCE AND ENGINEERING (SUBTITLE REQUIRED)

MSE 601 - INTRODUCTION TO MATERIALS SCIENCE AND ENGINEERING

MSE 607 - ANALYSIS OF METAL CUTTING PROCESSES

MSE 620 - COMPUTATIONAL MATERIALS SCIENCE ENGINEERING

MSE 622 - PHYSICS OF POLYMERS

MSE 632 - ADVANCED MATERIALS SCIENCE

MSE 635 - ADVANCED MECHANICAL METALLURGY

MSE 636 - DISLOCATION THEORY

MSE 650 - ADVANCED MATERIALS THERMODYNAMICS

MSE 659 - ADVANCED PHASE DIAGRAMS

MSE 661 - ADVANCED PHYSICAL METALLURGY I

MSE 662 - ADVANCED PHYSICAL METALLURGY II

MSE 663 - OPTOELECTRONIC DEVICES

MSE 664 - MULTIDISCIPLINARY SENSORS LABORATORY

MSE 665 - CRYSTALLOGRAPHY AND X-RAY ANALYSIS

MSE 666 - DIFFRACTION METHODS IN MATERIALS SCIENCE

MSE 699 - ADVANCED TOPICS IN MATERIALS SCIENCE AND ENGINEERING

MSE 748 - MASTER'S THESIS RESEARCH

MSE 749 - DISSERTATION RESEARCH

MSE 767 - DISSERTATION RESIDENCY CREDIT

MSE 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

MSE 769 - RESIDENCE CREDIT FOR DOCTOR'S DEGREE

MSE 771 - SEMINAR

MSE 781 - SPECIAL PROBLEMS, LITERATURE AND LABORATORY

MSE 782 - SPECIAL PROBLEMS, LITERATURE AND LABORATORY

MSE 790 - RESEARCH IN MATERIALS SCIENCE

MUC 423G - FUNCTIONAL GUITAR SKILLS

MUC 570 - ADVANCED CHAMBER MUSIC ENSEMBLE

MUC 596 - OPERA WORKSHOP

MUC 675 - JAZZ ENSEMBLE

MUC 689 - WIND ENSEMBLE

MUC 691 - ORCHESTRA

MUC 692 - UNIVERSITY CHORISTERS

MUP 501 - PIANO

MUP 502 - VOICE

MUP 503 - ORGAN

MUP 504 - VIOLIN

MUP 505 - VIOLA

MUP 506 - CELLO

MUP 507 - STRING BASS

MUP 508 - FLUTE

MUP 509 - OBOE

MUP 510 - CLARINET

MUP 511 - BASSOON

MUP 512 - TRUMPET

MUP 513 - FRENCH HORN

MUP 514 - TROMBONE

MUP 515 - EUPHONIUM

MUP 516 - TUBA

MUP 517 - SAXOPHONE

MUP 518 - PERCUSSION

MUP 519 - HARP

MUP 520 - HARPSICHORD

MUP 521 - ENGLISH HORN

MUP 522 - HISTORICAL INSTRUMENTS

MUP 523 - CLASSICAL GUITAR

MUP 530 - VOCAL COACHING FOR SINGERS

MUP 531 - INSTRUMENTAL COLLABORATION

MUP 558 - CONDUCTING

MUP 601 - PIANO

MUP 602 - VOICE

MUP 603 - ORGAN

MUP 604 - VIOLIN

MUP 605 - VIOLA

MUP 606 - CELLO

MUP 607 - STRING BASS

MUP 608 - FLUTE

MUP 609 - OBOE

MUP 610 - CLARINET

MUP 611 - BASSOON

MUP 612 - TRUMPET

MUP 613 - FRENCH HORN

MUP 614 - TROMBONE

MUP 615 - EUPHONIUM

MUP 616 - TUBA

MUP 617 - SAXOPHONE

MUP 618 - PERCUSSION

MUP 619 - HARP

MUP 620 - HARPSICHORD

MUP 622 - HISTORICAL INSTRUMENTS

MUP 623 - CLASSICAL GUITAR

MUP 630 - VOCAL COACHING FOR SINGERS

MUP 640 - GRADUATE DEGREE RECITAL

MUP 658 - CONDUCTING

MUP 701 - PIANO

MUP 702 - VOICE

MUP 703 - ORGAN

MUP 704 - VIOLIN

MUP 705 - VIOLA

MUP 706 - CELLO

MUP 708 - FLUTE

MUP 709 - OBOE

MUP 710 - CLARINET

MUP 711 - BASSOON

MUP 712 - TRUMPET

MUP 713 - FRENCH HORN

MUP 714 - TROMBONE

MUP 716 - TUBA

MUP 717 - SAXOPHONE

MUP 718 - PERCUSSION

MUP 730 - VOCAL COACHING FOR SINGERS

MUP 758 - CONDUCTING

MURR 9999 - MURRAY STATE ENGINEERING

MUS 400G - MUSIC HISTORY REVIEW

MUS 430G - MUSIC THERAPY FOUNDATIONS & PRINCIPLES I

MUS 431G - MUSIC THERAPY FOUNDATIONS & PRINCIPLES II

MUS 432G - MUSIC THERAPY APPLICATIONS

MUS 433G - MUSIC THERAPY CLINICAL INTERNSHIP

MUS 434G - MUSIC THERAPY CLINICAL SKILLS

MUS 435G - ANATOMY FOR MUSIC THERAPY PRACTICE

MUS 470G - REVIEW OF HARMONY

MUS 471G - REVIEW OF AURAL SKILLS

MUS 500 - MUSIC OF THE MIDDLE AGES

MUS 501 - MUSIC OF THE RENAISSANCE

MUS 502 - MUSIC OF THE BAROQUE ERA

MUS 503 - MUSIC OF THE CLASSIC PERIOD

MUS 504 - MUSIC OF THE NINETEENTH CENTURY

MUS 505 - MUSIC OF THE TWENTIETH CENTURY

MUS 506 - HISTORY OF AMERICAN MUSIC

MUS 507 - TOPICS IN MUSIC HISTORY AND LITERATURE: SUBTITLE REQUIRED

MUS 520 - VOCAL SOLO LITERATURE

MUS 521 - ORGAN LITERATURE

MUS 522 - PIANO LITERATURE TO 1830

MUS 523 - PIANO LITERATURE SINCE 1830

MUS 530 - COLLEGIUM MUSICUM

MUS 540 - APPLICATIONS OF MUSIC TECHNOLOGY

MUS 550 - TOPICS IN MUSIC EDUCATION (SUBTITLE REQUIRED)

MUS 555 - SOUNDS OF MUSIC: PSYCHOLOGY & PERCEPTION

MUS 560 - ORFF SCHULWERK

MUS 561 - ORFF CERTIFICATION: LEVEL I, II, OR III

MUS 566 - PIANO PEDAGOGY

MUS 570 - ORCHESTRATION

MUS 571 - ORCHESTRATION

MUS 572 - COUNTERPOINT

MUS 573 - COUNTERPOINT

MUS 574 - COMPOSITION

MUS 575 - COMPOSITION

MUS 578 - ANALYSIS AND STYLE SURVEY

MUS 600 - RESEARCH I

MUS 601 - FOUNDATIONS IN MUSIC EDUCATION

MUS 618 - RESEARCH METHODS

MUS 620 - ADVANCED VOCAL REPERTORY (SUBTITLE REQUIRED)

MUS 622 - SYMPHONIC LITERATURE

MUS 623 - OPERA LITERATURE I

MUS 624 - CHAMBER MUSIC LITERATURE

MUS 625 - CHORAL LITERATURE

MUS 627 - OPERA LITERATURE II

MUS 630 - MEDICAL MUSIC THERAPY

MUS 631 - MUSIC IN COUNSELING

MUS 633 - GRADUATE CLINICAL PLACEMENT IN MUSIC THERAPY

MUS 648 - MUSIC SOFTWARE TECHNOLOGY

MUS 650 - MUSIC EDUCATION WORKSHOP

**MUS 660 - ADVANCED MUSIC EDUCATION METHODS AND MATERIALS
(SUBTITLE REQUIRED)**

MUS 662 - DALCROZE APPROACH I

MUS 663 - DALCROZE APPROACH II

MUS 664 - INCLUSIVE MUSIC PRINCIPLES AND PRACTICES

MUS 665 - PHYSIOLOGY AND FUNCTIONING OF THE SINGING VOICE

MUS 666 - ADVANCED ORFF SCHULWERK

MUS 667 - MATERIALS, TECHNIQUES AND LITERATURE OF VOICE TEACHING

MUS 668 - DALCROZE APPROACH III

MUS 669 - INDIVIDUAL DALCROZE PROJECT

MUS 670 - ANALYSIS OF TONAL MUSIC I

MUS 671 - ANALYSIS OF TONAL MUSIC II

MUS 672 - ANALYSIS OF MUSIC SINCE 1900 I

MUS 673 - ADVANCED COMPOSITION

MUS 674 - PEDAGOGY OF THEORY

MUS 675 - INTERNSHIP IN THEORY PEDAGOGY

MUS 676 - ADVANCED ANALYTICAL TECHNIQUES

MUS 678 - HISTORY OF THEORY

MUS 680 - BAND HISTORY AND LITERATURE

MUS 681 - ADVANCED REHEARSAL TECHNIQUES - BAND

MUS 682 - COLLABORATIVE PIANO LITERATURE 1

MUS 683 - COLLABORATIVE PIANO LITERATURE 2

MUS 684 - ADVANCED STRING METHODS AND MATERIALS

MUS 690 - TOPICS IN MUSICOLOGY (SUBTITLE REQUIRED)

MUS 693 - WORLD MUSIC FOR TEACHERS

MUS 694 - INTERNSHIP IN SACRED MUSIC

MUS 695 - INDEPENDENT WORK IN MUSIC

MUS 700 - MEDIEVAL AND RENAISSANCE NOTATION

MUS 702 - SEMINAR IN MUSICOLOGY

MUS 703 - PROSEMINAR IN MUSICOLOGICAL METHODS

MUS 704 - MUSIC TECHNOLOGIES

MUS 705 - RESEARCH II

MUS 706 - MUSIC LEARNING AND BEHAVIOR

MUS 707 - TESTS AND MEASUREMENTS IN MUSIC

MUS 710 - INTRODUCTION TO ETHNOMUSICOLOGY

MUS 711 - SEMINAR IN ETHNOMUSICOLOGY

MUS 719 - INDEPENDENT WORK IN MUSICOLOGY

MUS 730 - INDEPENDENT WORK IN MUSIC THERAPY

MUS 731 - MUSIC PERCEPTION AND COGNITION

MUS 732 - TOPICS IN MUSIC THERAPY

MUS 748 - MASTER'S THESIS RESEARCH

MUS 749 - DISSERTATION RESEARCH

MUS 750 - INDEPENDENT WORK IN MUSIC EDUCATION

MUS 760 - MUSIC RESEARCH III

MUS 762 - MUSIC IN HIGHER EDUCATION

MUS 766 - SEMINAR IN MUSIC EDUCATION

MUS 767 - DISSERTATION RESIDENCY CREDIT

MUS 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

MUS 769 - RESIDENCE CREDIT FOR DOCTOR'S DEGREE

MUS 770 - PSYCHOLOGY OF MUSIC

MUS 772 - SEMINAR IN THEORY

MUS 780 - DIRECTED RESEARCH IN VOCAL LITERATURE

MUS 799 - INDEPENDENT WORK IN MUSIC THEORY

NEU 605 - PRINCIPLES OF NEUROBIOLOGY

NEU 815 - FIRST-YEAR ELECTIVE, NEUROLOGY

NEU 825 - SECOND-YEAR ELECTIVE, NEUROLOGY

NEU 849 - ELECTIVE: EXTRAMURAL ROTATION IN NEUROLOGY

NEU 850 - ACTING INTERNSHIP: NEUROLOGY

NEU 851 - ACTING INTERNSHIP: CHILD NEUROLOGY

NEU 852 - ELECTIVE: RESEARCH IN NEUROLOGY

NEU 853 - NEUROLOGY CONSULTATION

NEU 854 - ELECTIVE: CLINICAL NEUROPHYSIOLOGY

NEU 890 - NEUROLOGY OFF SITE

NEU 901 - COMMUNITY NEUROLOGY

NEU 931 - ACTING INTERNSHIP: NEUROLOGY IN BOWLING GREEN

NEU 932 - ELECTIVE: NEUROPSYCHOLOGY IN BOWLING GREEN

NEUM 999 - TITLE NEEDED

NFS 685 - MINERAL METABOLISM

NR2 601 - NEUROLOGY @ UNIV OF CIN

NR2 703 - NEUROLOGY @ VANDERBILT UNIV

NR6 730 - PEDS NEUROLOGY @ LACKLAND AFB TX

NR6 780 - PEDIATRIC NEUROLOGY @ UNIV OF VA

NRE 420G - TAXONOMY OF VASCULAR PLANTS

NRE 470G - SOIL NUTRIENT MANAGEMENT

NRE 545 - RESOURCE AND ENVIRONMENTAL ECONOMICS

NRE 556 - CONTEMPORARY GEOSPATIAL APPLICATIONS FOR LAND ANALYSIS

NRE 590 - SPECIAL TOPICS IN NATURAL RESOURCES AND ENVIRONMENTAL SCIENCE: SUBTITLE REQUIRED

NS 550 - DRUG AND NUTRIENT INTERACTIONS

NS 601 - INTEGRATED NUTRITIONAL SCIENCES I

NS 602 - INTEGRATED NUTRITIONAL SCIENCES II

NS 603 - INTEGRATED NUTRITIONAL SCIENCES III

NS 604 - LIPID METABOLISM

NS 605 - ADVANCED SPORTS NUTRITION

NS 606 - MOLECULAR BIOLOGY APPLICATIONS IN NUTRITION

NS 607 - FOOD RELATED BEHAVIORS

NS 608 - NUTRITIONAL IMMUNOLOGY

NS 609 - ETHICS IN CLINICAL SCIENCES RESEARCH

NS 620 - NUTRITION AND AGING

NS 623 - PROFESSIONAL DEVELOPMENT FOR SCIENTISTS IN TRAINING

NS 630 - ADVANCED COMMUNITY NUTRITION

NS 640 - HUMAN NUTRITION: ASSESSMENT

NS 680 - LABORATORY METHODS IN NUTRITIONAL SCIENCES

NS 689 - NUTRITION AND CHRONIC DISEASES

NS 702 - CLINICAL/WELLNESS PROBLEM-BASED CASE STUDIES

NS 704 - CURRENT TOPICS IN NUTRITIONAL SCIENCES

NS 748 - MASTER'S THESIS RESEARCH

NS 749 - DISSERTATION RESEARCH

NS 767 - DISSERTATION RESIDENCY CREDIT

NS 768 - RESIDENCE CREDIT FOR THE MASTERS DEGREE

NS 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

NS 771 - GRADUATE SEMINAR IN NUTRITIONAL SCIENCES

NS 782 - SPECIAL PROBLEMS

NS 790 - RESEARCH IN NUTRITIONAL SCIENCES

NS 801 - PRECISION NUTRITION AND ADVANCED CULINARY MEDICINE

NSG 849 - ELECTIVE: EXTRAMURAL ROTATION IN NEUROSURGERY

NSG 864 - ACTING INTERNSHIP: NEUROSURGERY

NSG 931 - ACTING INTERNSHIP: NEUROSURGERY IN BOWLING GREEN

NUR 510 - OLDER WOMEN AND THEIR HEALTH

NUR 511 - END OF LIFE CARE IN THE ACUTE CARE SETTING

NUR 512 - COMPLEMENTARY/ALTERNATIVE APPROACHES TO HEALTH CARE

NUR 518 - LOVE YOURSELF: INTRODUCTION TO MINDFULNESS & WELLNESS

NUR 520 - SPECIAL TOPICS IN NURSING: (SUBTITLE REQUIRED)

NUR 540 - INTRODUCTION TO US HEALTHCARE SYSTEM

NUR 600 - ADVANCED NURSING PRACTICE: ROLES AND ISSUES

NUR 601 - THEORETICAL BASIS FOR ADVANCED PRACTICE NURSING

NUR 602 - RESEARCH METHODS IN ADVANCED PRACTICE NURSING

NUR 603 - CLINICAL REASONING IN ADVANCED PRACTICE NURSING

NUR 604 - LEADERSHIP IN ADVANCED PRACTICE NURSING

NUR 605 - EVIDENCE-BASED NURSING PRACTICE

NUR 610 - NURSING LEADERSHIP IN HEALTH CARE

NUR 612 - NURSING RESEARCH METHODS

NUR 614 - ECONOMIC AND FINANCIAL ASPECTS OF CLINICAL AND POPULATION-BASED HEALTH CARE DELIVERY SYSTEMS

NUR 615 - EVALUATING EVIDENCE FOR RESEARCH AND EVIDENCE-BASED PRACTICE

NUR 617 - TECHNOLOGY FOR TRANSFORMING NURSING AND HEALTH CARE

NUR 619 - QUALITY AND SAFETY IN NURSING AND HEALTHCARE

NUR 620 - PROBLEMS IN CLINICAL NURSING

NUR 621 - TOBACCO TREATMENT SPECIALIST TRAINING: TOBACCO USE AND COUNSELING

NUR 622 - ASSESSING TOBACCO USE AND TREATMENT PLANNING

NUR 623 - TOBACCO TREATMENT SPECIALIST TRAINING: TOBACCO TREATMENT PHARMACOLOGY

NUR 624 - CONCEPTS, THEORIES, AND MODELS FOR ADVANCED PRACTICE NURSING

NUR 627 - ISSUES IN RURAL NURSING AND HEALTH CARE DELIVERY

NUR 628 - POPULATION FOCUSED PRACTICE IN THE COMMUNITY

NUR 631 - APPLICATIONS OF ADVANCED HEALTH ASSESSMENT

NUR 632 - COMPREHENSIVE PATIENT MANAGEMENT I

NUR 633 - COMPREHENSIVE PATIENT MANAGEMENT II

NUR 635 - FOCUSED ADVANCED HEALTH ASSESSMENT

NUR 641 - BEST PRACTICES IN CLINICAL TEACHING

NUR 650 - ADVANCED PHYSICAL AND HEALTH ASSESSMENT

NUR 651 - DIAGNOSTIC LABORATORY PROCEDURES

NUR 652 - ADVANCED PHARMACOLOGY FOR ADVANCED PRACTICE NURSES

NUR 653 - PATHOPHYSIOLOGY

NUR 654 - COMMON HEALTH PROBLEMS OF YOUNG, MIDDLE, AND OLDER ADULTS I

NUR 655 - COMMON HEALTH PROBLEMS OF YOUNG, MIDDLE, AND OLDER ADULTS II

NUR 656 - HEALTH PROBLEMS OF THE PEDIATRIC CLIENT

NUR 657 - HEALTH ISSUES OF THE CHILD AND ADOLESCENT CLIENT

NUR 660 - MSN CAPSTONE PRACTICUM

NUR 663 - MANAGEMENT OF CLINICAL NURSING PRACTICE I

NUR 668 - PSYCHOTHERAPEUTICS FOR ADVANCED NURSING PRACTICE

NUR 673 - MANAGEMENT OF CLINICAL NURSING PRACTICE II

NUR 676 - WOMEN'S HEALTH: A PUBLIC HEALTH PERSPECTIVE

NUR 683 - MANAGEMENT OF CLINICAL NURSING PRACTICUM III

NUR 700 - BEHAVIORAL RESPONSES TO HEALTH PROBLEMS

NUR 701 - BIOLOGICAL RESPONSES TO HEALTH PROBLEMS

NUR 702 - BIOLOGICAL PHENOMENA IN ACUTE ILLNESS

NUR 703 - BIOLOGICAL AND BEHAVIORAL PHENOMENA IN CHRONIC ILLNESS

NUR 704 - ADULT-GERONTOLOGY CLINICAL NURSE SPECIALIST IN PROMOTING HEALTH AND WELLNESS ACROSS THE LIFE SPAN OF THE ADULT

NUR 705 - ACUTE AND CHRONIC ILLNESS AND NURSING THERAPEUTICS II

NUR 706 - ADVANCED PRACTICE NURSING CARE OF ACUTELY ILL ADULTS

NUR 707 - ADVANCED PRACTICE NURSING CARE OF CRITICALLY ILL ADULTS

NUR 708 - MEASURING AND DOCUMENTING NURSING PRACTICE

NUR 710 - ADVANCED PARENT-CHILD NURSING I

NUR 711 - ADVANCED PARENT-CHILD NURSING II

NUR 712 - ADVANCED PARENT-CHILD SEMINAR

NUR 713 - ADVANCED NURSING CARE FOR FAMILIES, PRE-CONCEPTION THROUGH ADOLESCENCE I

NUR 714 - ADVANCED NURSING CARE FOR FAMILIES, PRE-CONCEPTION THROUGH ADOLESCENCE II

NUR 715 - PERINATAL NURSING: LOW RISK FAMILIES

NUR 716 - PERINATAL NURSING: HIGH RISK MOTHER

NUR 717 - PERINATAL NURSING: HIGH RISK NEONATE

NUR 720 - ADVANCED PSYCHIATRIC/MENTAL HEALTH NURSING I

NUR 721 - ADVANCED PSYCHIATRIC/MENTAL HEALTH NURSING II

NUR 722 - CLINICAL TOPICS IN ADVANCED PRACTICE PSYCHIATRIC MENTAL HEALTH NURSING

NUR 723 - ADVANCED PRACTICE PSYCHIATRIC NURSING I

NUR 724 - ADVANCED PRACTICE PSYCHIATRIC NURSING II

NUR 725 - ADVANCED PRACTICE NURSING SEMINAR FOR NURSE PRACTITIONERS

NUR 726 - PRIMARY CARE ADVANCED PRACTICE NURSING SEMINAR

NUR 727 - PRIMARY CARE ADVANCED PRACTICE NURSING SEMINAR

NUR 730 - LEADING CHANGE: SEMINAR

NUR 731 - LEADING CHANGE: PRACTICUM

NUR 732 - ADVANCED PRACTICE IN PUBLIC HEALTH NURSING ASSESSMENT SPECIALTY SEMINAR

NUR 733 - ADVANCED PRACTICE IN PUBLIC HEALTH NURSING PRACTICUM I: POLICY

NUR 734 - ADVANCED PRACTICE IN PUBLIC HEALTH NURSING: PRACTICUM II: ASSURANCE

NUR 736 - RELATIONSHIP-BASED LEADERSHIP IN HEALTHY WORKING ENVIRONMENTS: SEMINAR

NUR 737 - RELATIONSHIP-BASED LEADERSHIP IN HEALTHY WORKING ENVIRONMENTS: PRACTICUM

NUR 738 - MODELS AND PROCESSES OF NURSING CARE MANAGEMENT

NUR 739 - NURSING CARE MANAGEMENT - CLINICAL OUTCOMES AND QUALITY IMPROVEMENT

NUR 740 - NURSE-MIDWIFERY MANAGEMENT: NEONATE

NUR 741 - NURSE-MIDWIFERY MANAGEMENT: WELL WOMAN

NUR 742 - NURSE-MIDWIFERY MANAGEMENT: ANTEPARTAL WOMAN

NUR 743 - NURSE-MIDWIFERY MANAGEMENT: INTRAPARTAL AND POSTPARTAL WOMAN

NUR 744 - NURSE-MIDWIFERY MANAGEMENT: WOMAN WITH PROBLEMS

NUR 745 - NURSE-MIDWIFERY PRACTICE ORGANIZATIONS

NUR 749 - DISSERTATION RESEARCH

NUR 750 - CLINICAL MODELS FOR PROFESSIONAL AND ADVANCED NURSING CARE

NUR 751 - RURAL HEALTH NURSING MANAGEMENT PRACTICUM

NUR 752 - CULTURALLY COMPETENT HEALTHCARE: CLIENT, CLINICIAN, AND ORGANIZATIONAL PERSPECTIVES

NUR 760 - OCCUPATIONAL/ENVIRONMENTAL HEALTH NURSING I (OEHNI): PRINCIPLES AND PRACTICE

NUR 761 - OCCUPATIONAL/ENVIRONMENTAL HEALTH NURSING II (OEHNI): RESEARCH AND POLICY

NUR 763 - FOUNDATIONS OF SCIENCE AND KNOWLEDGE DEVELOPMENT IN NURSING

NUR 764 - SYSTEMATIC REVIEWS OF THE LITERATURE

NUR 765 - RESEARCH DESIGN AND METHODS: QUALITATIVE, QUANTITATIVE AND MIXED METHODS RESEARCH

NUR 766 - RESPONSIBLE CONDUCT OF RESEARCH

NUR 767 - DISSERTATION RESIDENCY CREDIT

NUR 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

NUR 770 - PHILOSOPHICAL FOUNDATIONS OF NURSING SCIENCE

NUR 771 - RESEARCH EXPERIENCE

NUR 772 - DISSEMINATION OF SCHOLARSHIP AND SCIENTIFIC FINDINGS

NUR 773 - RESEARCH PROPOSAL DEVELOPMENT

NUR 776 - SPECIAL TOPICS SEMINAR (SUBTITLE REQUIRED)

NUR 778 - PROSEMINAR IN CONTEMPORARY HEALTH AND NURSING POLICY ISSUES

NUR 779 - DOCTORAL SEMINAR: (SUBTITLE REQUIRED)

NUR 781 - INDEPENDENT STUDY IN NURSING

NUR 790 - KNOWLEDGE DEVELOPMENT IN NURSING

NUR 791 - QUALITATIVE METHODS IN NURSING RESEARCH

NUR 792 - QUANTITATIVE METHODS IN NURSING RESEARCH

NUR 793 - MEASUREMENT OF NURSING PHENOMENA

NUR 794 - ANALYSIS, INTERPRETATION, AND PRESENTATION OF QUANTITATIVE DATA

NUR 824 - CLINICAL DECISION MAKING IN PROFESSIONAL NURSING I

NUR 900 - PROCESS OF NURSING LEADERSHIP

NUR 902 - NURSING LEADERSHIP IN HEALTH CARE

NUR 903 - APPLIED BIostatISTICS FOR OUTCOMES EVALUATION

NUR 904 - EPIDEMIOLOGY APPLIED TO THE DESIGN AND EVALUATION OF NURSING AND HEALTH SERVICES

NUR 905 - DOCTOR OF NURSING PRACTICE SEMINAR

NUR 906 - APPLICATION OF BIostatISTICS AND EPIDEMIOLOGY FOR STRATEGIC DECISION MAKING

NUR 907 - FOUNDATIONS FOR POPULATION-FOCUSED INTERVENTIONS IN CLINICAL PRACTICE

NUR 909 - PROPOSAL DEVELOPMENT

NUR 910 - DNP PROJECT

NUR 914 - ECONOMIC AND FINANCIAL ASPECTS OF CLINICAL AND POPULATION-BASED HEALTH CARE DELIVERY SYSTEMS

NUR 915 - EVALUATING EVIDENCE FOR RESEARCH AND EVIDENCE-BASED PRACTICE

NUR 916 - PROGRAM PLANNING AND EVALUATION FOR IMPROVEMENT IN PRACTICE AND HEALTH OUTCOMES

NUR 917 - TECHNOLOGY FOR TRANSFORMING NURSING AND HEALTH CARE

NUR 918 - PROTECTION OF HUMAN SUBJECTS

NUR 919 - QUALITY AND SAFETY IN NURSING AND HEALTHCARE

NUR 920 - ADVANCED NURSING PRACTICE IN DYNAMIC HEALTH CARE SYSTEMS

NUR 921 - PATHOPHYSIOLOGY

**NUR 922 - ADVANCED PHARMACOLOGY FOR ADVANCED PRACTICE NURSES:
(SUBTITLE REQUIRED)**

NUR 923 - APPLICATIONS OF ADVANCED HEALTH ASSESSMENT

NUR 924 - CONCEPTS, THEORIES, AND MODELS FOR ADVANCED PRACTICE NURSING

NUR 925 - RESEARCH METHODS IN ADVANCED PRACTICE NURSING

NUR 926 - SYSTEMS APPLICATION OF ADVANCED HEALTH ASSESSMENT

NUR 927 - SPECIAL TOPICS IN PHARMACOLOGY

NUR 930 - PROBLEMS IN ADVANCED PRACTICE NURSING (SR: SUBTITLE REQUIRED)

NUR 940 - ROLES, ISSUES, AND HEALTH PROMOTION FOR THE ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER

NUR 941 - ADULT-GERONTOLOGY ACUTE CARE NURSE PRACTITIONER SEMINAR I

NUR 942 - ADULT-GERONTOLOGY ACUTE CARE NURSE PRACTITIONER SEMINAR II

NUR 943 - ADULT GERONTOLOGY-ACUTE CARE NURSE PRACTITIONER CLINICAL PRACTICUM I

NUR 944 - ADULT GERONTOLOGY-ACUTE CARE NURSE PRACTITIONER CLINICAL PRACTICUM II

NUR 945 - ADULT-GERONTOLOGY CLINICAL NURSE SPECIALIST IN PROMOTING HEALTH AND WELLNESS ACROSS THE LIFE SPAN OF THE ADULT

NUR 946 - ADULT-GERONTOLOGICAL CLINICAL NURSE SPECIALIST PROVIDING ACUTE CARE ACROSS THE LIFE SPAN OF THE ADULT

NUR 947 - ADULT-GERONTOLOGICAL CLINICAL NURSE SPECIALIST PROVIDING CHRONIC CARE ACROSS THE LIFE SPAN OF THE ADULT

NUR 948 - CLINICAL PROBLEMS IN ACUTE CARE ACROSS THE ADULT GERO LIFE SPAN IN ADVANCE PRACTICE NURSING

NUR 949 - CLINICAL PROBLEMS IN CHRONIC CARE ACROSS THE ADULT GERO LIFE SPAN IN ADVANCE PRACTICE NURSING

NUR 950 - PRIMARY CARE ADVANCED PRACTICE CLINICAL: SUBTITLE REQUIRED

NUR 952 - PEDIATRIC ACUTE CARE ADVANCED PRACTICE CLINICAL: (SUBTITLE REQUIRED)

NUR 955 - PEDIATRIC DEVELOPMENT AND WELLNESS: ADVANCED ROLE CONCEPTS

NUR 956 - PNP-PRIMARY CARE: ACUTE ILLNESS MANAGEMENT

NUR 957 - PNP-PRIMARY CARE: CHRONIC ILLNESS AND SPECIAL NEEDS MANAGEMENT

NUR 958 - PNP-ACUTE CARE: ACUTE/COMPLEX ILLNESS MANAGEMENT

NUR 959 - PNP-ACUTE CARE: CHRONIC ILLNESS AND SPECIAL NEEDS MANAGEMENT

NUR 960 - HEALTH PROMOTION AND ROLE DEVELOPMENT FOR PRIMARY CARE NURSE PRACTITIONERS

NUR 961 - EPISODIC HEALTH PROBLEMS IN ADULT AND GERIATRIC PRIMARY CARE

NUR 962 - CHRONIC HLTH PROBS ADULT GERO PRIM CARE

NUR 963 - PRIMARY CARE OF CHILDREN AND CHILDBEARING FAMILIES

NUR 965 - ROLE AND PRACTICE ISSUES FOR THE ADVANCED PRACTICE PSYCHIATRIC NURSE

NUR 966 - DIAGNOSIS AND MANAGEMENT OF PSYCHIATRIC ILLNESSES IN ADULTS AND ELDERLY

NUR 967 - DIAGNOSIS AND MANAGEMENT OF PSYCHIATRIC ILLNESSES IN CHILDREN, ADOLESCENTS AND YOUNG ADULTS

NUR 968 - CLINICAL MANAGEMENT OF PSYCHIATRIC DISORDERS IN ADULTS AND ELDERLY

NUR 969 - CLINICAL MANAGEMENT OF PSYCHIATRIC DISORDERS IN CHILDREN, ADOLESCENTS AND YOUNG ADULTS

NUR 970 - ASSESSMENT AND DESIGN OF COMPLEX HEALTHCARE SYSTEMS: SEMINAR

NUR 971 - ASSESSMENT AND DESIGN OF COMPLEX HEALTHCARE SYSTEMS: CLINICAL PRACTICUM

NUR 972 - RELATIONSHIP-BASED LEADERSHIP IN HEALTHY WORKING ENVIRONMENTS: SEMINAR

NUR 973 - RELATIONSHIP-BASED LEADERSHIP IN HEALTHY WORKING ENVIRONMENTS: PRACTICUM

NUR 974 - STRATEGIC LEADERSHIP IN COMPLEX HEALTHCARE ORGANIZATIONS

NUR 975 - STRATEGIC LEADERSHIP IN COMPLEX HEALTHCARE ORGANIZATIONS PRACTICUM

NUR 976 - POPULATIONS AND ORGANIZATIONAL SYSTEMS LEADERSHIP III SEMINAR: SYSTEMS AND COMMUNITY DIMENSIONS OF CRISES AND DISASTER PREPAREDNESS

NUR 977 - POPULATIONS AND ORGANIZATIONAL SYSTEMS LEADERSHIP III CLINICAL: SYSTEMS AND COMMUNITY DIMENSION OF CRISES AND DISASTER PREVENTION

NUR 978 - POPULATION HEALTH: SEMINAR

NUR 979 - POPULATION HEALTH: CLINICAL

NUR 980 - SPECIAL TOPICS IN NURSING: (SUBTITLE REQUIRED)

NUR 981 - INDEPENDENT STUDY IN NURSING

OBG 815 - FIRST-YEAR ELECTIVE, OBSTETRICS AND GYNECOLOGY

OBG 825 - SECOND-YEAR ELECTIVE, OBSTETRICS AND GYNECOLOGY

OBG 849 - ELECTIVE: EXTRAMURAL ROTATION IN OBSTETRICS & GYNECOLOGY

OBG 850 - ACTING INTERNSHIP: GYNECOLOGIC ONCOLOGY

OBG 851 - GYNECOLOGIC SUBSPECIALTIES SECONDARY ACTING INTERNSHIP

OBG 852 - OBSTETRICS AND GYNECOLOGY INDEPENDENT STUDY

OBG 854 - ACTING INTERNSHIP: OBSTETRICS (LABOR & DELIVERY)

OBG 855 - ELECTIVE: GYNECOLOGY

OBG 857 - OBSTETRICS AND GYNECOLOGY, MOREHEAD, KY

OBG 859 - RESEARCH IN OBSTETRICS

OBG 860 - RESEARCH IN GYNECOLOGY

OBG 863 - ACTING INTERNSHIP: HIGH RISK OBSTETRICS (MFM)

OBG 890 - ELECTIVE: OBSTETRICS & GYNECOLOGY OFF-SITE

OBG 901 - ACTING INTERNSHIP: COMMUNITY OBSTETRICS & GYNECOLOGY IN MOREHEAD

OBG 931 - ACTING INTERNSHIP: LABOR & DELIVERY IN BOWLING GREEN

OBG 932 - ELECTIVE: OUTPATIENT GYNECOLOGY IN BOWLING GREEN

OBI 650 - ORAL BIOLOGY FOR POSTGRADUATE DENTAL STUDENTS I

OBI 651 - ORAL BIOLOGY FOR POSTGRADUATE DENTAL STUDENTS II

OBI 720 - MICROBIAL STRUCTURE AND FUNCTION

OBI 812 - DENTAL BIOCHEMISTRY

OBI 813 - NEUROPHYSIOLOGY

OBI 814 - DENTAL HUMAN FUNCTION

OBI 815 - GROSS ANATOMY AND NEUROANATOMY

OBI 817 - DENTAL NEUROANATOMY

OBI 822 - MICROBIOLOGY, IMMUNOLOGY, AND INFECTIOUS DISEASE

OBI 828 - IMMUNITY, INFECTION AND DISEASE FOR THE STUDENT DENTIST

OBI 829 - ORAL BIOLOGY

OBI 836 - DENTAL PHARMACOLOGY

OBI 840 - CLINICAL DENTAL PHARMACOLOGY

OBID 814 - PRINCIPLES OF HUMAN PHYSIOLOGY FOR DENTAL STUDENTS

OBID 828 - IMMUNITY, INFECTION AND DISEASE FOR THE STUDENT DENTIST

ODM 810 - BASIC PRINCIPLES IN ORAL AND MAXILLOFACIAL RADIOLOGY

ODM 814 - ORAL DIAGNOSIS/ORAL MEDICINE & TREATMENT PLANNING

ODM 820 - ORAL AND MAXILLOFACIAL RADIOLOGY AND DIAGNOSTIC IMAGING

ODM 821 - CLINICAL ORAL DIAGNOSIS I

ODM 830 - MANAGEMENT OF THE MEDICALLY COMPROMISED DENTAL PATIENT

ODM 831 - CLINICAL ORAL DIAGNOSIS II

ODM 841 - CLINICAL ORAL DIAGNOSIS III

ODM 850 - ORAL DIAGNOSIS ELECTIVE

ODM 880 - CONCEPTS IN ORAL RAD INTERPRETATION

OFP 634 - CURRENT CONCEPTS IN TEMPOROMANDIBULAR DISORDERS

OFP 635 - ADVANCED CONCEPTS IN TEMPOROMANDIBULAR DISORDERS

OFP 636 - CLINICAL MANAGEMENT OF TEMPOROMANDIBULAR DISORDERS

OFP 638 - ADVANCED CLINICAL MANAGEMENT OF TEMPOROMANDIBULAR DISORDERS

OFP 700 - OROFACIAL PAIN TREATMENT PLANNING SEMINAR

OFP 702 - COMPREHENSIVE OROFACIAL PAIN TREATMENT PLANNING SEMINAR

OFP 734 - CURRENT CONCEPTS IN OROFACIAL PAIN

OFP 735 - ADVANCED CONCEPTS IN OROFACIAL PAIN

OFP 736 - CLINICAL MANAGEMENT OF OROFACIAL PAIN

OFP 738 - ADVANCED CLINICAL MANAGEMENT OF OROFACIAL PAIN DISORDERS

OFP 748 - MASTER'S THESIS RESEARCH

OFP 768 - RESIDENT'S CREDIT FOR MASTER'S DEGREE

OFP 790 - RESEARCH IN OROFACIAL PAIN

OG1 568 - OB/GYN @ SUNY STONY BROOK

OG1 601 - OBSTETRICS @ UNIV OF CIN

OG1 616 - OBSTETRICS @ GOOD SAM HOSP CIN

OG1 723 - OB @ UNIV OF TX SOUTHWESTERN

OG1 785 - OB/GYN @ RIVERSIDE REGIONAL MED CTR, VA

OG2 680 - GYN/ONC @ MEDICAL UNI OF S CAR

OG3 540 - OB/GYN @ UNIV OF NEW MEXICO

OG3 571 - OB/GYN @ A EINSTEIN, NY

OG3 582 - OB/GYN @ N CAR BAPTIST HOSP

OG3 583 - OB/GYN @ E CAR UNIV

OG3 584 - OB/GYN @ UNIV N CAR

OG3 601 - OB/GYN @ UNIV OF CIN

OG3 604 - OB/GYN @ OHIO ST UNIV

OG3 616 - OB/GYN @ GOOD SAMARITAN CIN

OG3 669 - OB/GYN @ UNIV OF PITTSBURGH

OG3 680 - OB/GYN @ MED UNIV S CAR

OG3 723 - OB/GYN @ UT SOUTHWESTERN

OG3 725 - OB/GYN @ BAYLOR UNIV

OG3 780 - OB/GYN @ UNIV VA

OG3 783 - OB/GYN @ PORTSMOUTH NAVAL HOSP

OG3 820 - OB/GYN @ W VA UNIV

OG3 822 - OB/GYN @ WEST VA UNIV

OG4 680 - GYN/ONC @ UNIV S CAR

OHP 850 - INDEPENDENT RESEARCH IN ORAL HEALTH PRACTICE

OHS 850 - INDEPENDENT RESEARCH IN ORAL HEALTH SCIENCE

OL1 523 - OPHTHALMOLOGY @ NJ MED SCH

OL1 571 - OPHTHALMOLOGY @ ALBERT EINSTEIN, NY

OL1 674 - OPHTHALMOLOGY @ WILLS EYE HOSP

OL1 680 - OPHTHALMOLOGY @ MED UNIV S CAR

OL1 682 - OPHTHALMOLOGY @ UNIV S CAR, COMUMBIA

OL1 703 - OPHTHALMOLOGY @ VANDERBILT UNIV

OL1 721 - OPHTHALMOLOGY @ BAYLOR UNIV

OL1 730 - OPHTHALMOLOGY @ WILFORD HALL AFB

OPH 801 - M1-M2 ELECTIVE IN OPHTHALMOLOGY

OPH 815 - FIRST-YEAR ELECTIVE, OPHTHALMOLOGY

OPH 825 - SECOND-YEAR ELECTIVE, OPHTHALMOLOGY

OPH 849 - ELECTIVE: EXTRAMURAL ROTATION IN OPHTHALMOLOGY

OPH 850 - ELECTIVE: OPHTHALMOLOGY

OPH 851 - ELECTIVE: RESEARCH IN OPHTHALMOLOGY

OPH 852 - ELECTIVE: ADVANCED OPHTHALMOLOGY RESEARCH

OPH 890 - ELECTIVE: OPHTHALMOLOGY OFF-SITE

OPH 931 - ELECTIVE: OPHTHALMOLOGY IN BOWLING GREEN

OPT 650 - GRADUATE ORAL PATHOLOGY I

OPT 820 - GENERAL PATHOLOGY FOR STUDENT DENTISTS

OPT 830 - ORAL PATHOLOGY I

OPT 832 - ORAL PATHOLOGY II

OPT 840 - ORAL PATHOLOGY III

OPT 850 - ORAL PATHOLOGY ELECTIVE

OPT 880 - CLINICAL PHOTOGRAPHY FOR DENTAL PRACTITIONERS

OR 515 - MATHEMATICAL PROGRAMMING AND EXTENSIONS

OR 524 - PROBABILITY

OR 525 - INTRODUCTORY STATISTICAL INFERENCE

OR 563 - SIMULATION OF MINE PRODUCTION SYSTEMS

OR 616 - NUMERICAL TECHNIQUES FOR NONLINEAR OPTIMIZATION

OR 617 - MARKOVIAN DECISION PROBLEMS

OR 618 - COMBINATORICS AND NETWORKS

OR 619 - PROBLEMS SEMINAR IN OPERATIONS RESEARCH

OR 624 - APPLIED STOCHASTIC PROCESSES

OR 674 - HEURISTICS ALGORITHMS

ORT 610 - CRANIO-FACIAL FORM

ORT 620 - ORAL-PHARYNGEAL FUNCTION, PART I

ORT 660 - ORTHODONTIC DIAGNOSIS

ORT 661 - ORTHODONTIC SEMINAR-CLINIC

ORT 662 - ORTHODONTIC TECHNIQUE

ORT 664 - BIOMECHANICS

ORT 710 - MANAGEMENT OF COMPLEX OROFACIAL DEFORMITIES

ORT 748 - MASTER'S THESIS RESEARCH

ORT 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

ORT 770 - ORTHODONTIC SEMINAR

ORT 790 - RESEARCH IN ORTHODONTICS

ORT 822 - ORTHODONTICS I

ORT 841 - CLINICAL ORTHODONTICS

ORT 850 - ORTHODONTIC ELECTIVE

OSG 651 - ANATOMICAL RELATIONSHIPS IN SURGERY

OSG 820 - ORAL SURGERY I

OSG 830 - ORAL SURGERY II

OSG 831 - ORAL SURGERY ROTATION I

OSG 841 - ORAL SURGERY ROTATION II

OSG 850 - ORAL SURGERY ELECTIVE

OTH 849 - ELECTIVE: EXTRAMURAL ROTATION IN ORTHOPAEDIC SURGERY

OTH 856 - ELECTIVE: PRIMARY CARE ORTHOPAEDICS

OTH 931 - ACTING INTERNSHIP: ORTHOPAEDIC SURGERY IN BOWLING GREEN

OTO 849 - ELECTIVE: EXTRAMURAL ROTATION IN OTOLARYNGOLOGY

OTO 853 - ACTING INTERNSHIP: OTOLARYNGOLOGY

OTO 931 - ACTING INTERNSHIP: OTOLARYNGOLOGY IN BOWLING GREEN

PA 602 - STRATEGIC PLANNING AND ORGANIZATIONAL CHANGE IN THE PUBLIC AND NON- PROFIT SECTORS

PA 621 - QUANITITATIVE METHODS OF RESEARCH

PA 622 - PUBLIC PROGRAM EVALUATION

PA 623 - DECISION ANALYSIS AND SUPPORT SYSTEMS

PA 624 - GOVERNMENT INFORMATION SYSTEMS

PA 625 - GOVERNMENTAL ACCOUNTING AND FINANCIAL CONDITION ANALYSIS

PA 626 - APPLICATIONS IN GOVERNMENTAL ACCOUNTING AND AUDIT

PA 627 - GOVERNMENTAL AUDIT

PA 631 - PUBLIC FINANCIAL MANAGEMENT

PA 632 - PUBLIC FUNDS MANAGEMENT

PA 633 - MUNICIPAL SECURITIES

PA 636 - HEALTH ECONOMICS

PA 642 - PUBLIC AND NONPROFIT ORGANIZATION THEORY AND BEHAVIOR

PA 651 - THE POLICY PROCESS

PA 652 - PUBLIC POLICY ECONOMICS

PA 653 - LOCAL ECONOMIC DEVELOPMENT

PA 660 - NON-PROFIT MANAGEMENT

PA 661 - FINANCIAL MANAGEMENT OF NONPROFIT ORGANIZATION

PA 662 - NON-PROFIT MANAGEMENT

PA 665 - PUBLIC POLICY AND POLITICAL ECONOMY IN AN INTERNATIONAL CONTEXT

PA 667 - POLICYMAKING IN AN INTERNATIONAL CONTEXT: POLITICAL AND ORGANIZATIONAL DIMENSIONS

PA 675 - EDUCATION: ECONOMICS AND POLICY

PA 680 - BENEFIT-COST ANALYSIS

PA 681 - CAPSTONE IN PUBLIC ADMINISTRATION

PA 683 - TAX POLICY

PA 684 - ENVIRONMENTAL POLICY

PA 690 - PUBLIC POLICY ANALYSIS OVERVIEW

PA 691 - ETHICS AND PUBLIC POLICY

PA 692 - ECONOMETRICS FOR POLICY ANALYSTS

PA 694 - PUBLIC PENSIONS AND INSURANCE

PA 695 - DATA AND REVENUE FORECASTING

PA 696 - LEGAL ISSUES IN PUBLIC FINANCIAL MANAGEMENT

PA 697 - PUBLIC FINANCIAL POLICY ANALYSIS

PA 711 - INTERNSHIP IN PUBLIC ADMINISTRATION

PA 727 - ENVIRONMENTAL ECONOMICS, REGULATION AND POLICY

PA 731 - FISCAL AND BUDGETARY POLICY

PA 742 - THEORY OF PUBLIC ORGANIZATIONS

PA 750 - INTRODUCTION TO ECONOMICS FOR PUBLIC POLICY

PA 751 - PUBLIC POLICY FORMULATION AND IMPLEMENTATION

PA 752 - THE ECONOMICS OF POLICY ANALYSIS

PA 754 - ADVANCED TOPICS IN PUBLIC FINANCE

PA 767 - DISSERTATION RESIDENCY CREDIT

PA 792 - CAUSAL MODELING IN PUBLIC POLICY RESEARCH

PA 795 - SPECIAL TOPICS IN PUBLIC ADMINISTRATION

PA 796 - INDEPENDENT STUDY IN PUBLIC ADMINISTRATION

PADU 9999 - PADUCAH ENGINEERING

PAS 500 - INTEGRATIVE CARE FOR HEALTH SCIENCES

PAS 610 - RESEARCH METHODS AND EPIDEMIOLOGY IN PA STUDIES

PAS 620 - HEALTH CARE DELIVERY IN THE 21ST CENTURY

PAS 640 - SURVEY OF GERIATRIC MEDICINE

PAS 645 - MASTER'S PROJECT

PAS 646 - MASTER'S PROJECT 2

PAS 650 - CLINICAL METHODS

PAS 651 - INTRODUCTION TO THE PA PROFESSION

PAS 653 - INTRODUCTION TO HEALTH AND DISEASE

PAS 654 - CLINICAL LECTURE SERIES I

PAS 655 - PSYCHOSOCIAL FACTORS IN PRIMARY HEALTH CARE

PAS 656 - PATIENT EVALUATION AND MANAGEMENT

PAS 657 - CLINICAL LABORATORY PROCEDURES

PAS 658 - CLINICAL LECTURE SERIES II

PAS 660 - FAMILY MEDICINE CLERKSHIP

PAS 661 - PEDIATRIC CLERKSHIP

PAS 662 - OBSTETRICS AND GYNECOLOGY CLERKSHIP

PAS 663 - SURGERY CLERKSHIP

PAS 664 - GERIATRIC CLERKSHIP

PAS 665 - CLINICAL PRACTICUM IN PHYSICIAN ASSISTANT STUDIES

PAS 669 - INTERNAL MEDICINE CLERKSHIP

PAS 670 - EMERGENCY MEDICINE CLERKSHIP

PAS 671 - PSYCHIATRY CLERKSHIP

PAS 672 - PHARMACOLOGY I

PAS 673 - PHARMACOLOGY II

PAS 678 - HEALTH PROMOTION AND DISEASE PREVENTION

PAS 680 - SEMINAR IN PHYSICIAN ASSISTANT STUDIES II

PAS 690 - PA CLERKSHIP

PAT 598 - CLINICAL MICROBIOLOGY

PAT 665 - THE FORENSIC APPLICATION OF DNA TYPING METHODS

PAT 815 - FIRST YEAR ELECTIVE PATHOLOGY

PAT 823 - MECHANISMS OF DISEASE AND TREATMENT/PATHOLOGY

PAT 825 - SECOND-YEAR ELECTIVE PATHOLOGY

PAT 849 - ELECTIVE: EXTRAMURAL ROTATION IN PATHOLOGY

PAT 850 - ELECTIVE: AUTOPSY PATHOLOGY

PAT 851 - ELECTIVE: SURGICAL PATHOLOGY

PAT 856 - ELECTIVE: FORENSIC PATHOLOGY

PAT 901 - SURGICAL PATHOLOGY AT MOREHEAD

PATM 823 - MECHANISMS OF DISEASE AND TREATMENT/PATHOLOGY

PATM 825 - SECOND YEAR ELECTIVE PATHOLOGY

PD 099 - POSTDOCTORAL RESIDENCE

PD1 521 - PEDIATRICS @ UNDNJ SCH OF MED

PD1 523 - PEDIATRICS @ NJ MEDICAL SCH

PD1 540 - PEDIATRICS @ UNIV OF NEW MX

PD1 572 - PEDIATRICS @ COLUMBIA UNIV, NY

PD1 584 - PEDIATRICS @ UNIV OF N CAR

PD1 601 - PEDIATRICS @ UNIV OF CIN

PD1 603 - PEDIATRICS @ UNIV HOSP OF CLEVELAND

PD1 605 - PEDIATRICS @ WRIGHT ST

PD1 608 - PEDIATRICS @ CASE WESTERN RESERVE

PD1 641 - PEDIATRICS @ OREGON HLTH SCI CTR

PD1 680 - PEDIATRICS @ MED UNIV S CAR

PD1 703 - PEDIATRICS @ VANDERBILT UNIV

PD1 723 - PEDIATRICS @ UT SOUTHWESTERN

PD1 726 - PEDIATRICS @ UNIV TX HOUSTON

PD1 735 - PEDIATRICS @ BAPTIST HOSP NASHVILLE

PD1 739 - PEDIATRICS @ LACKLAND AFB

PD1 740 - PEDIATRICS @ UNIV OF UTAH COL MED

PD1 783 - PEDIATRICS @ NAVY REG'L MC, PORTHMOUTH

PD1 880 - PEDIATRICS @ LONDON ENGLAND

PD1 891 - PEDIATRICS @ INTERNAT'L HLTH EQUADOR

PD1 897 - PEDIATRICS @ COSTA RICA

PD1 904 - PEDIATRICS @ ROYAL CHILDRENS HOSP AS

PD1 907 - PEDIATRICS @ KING'S COL LONDON ENGLAND

PD3 601 - PED INFECTIOUS DISEASE @ UNIV OF CIN

PD5 601 - PED/GAST @ UNIV OF CIN

PD8 641 - PED CARIOLOGY @ OREGON HLTH SCI UNIV

PD9 601 - PED NEWBORN @ UNIV OF CIN

PDO 610 - PEDIATRIC DENTISTRY SEMINAR I

PDO 620 - PEDIATRIC DENTISTRY SEMINAR II

PDO 630 - PEDIATRIC DENTISTRY SEMINAR III

PDO 640 - PEDIATRIC DENTISTRY SEMINAR IV

PDO 822 - PEDIATRIC DENTISTRY I

PDO 831 - CLINICAL PEDIATRIC DENTISTRY I

PDO 834 - PEDIATRIC DENTISTRY II

PDO 841 - CLINICAL PEDIATRIC DENTISTRY II

PDO 850 - PEDIATRIC DENTISTRY ELECTIVE

PE1 584 - MEDICAL GENETICS @ UNIV OF N CAR

PE1 780 - GENETICS/PEDIATRICS @ UNIV OF VA

PE2 601 - PED PM&R @ UNIV OF CIN

PE3 712 - PEDIATRIC HEM/ONC @ ST JUDE'S HOSP, MEMP

PE3 723 - PEDIATRIC HEMA/ON @ UNIV TX SOUTHWESTERN

PED 815 - FIRST-YEAR ELECTIVE, PEDIATRICS

PED 825 - SECOND-YEAR ELECTIVE, PEDIATRICS

PED 849 - ELECTIVE: EXTRAMURAL ROTATION IN PEDIATRICS

PED 850 - ACTING INTERNSHIP: NEONATAL INTENSIVE CARE

PED 852 - ELECTIVE: PEDIATRIC NEPHROLOGY

PED 853 - ELECTIVE: PEDIATRIC INFECTIOUS DISEASE

PED 854 - ELECTIVE: PEDIATRIC GASTRO & NUTRITION

PED 858 - ACTING INTERNSHIP IN PEDIATRICS-SJH

PED 859 - ACTING INTERNSHIP: PEDIATRICS

PED 865 - SLEEP MEDICINE

PED 867 - ELECTIVE IN HEARING, SPEECH AND LANGUAGE

PED 869 - ELECTIVE: PEDIATRIC ALLERGY & IMMUNOLOGY

PED 870 - ELECTIVE: PEDIATRIC CARDIOLOGY

PED 871 - ELECTIVE: PEDIATRIC ENDOCRINOLOGY

PED 872 - ACTING INTERNSHIP: MEDICINE/PEDIATRICS

PED 874 - CLINICAL CLERKSHIP IN PEDIATRICS

PED 876 - ELECTIVE: PEDIATRIC GENETICS

PED 877 - PEDIATRIC DEVELOPMENTAL DISABILITIES

PED 878 - ACTING INTERNSHIP: PEDIATRIC INTENSIVE CARE

PED 879 - ELECTIVE: ADOLESCENT MEDICINE

PED 885 - ELECTIVE: PEDIATRIC PULMONOLOGY

PED 888 - ELECTIVE: PEDIATRIC HEMATOLOGY/ONCOLOGY

PED 890 - ELECTIVE: COMMUNITY PEDIATRICS OFF-SITE

PED 899 - ELECTIVE: LEGISLATIVE ADVOCACY

PED 901 - PEDIATRICS AT MOREHEAD

PED 999 - EXTRAMURAL IN PEDIATRICS

PER 661 - MODERN CONCEPTS IN PERIODONTICS

PER 662 - MEDICAL EMERGENCIES

PER 748 - MASTER'S THESIS RESEARCH

PER 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

PER 770 - TREATMENT PLANNING SEMINAR

PER 772 - PERIODONTAL BIOLOGY AND PATHOLOGY

PER 774 - PERIODONTICS SURGICAL SEMINAR

PER 776 - PERIODONTAL THERAPY SEMINAR

PER 790 - RESEARCH IN PERIODONTICS

PER 810 - BIOLOGIC AND CLINIC FOUNDATIONS OF PERIODONTOLOGY

PER 820 - NON-SURGICAL PERIODONTAL TREATMENT TRAINING

PER 821 - CLINICAL PERIODONTICS II

PER 830 - PERIODONTICS III

PER 831 - CLINICAL PERIODONTICS III

PER 841 - CLINICAL PERIODONTICS IV

PGY 401G - HUMAN REPRODUCTION, TECHNOLOGY, AND SOCIETY

PGY 412G - PRINCIPLES OF HUMAN PHYSIOLOGY

PGY 413G - CRITICAL THINKING IN PRINCIPLES OF HUMAN PHYSIOLOGY

PGY 502 - SYSTEMS, CELLULAR AND MOLECULAR PHYSIOLOGY

PGY 504 - INDEPENDENT WORK IN PHYSIOLOGY

PGY 512 - EVOLUTIONARY MEDICINE

PGY 520 - MECHANISMS OF DISEASE

PGY 522 - QUANTITATIVE PHYSIOLOGY

PGY 535 - COMPARATIVE NEUROBIOLOGY AND BEHAVIOR

PGY 549 - COMPARATIVE ENDOCRINOLOGY

PGY 560 - PATHOPHYSIOLOGY: INTEGRATIVE STUDY IN PHYSIOLOGY AND MEDICINE

PGY 590 - CELLULAR AND MOLECULAR PHYSIOLOGY

PGY 601 - MAMMALIAN ENDOCRINOLOGY

PGY 602 - READINGS IN SYSTEMS, CELLULAR AND MOLECULAR PHYSIOLOGY

PGY 603 - THE FOUNDATION OF EXPERIMENTAL DESIGN AND ANALYSIS

PGY 604 - ADVANCED CARDIOVASCULAR PHYSIOLOGY

PGY 605 - NEUROBIOLOGY OF CNS INJURY AND REPAIR

PGY 606 - ADVANCED NEUROPHYSIOLOGY

PGY 607 - HORMONAL CONTROL MECHANISMS (SUBTITLE REQUIRED)

PGY 608 - ADVANCED RENAL PHYSIOLOGY

PGY 609 - ADVANCED RESPIRATORY PHYSIOLOGY

PGY 612 - BIOLOGY OF AGING

PGY 613 - BEHAVIORAL ECOLOGY AND COMPARATIVE NEUROBIOLOGY

**PGY 614 - TECHNIQUES IN BEHAVIORAL ECOLOGY AND COMPARATIVE
NEUROBIOLOGY**

**PGY 615 - SEMINAR IN TEACHING MEDICAL SCIENCE (MED SCIENCE TEACHING
I)**

**PGY 616 - PRACTICUM IN TEACHING MEDICAL SCIENCE (MED SCIENCE
TEACHING II)**

PGY 617 - PHYSIOLOGICAL GENOMICS

PGY 618 - MOLECULAR NEUROBIOLOGY

PGY 625 - MUSCLE FORUM

PGY 627 - PROSEMINAR IN PHYSIOLOGICAL PSYCHOLOGY

PGY 630 - ADVANCED TOPICS IN PHYSIOLOGY

PGY 638 - DEVELOPMENTAL NEUROBIOLOGY

PGY 650 - ANIMAL PHYSIOLOGY LABORATORY

PGY 660 - BIOLOGY OF REPRODUCTION

PGY 710 - AGING OF THE NERVOUS SYSTEM

PGY 748 - MASTER'S THESIS RESEARCH

PGY 749 - DISSERTATION RESEARCH

PGY 766 - TOPICAL SEMINAR BEHAVIORAL NEUROSCIENCE

PGY 767 - DISSERTATION RESIDENCY CREDIT

PGY 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

PGY 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

PGY 771 - PROSEMINAR IN CELL PHYSIOLOGY

PGY 774 - GRADUATE SEMINAR IN PHYSIOLOGY

PGY 791 - RESEARCH IN PHYSIOLOGY

PGY 813 - NEUROPHYSIOLOGY

PGY 814 - PRINCIPLES OF HUMAN PHYSIOLOGY FOR DENTAL STUDENTS

PGY 815 - FIRST-YEAR ELECTIVE, PHYSIOLOGY

PGY 818 - HUMAN FUNCTION

PGY 825 - SECOND-YEAR ELECTIVE, PHYSIOLOGY

PGY 850 - ELECTIVE: RESEARCH IN PHYSIOLOGY

PGYD 412G - PRINCIPLES OF HUMAN PHYSIOLOGY LECTURES

PGYM 815 - FIRST-YEAR ELECTIVE, PHYSIOLOGY AND BIOPHYSICS

PHA 421G - PHARMACOLOGY: PRINCIPLES OF DRUG ACTION

PHA 422G - PHARMACOLOGY OF TREATING HUMAN DISEASE

PHA 423G - EXPLORING THE DARK SIDE OF MEDICINE

PHA 424G - PHARMACOLOGY OF HUMAN ENDOCRINOLOGY AND REPRODUCTION

PHA 425G - NEUROPHARMACOLOGY: TREATING DISORDERS OF THE BRAIN

PHA 550 - DRUG AND NUTRIENT INTERACTIONS

PHA 605 - PRINCIPLES OF NEUROBIOLOGY

PHA 612 - QUANTITATIVE PHARMACODYNAMICS: PHARMACOKINETICS

PHA 616 - BIOLOGY AND THERAPY OF CANCER

PHA 617 - PHYSIOLOGICAL GENOMICS

PHA 621 - PRINCIPLES OF DRUG ACTION

PHA 622 - MOLECULAR DRUG TARGETS & THERAPEUTICS

PHA 623 - PROFESSIONAL DEVELOPMENT FOR SCIENTISTS IN TRAINING

PHA 630 - SPECIAL TOPICS IN PHARMACOLOGY

PHA 649 - ADVANCED MOLECULAR PHARMACOLOGY

PHA 658 - ADVANCED NEUROPHARMACOLOGY

PHA 663 - DRUG METABOLISM AND DISPOSITION

PHA 670 - CHEMICAL CARCINOGENESIS

PHA 710 - AGING OF THE NERVOUS SYSTEM

PHA 748 - MASTER'S THESIS RESEARCH

PHA 749 - DISSERTATION RESEARCH

PHA 750 - RESEARCH IN PHARMACOLOGY

PHA 767 - DISSERTATION RESIDENCY CREDIT

PHA 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

PHA 769 - RESIDENCE CREDIT FOR DOCTOR'S DEGREE

PHA 770 - SEMINAR IN PHARMACOLOGY

PHA 779 - MEMBRANE SCIENCES COLLOQUIUM

PHA 815 - FIRST-YEAR ELECTIVE, PHARMACOLOGY

PHA 824 - MECHANISMS OF DISEASE AND TREATMENT/PHARMACOLOGY

PHA 825 - SECOND-YEAR ELECTIVE, PHARMACOLOGY

PHA 840 - CLINICAL DENTAL PHARMACOLOGY

PHA 842 - ADVANCED CLINICAL PHARMACOLOGY AND ANESTHESIOLOGY

PHA 850 - FOURTH YEAR ELECTIVE FOR MEDICAL STUDENTS

PHAM 824 - MECHANISMS OF DISEASE AND TREATMENT/PHARMACOLOGY

PHI 500 - TOPICS IN PHILOSOPHY (SUBTITLE REQUIRED)

PHI 503 - TOPICS IN ANCIENT PHILOSOPHY

PHI 504 - ISLAMIC AND JEWISH PHILOSOPHY AND THE CLASSICAL TRADITION

PHI 506 - TOPICS IN MEDIEVAL PHILOSOPHY

PHI 509 - TOPICS IN THE HISTORY OF MODERN PHILOSOPHY

PHI 513 - NINETEENTH CENTURY PHILOSOPHY

PHI 514 - AMERICAN PHILOSOPHY

PHI 515 - CONTEMPORARY PHILOSOPHY: THE ANALYTIC TURN

PHI 516 - CONTEMPORARY PHILOSOPHY: PHENOMENOLOGICAL DIRECTIONS

PHI 517 - EXISTENTIALISM

PHI 519 - CRITICAL SOCIAL THOUGHT

PHI 520 - SYMBOLIC LOGIC II

PHI 522 - ADVANCED CRITICAL THINKING

PHI 530 - ETHICAL THEORY

PHI 531 - ADVANCED TOPICS IN ETHICS (SUBTITLE REQUIRED)

PHI 532 - ADVANCED ENVIRONMENTAL ETHICS

PHI 535 - SOCIAL AND POLITICAL PHILOSOPHY

PHI 537 - PHILOSOPHY OF LAW

PHI 540 - FEMINIST PHILOSOPHY

PHI 545 - PHILOSOPHY OF RELIGION

PHI 550 - PHILOSOPHICAL PROBLEMS IN KNOWLEDGE AND REALITY

PHI 560 - PHILOSOPHY OF SCIENTIFIC METHOD

PHI 561 - PHILOSOPHICAL PROBLEMS IN THE NATURAL SCIENCES (SUBTITLE REQUIRED)

PHI 565 - PHILOSOPHY OF LANGUAGE

PHI 566 - BAD LANGUAGE: PROPAGANDA, LIES, AND BULLSHIT

PHI 570 - PHILOSOPHY OF HISTORY

PHI 575 - PHILOSOPHY OF MIND

PHI 592 - AESTHETICS

PHI 605 - HEALTH CARE ETHICS

PHI 630 - SEMINAR IN VALUE THEORY

PHI 650 - SEMINAR IN METAPHYSICS AND EPISTEMOLOGY (SUBTITLE REQUIRED)

PHI 680 - SPECIAL TOPICS IN PHILOSOPHY: (SUBTITLE REQUIRED)

PHI 700 - SEMINAR IN ANCIENT PHILOSOPHY: (SUBTITLE REQUIRED)

PHI 705 - SEMINAR IN MEDIEVAL PHILOSOPHY

PHI 710 - SEMINAR IN MODERN PHILOSOPHY: (SUBTITLE REQUIRED)

PHI 715 - SEMINAR IN RECENT PHILOSOPHY: (SUBTITLE REQUIRED)

PHI 740 - PROSEMINAR ON TEACHING METHODS

PHI 741 - PROSEMINAR IN METAPHYSICS AND EPISTEMOLOGY

PHI 742 - PROSEMINAR IN VALUE THEORY

PHI 749 - DISSERTATION RESEARCH

PHI 755 - TUTORIAL IN INTERDISCIPLINARY ISSUES

PHI 767 - DISSERTATION RESIDENCY CREDIT

PHI 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

PHI 769 - RESIDENCE CREDIT FOR DOCTOR'S DEGREE

PHI 790 - RESEARCH IN PHILOSOPHY

PHR 595 - INDEPENDENT PROBLEMS IN PHARMACY ADMINISTRATION

PHR 664 - THEORY AND PRACTICE OF DRUG METABOLISM

PHR 668 - PSYCHOTHERAPEUTICS FOR ADVANCED NURSING PRACTICE

PHR 774 - GRADUATE SEMINAR IN PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS

PHR 776 - SEMINAR IN PHARMACEUTICAL SCIENCES I

PHR 779 - MEMBRANE SCIENCES COLLOQUIUM

PHR 804 - PHARMACEUTICS I: ANALYSIS AND PHYSICAL PHARMACY

PHR 805 - PHARMACEUTICS II: DRUG DELIVERY SYSTEMS

PHR 806 - PHARMACEUTICS III: BIOPHARMACEUTICS AND PHARMACOKINETICS

PHR 812 - COMMUNICATION SKILLS FOR PHARMACISTS

PHR 828 - NUCLEAR PHARMACY EXTERNSHIP (4, 8, 12, or 16)

PHR 831 - PHARMACY MANAGEMENT AND HEALTH CARE SYSTEMS

PHR 835 - PHARMACEUTICAL LAW

PHR 850 - PHARMACOTHERAPEUTICS: IMMUNE SYSTEMS

PHR 851 - PHARMACOTHERAPEUTICS: NERVOUS SYSTEMS

PHR 852 - PHARMACOTHERAPEUTICS: CARDIOPULMONARY AND RENAL SYSTEMS

PHR 853 - PHARMACOTHERAPEUTICS: ENDOCRINE SYSTEMS

PHR 854 - PHARMACOTHERAPEUTICS: NUTRITIONAL AND DERMATOLOGIC SYSTEMS

PHR 856 - CHEMOTHERAPEUTICS

PHR 872 - NON-PRESCRIPTION PHARMACEUTICALS AND SUPPLIES

PHR 890 - CLINICAL PHARMACY SEMINAR

PHR 910 - PATIENT-CENTERED CARE EXPERIENCE 1

PHR 911 - CELLS AND MOLECULES

PHR 912 - FOUNDATIONS IN PHARMACEUTICAL SCIENCES I

PHR 913 - WELLNESS & HEALTH PROMOTION I

PHR 914 - CLINICAL REASONING

PHR 915 - PHARMACY AS A PROFESSION

PHR 920 - PATIENT-CENTERED CARE EXPERIENCE 2

PHR 921 - KINETICS AND DYNAMICS

PHR 922 - FOUNDATIONS IN PHARMACEUTICAL SCIENCE II: PHARMACEUTICS AND BIOPHARMACEUTICS

PHR 923 - WELLNESS AND HEALTH PROMOTION II

PHR 926 - INTEGRATED DRUGS AND DISEASE 1: INFECTIOUS DISEASES

PHR 927 - INTEGRATED DRUGS AND DISEASE 1: GI AND NUTRITION

PHR 928 - INTRODUCTORY PHARMACY PRACTICE EXPERIENCE I (SUMMER COMMUNITY PACE)

PHR 929 - INTRODUCTORY PHARMACY PRACTICE EXPERIENCE II (SUMMER INSTITUTIONAL PACE)

PHR 930 - PATIENT-CENTERED CARE EXPERIENCE 3

PHR 933 - PHARMACEUTICAL OUTCOMES, POLICY AND PUBLIC HEALTH

PHR 936 - INTEGRATED DRUGS AND DISEASES 2: NEUROLOGY

PHR 937 - INTEGRATED DRUGS AND DISEASE 2: RHEUMATOLOGY

PHR 938 - INTEGRATED DRUGS AND DISEASE 2: ENDOCRINE DISEASES

PHR 940 - PATIENT-CENTERED CARE EXPERIENCE 4

PHR 945 - LEADERSHIP IN PHARMACY

PHR 946 - INTEGRATED DRUGS AND DISEASE 3: CARDIOLOGY

PHR 947 - INTEGRATED DRUGS AND DISEASE 3: GENITOURINARY

PHR 948 - INTEGRATED DRUGS AND DISEASE 3: PULMONARY

PHR 950 - PATIENT-CENTERED CARE EXPERIENCE 5

PHR 951 - SCHOLARSHIP I

PHR 954 - DIFFERENTIAL DIAGNOSIS IN PRIMARY CARE

PHR 956 - INTEGRATED DRUGS AND DISEASES 4: PSYCHIATRY

PHR 957 - INTEGRATED DRUGS AND DISEASES 4: ONCOLOGY

PHR 960 - PATIENT-CENTERED CARE EXPERIENCE 6

PHR 961 - SCHOLARSHIP II

PHR 964 - PHARMACY OPERATIONS AND FINANCIAL MANAGEMENT

PHR 965 - EVIDENCE-BASED SCIENCE AND PRACTICE

PHR 966 - INTEGRATED DRUGS AND DISEASES 5: CRITICAL CARE

**PHR 967 - INTEGRATED DRUGS AND DISEASES 5: PHARMACOTHERAPY
APPLICATIONS IN SPECIAL POPULATIONS**

**PHR 997 - ADVANCED CLINICAL PHARMACOKINETICS AND
PHARMACODYNAMICS**

PHS 510 - MODERN METHODS IN PHARMACEUTICAL ANALYSIS

**PHS 522 - FUNDAMENTALS OF PHARMACEUTICAL SCIENCES AND
DEVELOPMENT**

PHS 530 - RADIOPHARMACEUTICS

PHS 545 - STERILE PARENTERALS AND DEVICES

PHS 556 - PRINCIPLES OF DRUG DESIGN

PHS 573 - DRUG DELIVERY: ADVANCED PHARMACEUTICS

PHS 601 - CELLS AND MOLECULES

PHS 602 - METABOLIC PATHWAYS

PHS 612 - QUANTITATIVE PHARMACODYNAMICS: PHARMACOKINETICS

PHS 630 - PHARMACEUTICAL RATE PROCESSES

PHS 631 - EQUILIBRIUM PHENOMENA IN PHARMACEUTICAL SYSTEMS

PHS 632 - THE PRACTICE OF DRUG METABOLISM

PHS 634 - PHARMACEUTICAL ENGINEERING

PHS 649 - ADVANCED MOLECULAR PHARMACOLOGY

PHS 660 - BIOSYNTHESIS OF NATURAL PRODUCTS

PHS 662 - BIOORGANIC MECHANISMS

PHS 663 - MOLECULAR NEUROBIOLOGY OF ABUSED DRUGS

PHS 701 - TRANSLATIONAL RESEARCH IN PHARMACEUTICAL SCIENCES

PHS 711 - RESPONSIBLE CONDUCT OF RESEARCH

PHS 748 - MASTER'S THESIS RESEARCH

PHS 749 - DISSERTATION RESEARCH

PHS 750 - PHARMACEUTICAL SCIENCES JOURNAL CLUBS

PHS 760 - TOPICS IN PHARMACEUTICAL SCIENCES

PHS 767 - DISSERTATION RESIDENCY CREDIT

PHS 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

PHS 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

PHS 778 - SEMINAR IN PHARMACEUTICAL SCIENCES II

PHS 780 - SPECIAL PROBLEMS IN PHARMACEUTICAL SCIENCES

PHS 790 - RESEARCH IN PHARMACEUTICAL SCIENCES

PHS 911 - PHYSIOLOGICAL BASIS FOR THERAPEUTICS I

PHS 912 - PHYSIOLOGICAL CHEMISTRY AND MOLECULAR BIOLOGY I

**PHS 914 - BASIC PRINCIPLES OF PHARMACEUTICAL SCIENCE:
PHARMACEUTICS AND BIOPHARMACEUTICS I**

PHS 921 - PHYSIOLOGICAL BASIS FOR THERAPEUTICS II

PHS 922 - PHYSIOLOGICAL CHEMISTRY AND MOLECULAR BIOLOGY II

**PHS 924 - BASIC PRINCIPLES OF PHARMACEUTICAL SCIENCE:
PHARMACEUTICS AND BIOPHARMACEUTICS II**

PHS 931 - PHARMACOLOGICAL BASIS FOR THERAPEUTICS: NERVOUS SYSTEM

**PHS 932 - PHARMACOLOGICAL BASIS FOR THERAPEUTICS: IMMUNOLOGY AND
BIOTECHNOLOGY**

**PHS 933 - PHARMACOLOGICAL BASIS FOR THERAPEUTICS: ENDOCRINE
SYSTEMS**

PHS 944 - BASIC PRINCIPLES OF MEDICINAL CHEMISTRY

PHS 947 - APPLIED BIOPHARMACEUTICS AND PHARMACOKINETICS

**PHS 951 - PHARMACOLOGICAL BASIS FOR THERAPEUTICS:
CARDIOPULMONARY AND RENAL SYSTEMS**

**PHS 985 - PHARMACY YESTERDAY, TODAY, AND TOMORROW: COMPARING US
AND GERMAN HEALTH AND INDUSTRIAL SETTINGS**

PHY 401G - SPECIAL TOPICS IN PHYSICS AND ASTRONOMY FOR

PHY 402G - ELECTRONIC INSTRUMENTATION AND MEASUREMENTS

PHY 404G - MECHANICS

PHY 416G - ELECTRICITY AND MAGNETISM

PHY 417G - ELECTRICITY AND MAGNETISM

PHY 460G - HANDS-ON PHYSICS FOR MIDDLE SCHOOL AND HIGH SCHOOL TEACHERS

PHY 472G - INTERACTION OF RADIATION WITH MATTER

PHY 504 - ADVANCED MECHANICS

PHY 506 - METHODS OF THEORETICAL PHYSICS I

PHY 507 - METHODS OF THEORETICAL PHYSICS II

PHY 508 - COMPUTATIONAL PHYSICS

PHY 520 - INTRODUCTION TO QUANTUM MECHANICS

PHY 521 - INTRO TO QUANTUM MECHANICS II

PHY 522 - THERMODYNAMICS AND STATISTICAL PHYSICS

PHY 524 - SOLID STATE PHYSICS

PHY 525 - CONDENSED MATTER PHYSICS

PHY 535 - EXPERIMENTAL PHYSICS: ADVANCED PHYSICS LABORATORY

PHY 545 - RADIATION HAZARDS AND PROTECTION

PHY 546 - GENERAL MEDICAL RADIOLOGICAL PHYSICS

PHY 554 - FUNDAMENTALS OF ATOMIC PHYSICS

PHY 555 - FUNDAMENTAL NUCLEAR PHYSICS

PHY 556 - FUNDAMENTAL PARTICLE PHYSICS

PHY 567 - INTRODUCTION TO LASERS AND MASERS

PHY 570 - SEMINAR ON TEACHING PHYSICS

PHY 571 - SEMINAR ON TEACHING PHYSICS LABORATORIES

PHY 591 - ASTROPHYSICS I - STARS

PHY 592 - ASTROPHYSICS II - GALAXIES AND INTERSTELLAR MATERIAL

PHY 600 - SELECTED TOPICS IN ADVANCED PHYSICS

PHY 605 - GRAVITY

PHY 611 - ELECTROMAGNETIC THEORY I

PHY 613 - ELECTROMAGNETIC THEORY II

PHY 614 - QUANTUM MECHANICS I

PHY 615 - QUANTUM MECHANICS II

PHY 616 - QUANTUM FIELD THEORY I

PHY 624 - CONDENSED MATTER THEORY

PHY 630 - TOPICS IN NUCLEAR AND INTERMEDIATE ENERGY PHYSICS

PHY 632 - STATISTICAL MECHANICS

PHY 639 - PHYSICAL PROCESSES IN ASTROPHYSICS

PHY 651 - ATOMIC PHYSICS

PHY 716 - QUANTUM FIELD THEORY II

PHY 748 - MASTER'S THESIS RESEARCH

PHY 749 - DISSERTATION RESEARCH

PHY 767 - DISSERTATION RESIDENCY CREDIT

PHY 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

PHY 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

PHY 770 - COLLOQUIUM

PHY 781 - INDEPENDENT WORK IN PHYSICS

PHY 790 - RESEARCH IN PHYSICS

PHY 791 - RESEARCH IN PHYSICS

PI1 611 - PSYCHIATRY @ WRIGHT PATTERSON AFB

PI1 641 - PSYCHIATRY @ OREGON HSU

PI1 675 - PSYCHIATRY @ BORWN UNIV RI

PI1 680 - PSYCHIATRY @ MED UNIV S CAR

PI1 724 - PSYCHIATRY @ UNIV TX GALVESTON

PI1 800 - PSYCHIATRY @ UNIV WASH

PI1 880 - PSYCHIATRY @ LONDON, ENGLAND

PI4 680 - PSYCHIATRY @ UNIV OF S CAR

PI4 725 - PSYCHIATRY @ BAYLOR UNIV

PLS 416G - COVER CROPS IN AGROECOSYSTEMS

PLS 468G - SOIL USE AND MANAGEMENT

PLS 470G - SOIL NUTRIENT MANAGEMENT

PLS 502 - ECOLOGY OF ECONOMIC PLANTS

PLS 510 - FORAGE MANAGEMENT AND UTILIZATION

PLS 512 - GRAINS AND OILSEEDS PRODUCTION

PLS 514 - GRASS TAXONOMY AND IDENTIFICATION

PLS 515 - TURF MANAGEMENT

PLS 525 - NURSERY AND FLORICULTURE CROP PRODUCTION

PLS 531 - FIELD SCHOOLS IN CROP PEST MANAGEMENT

PLS 556 - SEED PRODUCTION AND TECHNOLOGY

PLS 557 - SEED VIGOR

PLS 560 - ECOTOXICOLOGY

PLS 564 - FOREST SOILS

PLS 566 - SOIL MICROBIOLOGY

PLS 567 - METHODS IN SOIL MICROBIOLOGY

PLS 573 - SOIL MORPHOLOGY AND CLASSIFICATION

PLS 575 - SOIL PHYSICS

PLS 576 - LABORATORY IN SOIL PHYSICS

PLS 581 - CHEMICAL ANALYSIS OF SOILS AND PLANTS

**PLS 597 - SPECIAL TOPICS IN PLANT AND SOIL SCIENCE (SUBTOPIC
REQUIRED)**

PLS 599 - SPECIAL PROBLEMS IN PLANT AND SOILS SCIENCE

PLS 601 - SPECIAL TOPICS IN MOLECULAR AND CELLULAR GENETICS

PLS 602 - PRINCIPLES OF YIELD PHYSIOLOGY

PLS 609 - PLANT BIOCHEMISTRY

PLS 615 - ADVANCED PLANT GENETICS AND GENOMICS

PLS 620 - PLANT MOLECULAR BIOLOGY

PLS 622 - PHYSIOLOGY OF PLANTS I

PLS 623 - PHYSIOLOGY OF PLANTS II

PLS 630 - AGRI-ENVIRONMENTAL EXPERIMENTAL DESIGN AND ANALYSIS

PLS 640 - IDENTIFICATION OF PLANT DISEASES

PLS 642 - BIOSYNTHESIS OF NATURAL PRODUCTS

PLS 650 - SOIL-PLANT RELATIONSHIPS

PLS 655 - SPATIAL AND TEMPORAL STATISTICS

PLS 657 - SEED BIOLOGY

PLS 658 - ADVANCED WEED SCIENCE

PLS 660 - ADVANCED SOIL BIOLOGY

PLS 664 - PLANT BREEDING I

PLS 671 - SOIL CHEMISTRY

PLS 675 - ECOSYSTEM NUTRIENT CYCLES

PLS 676 - QUANTITATIVE INHERITANCE IN PLANT POPULATIONS

PLS 697 - SPECIAL TOPICS IN PLANT AND SOIL SCIENCE (SUBTITLE REQUIRED)

PLS 712 - ADVANCED SOIL FERTILITY

PLS 721 - PEDOGENIC PROCESSES

PLS 741 - CLAY MINERALOGY

PLS 748 - MASTER'S THESIS RESEARCH

PLS 749 - DISSERTATION RESEARCH

PLS 767 - DISSERTATION RESIDENCY CREDIT

PLS 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

PLS 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

PLS 772 - PLANT AND SOIL SCIENCE SEMINAR

PLS 799 - RESEARCH IN PLANT AND SOIL SCIENCE

PM 602 - OCCUPATIONAL AND ENVIRONMENTAL HEALTH

PM 621 - TOPICS IN ADVANCED EPIDEMIOLOGY

PM 661 - OCCUPATIONAL AND ENVIRONMENTAL SAMPLING

PM 670 - CLINICAL EPIDEMIOLOGY

PM 676 - WOMEN'S HEALTH: A PUBLIC HEALTH PERSPECTIVE

PM 768 - RESIDENCY CREDIT FOR MASTER'S DEGREE

PM 770 - SEMINAR IN PREVENTIVE MEDICINE AND PUBLIC HEALTH

PM 780 - SPECIAL PROBLEMS IN PREVENTIVE MEDICINE AND PUBLIC HEALTH

PM 790 - CHRONIC DISEASE EPIDEMIOLOGY

PM 815 - FIRST-YEAR ELECTIVE, PREVENTIVE MEDICINE AND ENVIRONMENTAL HEALTH

PM 825 - SECOND-YEAR ELECTIVE, PREVENTIVE MEDICINE AND ENVIRONMENTAL HEALTH

PM 841 - PREVENTIVE MEDICINE CLERKSHIP SELECTIVE

PM 850 - PREVENTIVE MEDICINE OFF-SITE ELECTIVE

PM 851 - CLINICAL CLERKSHIP IN PREVENTIVE MEDICINE AND ENVIRONMENTAL HEALTH

PM 852 - RESEARCH IN PREVENTIVE MEDICINE AND ENVIRONMENTAL HEALTH

PM 876 - TRIPLE BOARD ACTING INTERNSHIP

PPA 400G - PRINCIPLES OF PLANT PATHOLOGY

PPA 500 - PHYSIOLOGY OF PLANT HEALTH AND DISEASE

PPA 600 - CRITICAL METHODS IN PLANT-MICROBE INTERACTIONS

PPA 601 - SPECIAL TOPICS IN MOLECULAR AND CELLULAR GENETICS

PPA 609 - PLANT BIOCHEMISTRY

PPA 620 - FUNGICIDES, ADVANCED CONCEPTS

PPA 630 - INTRODUCTION TO GENETICALLY ENGINEERED CROPS, RISKS AND BENEFITS I

PPA 631 - INTRODUCTION TO GENETICALLY ENGINEERED CROPS, RISKS AND BENEFITS II

PPA 640 - IDENTIFICATION OF PLANT DISEASES

PPA 641 - PLANT DISEASE, POPULATION BIOLOGY, AND BIOTECHNOLOGY

PPA 650 - FUNGAL BIOLOGY

PPA 670 - PLANT BACTERIOLOGY

PPA 671 - ADVANCED PLANT VIROLOGY

PPA 673 - ADVANCED PLANT DISEASE RESISTANCE

PPA 700 - PLANT PATHOLOGY LABORATORY VISITS

PPA 748 - MASTER'S THESIS RESEARCH

PPA 749 - DISSERTATION RESEARCH

PPA 767 - DISSERTATION RESIDENCY CREDIT

PPA 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

PPA 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE May be repeated indefinitely.

PPA 770 - PLANT PATHOLOGY SEMINAR

PPA 784 - SPECIAL PROBLEMS IN PLANT PATHOLOGY

PPA 794 - RESEARCH IN PLANT PATHOLOGY

PPA 799 - TEACHING IN PLANT PATHOLOGY

PPL 575 - EDUCATION FINANCE AND POLICY

PPL 583 - TAX POLICY

PPL 584 - ENVIRONMENTAL POLICY

PPS 564 - INTRODUCTION TO FDA AND THE DRUG DEVELOPMENT PROCESS

PPS 620 - SUBSTANCE USE DISORDERS: HEALTH IMPLICATIONS, POLICIES AND PREVENTION STRATEGIES

PPS 665 - ETHICAL ISSUES IN CLINICAL RESEARCH

PPS 700 - INTRODUCTION TO PHARMACEUTICAL OUTCOMES & POLICY

PPS 701 - PHARMACOEPIDEMIOLOGY

PPS 702 - PHARMACEUTICAL HEALTH POLICY

PPS 704 - PHARMACY INFORMATICS

PPS 705 - PHARMACOECONOMICS & DECISION ANALYSIS

PPS 706 - INTERMEDIATE PHARMACOECONOMICS & DECISION ANALYSIS

PPS 710 - TECHNIQUES IN SECONDARY DATA RESEARCH

PPS 750 - POP JOURNAL CLUB

PPS 760 - SPECIAL TOPICS IN PHARMACY PRACTICE & SCIENCE

PPS 764 - DRUG DEVELOPMENT REGULATION AND CLINICAL RESEARCH

PPS 767 - DISSERTATION RESIDENCY CREDIT

PPS 778 - SEMINARS IN PHARMACY PRACTICE & SCIENCE

PPS 790 - RESEARCH IN PHARMACY PRACTICE & SCIENCE - PRE QUAL

PPS 813 - GERIATRIC PHARMACY

PPS 832 - ADVANCED COMMUNITY PRACTICE MANAGEMENT

PPS 895 - INDEPENDENT PROBLEMS IN CLINICAL PHARMACY

PPS 896 - INDEPENDENT PROBLEMS IN PHARMACY

PPS 910 - INTRODUCTION TO PHARMACY PRACTICE

PPS 913 - PHARMACOLOGICAL BASIS OF THERAPEUTICS: ANTIBIOTICS

PPS 916 - NONPRESCRIPTION PHARMACEUTICALS AND SUPPLIES I

PPS 919 - PATIENT CARE LABORATORY I

PPS 920 - COMMUNICATION AND BEHAVIOR IN PHARMACY PRACTICE

**PPS 923 - PHARMACOLOGICAL BASIS FOR THERAPEUTICS: NUTRITION,
HEALTH PROMOTIONS**

PPS 926 - NONPRESCRIPTION PHARMACEUTICALS AND SUPPLIES II

PPS 928 - INTRODUCTORY PHARMACY PRACTICE EXPERIENCE I

PPS 929 - PATIENT CARE LAB II

PPS 930 - LEGAL, ETHICAL, AND ACCESS ISSUES IN PHARMACY

PPS 939 - PATIENT CARE LAB III

PPS 940 - EVIDENCE BASE FOR PHARMACY PRACTICE

PPS 946 - ADVANCED PHARMACOTHERAPY I

PPS 948 - INTRODUCTORY PHARMACY PRACTICE EXPERIENCE II

PPS 949 - PATIENT CARE LAB IV

PPS 950 - PHARMACEUTICAL POLICY AND PUBLIC HEALTH

PPS 953 - CURRENT TOPICS IN PHARMACY SEMINAR

PPS 957 - ADVANCED PHARMACOTHERAPY II

PPS 959 - PATIENT CARE LAB V

PPS 960 - PHARMACY PRACTICE MANAGEMENT

PPS 966 - ADVANCED PHARMACOTHERAPY III

PPS 967 - ADVANCED PHARMACOTHERAPY IV

PPS 969 - PATIENT CARE LABORATORY VI

PPS 970 - INTRODUCTION TO TRANSPLANT PHARMACY PRACTICE

PPS 971 - PHARMACY PRACTICE AND HEALTHCARE IN JAPAN

PPS 972 - INTRODUCTION TO RESIDENCY TRAINING

PPS 973 - INTRO TO CRITICAL CARE PHARMACY

PPS 974 - CLINICAL ASPECTS OF PRESCRIPTION MEDICATIONS

PPS 975 - EMERGENCY MEDICINE

PPS 977 - HERBS AND DIETARY SUPPLEMENTS

PPS 978 - PEDIATRIC PHARMACOTHERAPY

PPS 979 - TOXICOLOGY IN CLINICAL PRACTICE

PPS 980 - BEHAVIOR MODIFICATION COACHING

PPS 981 - THINKING CREATIVELY FOR INNOVATION

PPS 982 - PHARMACY WITHOUT BORDERS: A US-CHINA GLOBAL CLASSROOM

PPS 983 - INTERPROFESSIONAL TEAMWORK IN GLOBAL HEALTH

PPS 984 - HEALTHCARE YESTERDAY, TODAY & TOMORROW: A COMPARISON OF AMERICAN AND UNITED KINGDOM HEALTH SYSTEMS

PPS 986 - INTRODUCTION TO ACADEMIC PHARMACY

PPS 990 - SUBSTANCE USE DISORDERS: HEALTH IMPLICATIONS, POLICIES AND PREVENTION STRATEGIES

PPS 991 - ADVANCED COMMUNITY PRACTICE

PPS 992 - ADVANCED COMMUNITY HOSPITAL

PPS 993 - AMBULATORY CARE PRACTICE

PPS 994 - ACUTE CARE/INPATIENT PRACTICE

PPS 995 - PATIENT CARE PRACTICE ELECTIVE

PPS 996 - NON-PATIENT CARE PRACTICE ELECTIVE

PR1 583 - PREVENTATIVE MED @ E CAR UNIV

PRD 510 - TOPICS IN DESIGN COMPETENCIES: (SUBTITLE REQUIRED)

PRD 520 - TOPICS IN DESIGN MANAGEMENT: (SUBTITLE REQUIRED)

PRD 530 - TOPICS IN SOCIAL IMPACT AND INNOVATION IN PRODUCT DESIGN: (SUBTITLE REQUIRED)

PRD 540 - TOPICS IN ADVANCED MATERIALS AND PROCESSES (SUBTITLE REQUIRED)

PRD 550 - TOPICS IN PROFESSIONAL DEVELOPMENT IN PRODUCT DESIGN: (SUBTITLE REQUIRED)

PRD 560 - TOPICS IN PRODUCT DESIGN IN HEALTHCARE: (SUBTITLE REQUIRED)

PRO 820 - PRECLINICAL COMPLETE DENTURE PROSTHODONTICS (LECTURE)

PRO 821 - CLINICAL COMPLETE DENTURE PROSTHODONTICS

PRO 822 - PRECLINICAL COMPLETE DENTURE PROSTHODONTICS (LAB)

PRO 824 - REMOVABLE PARTIAL DENTURES

PRO 830 - ADVANCED REMOVABLE PROSTHODONTICS

PRO 831 - CLINICAL REMOVABLE PROSTHODONTICS

PRO 834 - PRECLINICAL RESTORATIVE DENTISTRY III

PRO 836 - ADVANCED FIXED PROSTHODONTICS AND TREATMENT PLANNING

PRO 841 - ADVANCED CLINICAL REMOVABLE PROSTHODONTICS

PRO 850 - PROSTHODONTICS ELECTIVE

PS 411G - COMPARATIVE GOVERNMENT-PARLIMENTARY DEMOCRACIES I

PS 412G - COMPARATIVE GOVERNMENT-PARLIAMENTARY DEMOCRACIES II

PS 417G - SURVEY OF SUB-SAHARAN POLITICS

PS 428G - LATIN AMERICAN GOVERNMENT AND POLITICS

PS 430G - THE CONDUCT OF AMERICAN FOREIGN RELATIONS

PS 431G - NATIONAL SECURITY POLICY

PS 433G - POLITICS OF INTERNATIONAL ECONOMIC RELATIONS

PS 436G - INTERNATIONAL ORGANIZATION

PS 437G - DYNAMICS OF INTERNATIONAL LAW

PS 439G - SPECIAL TOPICS IN INTERNATIONAL RELATIONS

PS 441G - EARLY POLITICAL THEORY

PS 442G - MODERN POLITICAL THEORY

PS 461G - CIVIL LIBERTIES

PS 463G - JUDICIAL POLITICS

PS 465G - CONSTITUTIONAL LAW

PS 470G - AMERICAN POLITICAL PARTIES

PS 472G - POLITICAL CAMPAIGNS AND ELECTIONS

PS 473G - PUBLIC OPINION

PS 474G - POLITICAL PSYCHOLOGY

PS 475G - POLITICS AND THE MASS MEDIA

PS 476G - LEGISLATIVE PROCESS

PS 480G - GOVERNMENT AND THE ECONOMY

PS 484G - THE AMERICAN PRESIDENCY

PS 489G - THE ANALYSIS OF PUBLIC POLICY

PS 538 - CONFLICT AND COOPERATION IN LATIN AMERICAN RELATIONS

PS 545 - AMERICAN POLITICAL THOUGHT

PS 557 - KENTUCKY GOVERNMENT AND POLITICS

PS 566 - CONSTITUTIONAL INTERPRETATION

PS 571 - INTEREST GROUPS

PS 572 - INTRODUCTION TO QUANTITATIVE POLITICAL METHODOLOGY

PS 580 - THE BUDGETARY PROCESS

PS 620 - COMPARATIVE POLITICS: THEORY AND METHOD

PS 630 - PROSEMINAR IN NON-INSTITUTIONAL POLITICAL BEHAVIOR

PS 671 - STRATEGIES OF INQUIRY IN POLITICAL SCIENCE

PS 672 - INTRODUCTION TO TECHNIQUES OF POLITICAL RESEARCH

PS 674 - PROSEMINAR IN THEORIES OF INTERNATIONAL POLITICS

PS 679 - AMERICAN POLITICAL INSTITUTIONS

PS 680 - PROSEMINAR IN POLITICAL INSTITUTIONS AND PROCESS

PS 681 - AMERICAN POLITICAL BEHAVIOR

PS 684 - PROSEMINAR IN POLICY STUDIES

PS 690 - PROSEMINAR IN CONTEMPORARY POLITICAL THEORY

PS 711 - TOPICAL SEMINAR IN POLITICAL SCIENCE (SUBTITLE REQUIRED)

PS 731 - INTERNATIONAL SECURITY/CONFLICT ANALYSIS

PS 732 - COMPARATIVE FOREIGN POLICY (SUBTITLE REQUIRED)

PS 733 - INTERNATIONAL POLITICAL ECONOMY

PS 734 - GREAT BOOKS OF WORLD POLITICS

PS 735 - DEMOCRACY AND INTERNATIONAL AFFAIRS

PS 736 - COMPARATIVE POLITICAL BEHAVIOR

PS 737 - TRANSNATIONAL ORGANIZATIONS AND PROCESSES

PS 738 - CIVIL CONFLICT

PS 739 - COMPARATIVE POLITICAL INSTITUTIONS

PS 740 - HUMAN RIGHTS

PS 741 - INTERNATIONAL SECURITY

PS 748 - MASTER'S THESIS RESEARCH

PS 749 - DISSERTATION RESEARCH

PS 750 - POLITICAL PARTIES AND ELECTIONS IN AMERICA

PS 756 - REGIONAL POLITICS (SUBTITLE REQUIRED)

PS 759 - COMPARATIVE POLITICAL BEHAVIOR

PS 760 - SEMINAR IN JUDICIAL PROCESS

PS 762 - SEMINAR IN JUDICIAL POLICY MAKING

PS 765 - RESEARCH PROBLEMS IN JUDICIAL POLITICS

PS 767 - DISSERTATION RESIDENCY CREDIT

PS 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

PS 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

PS 770 - DEMOCRATIC THEORY AND PUBLIC POLICY

PS 772 - ADVANCED PROBLEMS IN RESEARCH METHODS

PS 775 - SEMINAR IN PUBLIC POLICY

PS 776 - TOPICAL SEMINAR IN POLICY STUDIES (SUBTITLE REQUIRED)

PS 778 - RESEARCH PROBLEMS IN TRANSNATIONAL POLITICS

PS 780 - LEGISLATIVE BEHAVIOR

PS 795 - SPECIAL PROBLEMS IN POLITICAL SCIENCE

PS 796 - DIRECTED RESEARCH IN POLITICAL SCIENCE

PSC 801 - M1-M2 ELECTIVE IN PSYCHIATRY

PSC 815 - FIRST-YEAR ELECTIVE, PSYCHIATRY

PSC 825 - SECOND-YEAR ELECTIVE, PSYCHIATRY

PSC 826 - MECHANISMS OF DISEASE AND TREATMENT/PSYCHIATRY

PSC 841 - ELECTIVE: PSYCHIATRY

PSC 842 - ELECTIVE: CHILD & ADOLESCENT PSYCHIATRY

PSC 843 - ACTING INTERNSHIP: ADULT INPATIENT PSYCHIATRY

PSC 849 - ELECTIVE: EXTRAMURAL ROTATION IN PSYCHIATRY

PSC 850 - STUDENT HEALTH SERVICE PSYCHIATRY

PSC 851 - ACTING INTERNSHIP IN PSYCHIATRY--UK

PSC 852 - ACTING INTERNSHIP IN PSYCHIATRY--VAH

PSC 855 - OUTPATIENT PSYCHIATRY

PSC 858 - DAY HOSPITAL UNIT

PSC 863 - VAMC PSYCHIATRY RESEARCH ELECTIVE

PSC 867 - PSYCHIATRY CONSULTATION SERVICE

PSC 869 - ELECTIVE: RESEARCH IN PSYCHIATRY

PSC 870 - EASTERN STATE HOSPITAL ROTATION

PSC 871 - EMERGENCY ROOM PSYCHIATRY

PSC 873 - VA PSYCHIATRIC 'COMBINATION'

PSC 874 - VA PSYCHOSOCIAL WARD, LEESTOWN DIVISION

PSC 876 - ELECTIVE: TRIPLE BOARD PSYCHIATRY

PSC 890 - ELECTIVE: PSYCHIATRY OFF-SITE

PSC 931 - ACTING INTERNSHIP: ADULT PSYCHIATRY INPATIENT IN BOWLING GREEN

PSC 932 - ELECTIVE: OUTPATIENT PSYCHIATRY IN BOWLING GREEN

PSY 500 - HISTORY AND SYSTEMS OF PSYCHOLOGY

PSY 529 - PSYCHOLINGUISTICS

PSY 534 - CHILD PSYCHOPATHOLOGY

PSY 535 - PSYCHOLOGICAL TESTING

PSY 552 - EVOLUTIONARY PSYCHOLOGY

PSY 561 - ADVANCED TOPICS IN FOUNDATIONS OF CLINICAL PSYCHOLOGY:(SUBTITLE REQUIRED)

PSY 562 - ADVANCED TOPICS IN COGNITIVE PSYCHOLOGY (SUBTITLE REQUIRED)

PSY 563 - ADVANCED TOPICS IN DEVELOPMENTAL PSYCHOLOGY (SUBTITLE REQUIRED)

PSY 564 - ADVANCED TOPICS IN LEARNING (SUBTITLE REQUIRED)

PSY 565 - ADVANCED TOPICS IN NEUROSCIENCE (SUBTITLE REQUIRED)

PSY 566 - ADVANCED TOPICS IN SOCIAL PSYCHOLOGY (SUBTITLE REQUIRED)

PSY 603 - PSYCHOPATHOLOGY

PSY 610 - PSYCHOMETRICS

PSY 611 - PSYCHOLOGICAL RESEARCH

PSY 613 - BEHAVIORAL ECOLOGY AND COMPARATIVE NEUROBIOLOGY

PSY 614 - TECHNIQUES IN BEHAVIORAL ECOLOGY AND COMPARATIVE NEUROBIOLOGY

PSY 616 - RESEARCH DESIGN IN CLINICAL PSYCHOLOGY

PSY 620 - PROSEMINAR IN HISTORY AND SYSTEMS OF PSYCHOLOGY

PSY 621 - PROSEMINAR IN LEARNING

PSY 622 - PROSEMINAR IN PERSONALITY

PSY 623 - PROSEMINAR IN SENSATION AND PERCEPTION.

PSY 624 - PROSEMINAR IN SOCIAL PSYCHOLOGY

PSY 625 - PROSEMINAR IN DEVELOPMENTAL PSYCHOLOGY

PSY 626 - SURVEY OF HEALTH PSYCHOLOGY

PSY 627 - PROSEMINAR IN PHYSIOLOGICAL PSYCHOLOGY

PSY 628 - PROSEMINAR IN COGNITIVE PROCESSES

PSY 629 - INTRODUCTION TO CLINICAL PSYCHOLOGY

PSY 630 - CLINICAL METHODOLOGY I

PSY 631 - PRACTICUM IN CLINICAL METHODOLOGY I

PSY 632 - CLINICAL METHODOLOGY II

PSY 633 - PRACTICUM IN CLINICAL METHODOLOGY II

PSY 636 - SYSTEMS OF PSYCHOTHERAPY

PSY 637 - PRACTICUM IN PSYCHOLOGICAL ASSESSMENT AND INTERVENTION

PSY 638 - DEVELOPMENTAL NEUROBIOLOGY

**PSY 639 - PRACTICUM IN PSYCHOLOGICAL ASSESSMENT AND INTERVENTION
SUMMER WORK**

PSY 664 - CULTURAL ISSUES IN MENTAL ILLNESS

PSY 708 - INTERNSHIP IN CLINICAL PSYCHOLOGY

PSY 710 - TOPICAL SEMINAR IN CLINICAL PSYCHOLOGY

PSY 748 - MASTER'S THESIS RESEARCH

PSY 766 - TOPICAL SEMINAR IN BEHAVIORAL NEUROSCIENCE

PSY 767 - DISSERTATION RESIDENCY CREDIT

PSY 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

PSY 772 - TOPICAL SEMINAR IN LEARNING

PSY 776 - SEMINAR IN DEPENDENCY BEHAVIOR

PSY 778 - TOPICAL SEMINAR IN DEVELOPMENTAL PSYCHOLOGY

PSY 779 - TOPICAL SEMINAR IN SOCIAL PSYCHOLOGY

PSY 780 - PROBLEMS IN PSYCHOLOGY

PSY 781 - RESEARCH PARTICIPATION

PSY 790 - RESEARCH IN PSYCHOLOGY

PT 603 - PHARMACOLOGY I

PT 604 - PHARMACOLOGY II

PT 605 - ADVANCED SPORTS NUTRITION

PT 606 - PHYSICAL THERAPY IN LONG TERM CARE

PT 610 - ETHICS IN CLINICAL SCIENCES RESEARCH

PT 625 - ADVANCED ASSESSMENT AND MANAGEMENT OF THE PATIENT WITH MUSCULOSKELETAL DISORDERS

PT 628 - GERONTOLOGY FOR PHYSICAL THERAPY STUDENTS

PT 645 - EVIDENCE INFORMED PRACTICE I: FUNDAMENTAL PRINCIPLES

PT 650 - DYSFUNCTION OF PERIPHERAL JOINTS

PT 651 - DYSFUNCTION OF VERTEBRAL JOINTS

PT 652 - PATHOMECHANICS

PT 654 - MOTOR CONTROL THEORY AND INTERVENTION

PT 655 - NEUROMOTOR DEVELOPMENT

PT 660 - ADVANCED CLINICAL PRACTICUM IN PHYSICAL THERAPY

PT 668 - RESEARCH TOPICS IN PHYSICAL THERAPY: ANALYSIS

PT 669 - EVIDENCE INFORMED PRACTICE IV: OUTCOMES

PT 676 - ELECTROPHYSIOLOGICAL TESTING AND THERAPEUTICS

PT 686 - SPECIALTY ELECTIVES

PT 695 - INDEPENDENT STUDY IN PHYSICAL THERAPY

PT 705 - SKELETAL MUSCLE PHYSIOLOGY AND ADAPTABILITY

PT 754 - SEMINAR ON MOTOR CONTROL

PT 770 - SEMINAR IN PHYSICAL THERAPY PUBLIC HEALTH AND WELLNESS ISSUES

PT 776 - CURRENT ISSUES IN PEDIATRIC PHYSICAL THERAPY

PT 778 - CURRENT TRENDS IN NEUROLOGICAL PHYSICAL THERAPY

PT 804 - BEHAVIORAL FACTORS IN HEALTH AND DISEASE ACROSS THE LIFESPAN

PT 805 - NORMAL FUNCTIONAL ANATOMY

PT 814 - FOUNDATIONAL SKILLS

PT 815 - BASIC CLINICAL SKILLS

PT 821 - MANAGEMENT OF VASCULAR AND INTEGUMENTARY DISORDERS

PT 825 - PROSTHETICS

PT 826 - ORTHOTICS

PT 827 - PHYSICAL THERAPY MANAGEMENT OF THE SPINAL CORD INJURED PATIENT

PT 830 - DIAGNOSTIC IMAGING, SCREENING & INSTRUMENTATION

PT 831 - CLINICAL NEUROPHYSIOLOGY

PT 834 - INTRODUCTION TO PHYSICAL THERAPY AND BIOETHICS

PT 835 - PHYSICAL THERAPY INTEGRATED CLINICAL I

PT 836 - PHYSICAL THERAPY INTEGRATED CLINICAL II

PT 837 - FULL-TIME CLINICAL I

PT 838 - INTERMEDIATE FULL-TIME CLINICAL II

PT 839 - TERMINAL FULL-TIME CLINICAL III

PT 840 - TERMINAL FULL-TIME CLINICAL IV

PT 847 - MANAGEMENT OF NEUROLOGICAL PROBLEMS

PT 850 - ADVANCED MANUAL INTERVENTIONS

PT 854 - PATHOLOGY AND CLINICAL APPLICATION

PT 856 - THERAPEUTIC EXERCISE I

PT 858 - ADVANCED ASSESSMENT AND MANAGEMENT OF THE PEDIATRIC PATIENT

PT 860 - DIAGNOSIS AND MANAGEMENT OF COMPLEX PATIENTS

PT 867 - EVIDENCE INFORMED PRACTICE II: DESIGN

PT 877 - CARDIOPULMONARY PHYSICAL THERAPY

PT 887 - INTRODUCTION TO PHYSICAL THERAPY MANAGEMENT

PT 888 - ADVANCED PHYSICAL THERAPY MANAGEMENT

PT 890 - PROFESSIONAL SEMINAR

PT 902 - INTEGRATION OF EVIDENCE BASED PRACTICE

PT 904 - HEALTH PROMOTION AND DISEASE PREVENTION

PT 906 - ADVANCED PHYSICAL THERAPY DIAGNOSIS AND SCREENING

PT 908 - CLINICAL DECISION MAKING FOR PATIENTS WITH COMPLEX PROBLEMS I

PT 910 - CLINICAL DECISION MAKING FOR PATIENTS WITH COMPLEX PROBLEMS II

PT 912 - ADVANCED ELECTIVES

PY1 726 - PATHOLOGY @ UNIV OF TX HOUSTON

PY1 880 - PATHOLOGY @ LONDON, ENGLAND

PY3 576 - SUR PATHOLOGY @ UNIV OF ROCHESTER, NY

PY3 680 - SUR PATHOLOGY @ MED UNIV S CAR

PY7 680 - GYN/PATH @ MED S CAR

PYD 600 - CONTEMPORARY ISSUES IN YOUTH & AGRICULTURE

PYD 610 - ENGAGING THE LEARNER: EXPLORING BRAIN-BASED LEARNING

PYD 620 - FOUNDATIONS OF POSITIVE YOUTH DEVELOPMENT

PYD 630 - LEARNING ENVIRONMENTS: POSITIVE YOUTH DEVELOPMENT PRINCIPLES IN PRACTICE

PYD 695 - INDEPENDENT WORK IN POSITIVE YOUTH DEVELOPMENT

RAS 472G - INTERACTIONS OF RADIATION WITH MATTER

RAS 540 - FUNDAMENTALS OF RADIATION BIOLOGY

RAS 541 - RADIOISOTOPE METHODOLOGY

RAS 545 - RADIATION HAZARDS AND PROTECTION

RAS 546 - GENERAL MEDICAL RADIOLOGICAL PHYSICS

RAS 575 - APPLIED HEALTH PHYSICS LABORATORY

RAS 601 - ADVANCED RADIATION DOSIMETRY

RAS 610 - ETHICS IN CLINICAL SCIENCES RESEARCH

RAS 647 - PHYSICS OF DIAGNOSTIC IMAGING I

RAS 648 - PHYSICS OF DIAGNOSTIC IMAGING II

RAS 649 - PHYSICS OF RADIATION THERAPY

RAS 650 - PHYSICS OF RADIATION THERAPY II: BRACHYTHERAPY PHYSICS

RAS 651 - ADVANCED LABORATORY IN DIAGNOSTIC IMAGING PHYSICS

RAS 695 - RESEARCH IN HEALTH-RELATED RADIATION SCIENCES

RAS 710 - RADIATION SCIENCE SEMINAR (SUBTITLE REQUIRED)

RAS 711 - RESEARCH METHODS IN MEDICAL PHYSICS

RAS 715 - ADVANCED PROBLEMS IN THE HEALTH-RELATED RADIATION SCIENCES

RAS 767 - DISSERTATION RESIDENCY CREDIT

RAS 849 - RADIATION SCIENCES PRACTICUM

RBM 815 - FIRST YEAR ELECTIVE, REHABILITATION MEDICINE

RBM 825 - SECOND YEAR ELECTIVE, REHABILITATION MEDICINE

RBM 849 - ELECTIVE: EXTRAMURAL ROTATION IN PHYSICAL MEDICINE & REHABILITATION

RBM 850 - ACTING INTERNSHIP: REHABILITATION MEDICINE

RBM 851 - ELECTIVE: OUTPATIENT REHABILITATION MEDICINE

RBM 852 - PEDIATRIC ORTHOPAEDIC REHABILITATION

RD1 566 - RAD/ON @ MT SINAI MED CTR

RD1 667 - RAD/ON @ JEFFERSON UNIV, PA

RD1 672 - RAD/ON @ FOX CHASE CANCER CTR

RD1 680 - RAD/ON @ MED UNIV S. CAR

RD1 840 - RAD/ON @ MED CTR OF WI

RD4 740 - RADIATION MED @ UNIV OF UTAH MED

RH1 584 - REHAB MED @ U OF N CAR

RH1 906 - REHAB MED @ QINGDAO UNIV MED CTR CHI

RHB 625 - MUSCLE FORUM

RHB 680 - LABORATORY TECHNIQUES IN REHABILITATION SCIENCE

RHB 701 - REHABILITATION AND HEALTH SCIENCES THEORIES & APPLICATIONS THROUGH THE LIFE SPAN

RHB 710 - NEUROPLASTICITY IN REHABILITATION

RHB 712 - PHARMACOLOGY IN REHABILITATION

RHB 714 - CRITICAL APPRAISAL OF RESEARCH IN REHABILITATION AND HEALTH SCIENCES

RHB 720 - RESEARCH IN REHABILITATION AND HEALTH SCIENCES

RHB 730 - INTRODUCTION TO TELEHEALTH

RHB 731 - TELEHEALTH PROFESSIONAL PRACTICES

RHB 732 - CLINICAL PRACTICE WITHIN A TELEHEALTH ENVIRONMENT

RHB 744 - ADVANCED TOPICS IN MOTOR DEVELOPMENT

RHB 767 - DISSERTATION RESIDENCY CREDIT

RHB 770 - PROFESSIONAL SEMINAR IN REHABILITATION AND HEALTH SCIENCES

RHB 771 - RESEARCH SEMINAR IN REHABILITATION AND HEALTH SCIENCES

RHB 772 - PROFESSIONAL SEMINAR IN REHABILITATION AND HEALTH SCIENCES: ACADEMIA & BEYOND

RHB 773 - PROFESSIONAL SEMINAR IN REHABILITATION AND HEALTH SCIENCES: GRANT WRITING

RHB 774 - PROFESSIONAL SEMINAR IN REHABILITATION AND HEALTH SCIENCES: ISSUES IN TEACHING AND LEARNING IN HIGHER EDUCATION

RHB 775 - PROFESSIONAL SEMINAR IN REHABILITATION AND HEALTH SCIENCES: RESPONSIBLE CONDUCT IN RESEARCH AND ETHICS

RHB 787 - TEACHING APPRENTICESHIP IN REHABILITATION SCIENCES

RHB 788 - INDEPENDENT STUDY IN REHABILITATION SCIENCES

RHB 789 - RESEARCH APPRENTICESHIP IN REHABILITATION SCIENCES

RM 472G - INTERACTION OF RADIATION WITH MATTER

RM 545 - RADIATION HAZARDS AND PROTECTION

RM 546 - GENERAL MEDICAL RADIOLOGICAL PHYSICS

RM 601 - ADVANCED RADIATION DOSIMETRY

RM 647 - PHYSICS OF DIAGNOSTIC IMAGING I

RM 648 - PHYSICS OF DIAGNOSTIC IMAGING II

RM 649 - PHYSICS OF RADIATION THERAPY

RM 650 - PHYSICS OF RADIATION THERAPY II: BRACHYTHERAPY PHYSICS

RM 660 - GRADUATE PRACTICUM IN RADIATION MEDICINE

RM 695 - RESEARCH IN HEALTH-RELATED RADIATION SCIENCES

RM 740 - MAMMALIAN RADIATION BIOLOGY

RM 815 - FIRST-YEAR ELECTIVE, RADIATION MEDICINE

RM 842 - RADIATION ONCOLOGY

RM 848 - PRACTICUM IN BRACHYTHERAPY PHYSICS

RM 849 - PRACTICUM IN EXTERNAL BEAM THERAPY PHYSICS

RM 850 - ELECTIVE: RADIATION ONCOLOGY

RM 852 - ELECTIVE: RESEARCH IN RADIATION MEDICINE

RM 853 - CLINICAL CLERKSHIP IN RADIATION MEDICINE

RM 931 - ELECTIVE: RADIATION ONCOLOGY IN BOWLING GREEN

RMM 999 - TITLE NEEDED

RSC 700 - MAMMALIAN REPRODUCTION

RSC 701 - ADVANCE REPRODUCTIVE IMMUNOLOGY

RSC 702 - MOLECULAR REPRODUCTION

RSC 703 - BIOLOGY AND THERAPY OF REPRODUCTIVE CANCERS

RSC 767 - REPRODUCTIVE SCIENCES POST-QUALIFYING RESEARCH

RSC 790 - REPRODUCTIVE SCIENCES PRE-QUALIFYING RESEARCH

RSD 810 - FOUNDATIONS IN OPERATIVE DENTISTRY I

RSD 811 - PRINCIPLES OF DENTAL ANATOMY, MORPHOLOGY & OCCLUSION

**RSD 812 - PRINCIPLES OF DENTAL ANATOMY, MORPHOLOGY AND OCCLUSION
(LABORATORY)**

RSD 813 - DENTAL CARIOLOGY

RSD 814 - FOUNDATIONS IN OPERATIVE DENTISTRY II

RSD 816 - ESTHETIC DENTISTRY I

RSD 818 - PRECLINICAL ESTHETIC DENTISTRY I

RSD 821 - CLINICAL RESTORATIVE DENTISTRY I

RSD 822 - PRINCIPLES OF DENTAL OCCLUSION AND ARTICULATION

RSD 823 - RESTORATIVE DENTISTRY II

RSD 824 - PRECLINICAL RESTORATIVE DENTISTRY II

RSD 825 - RESTORATIVE DENTISTRY III

RSD 826 - PRECLINICAL RESTORATIVE DENTISTRY III

RSD 827 - DENTAL BIOMATERIALS

RSD 831 - CLINICAL RESTORATIVE DENTISTRY II

RSD 835 - ADVANCED ESTHETICS IN RESTORATIVE DENTISTRY

RSD 840 - RESTORATIVE DENTISTRY UPDATE

RSD 841 - CLINICAL RESTORATIVE DENTISTRY III

RSD 850 - RESTORATIVE DENTISTRY ELECTIVE

RSD 880 - ADVANCED COMPREHENSIVE DENTISTRY

RSD 881 - ADVANCED FIXED PROSTHODONTICS

RSD 883 - INTRODUCTION TO SPORTS DENTISTRY

RTM 600 - RESEARCH METHODOLOGY IN HUMAN ENVIRONMENTAL SCIENCES

RTM 650 - SURVEY OF CURRENT THEORIES AND LITERATURE

RTM 690 - INDUSTRY EXPERIENCE IN RETAILING AND TOURISM MANAGEMENT

RTM 748 - MASTER'S THESIS RESEARCH

RTM 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

RTM 772 - SEMINAR IN RETAILING AND TOURISM MANAGEMENT

RUS 410G - RUSSIAN FOR SPECIAL PURPOSES (SUBTITLE REQUIRED)

RUS 420G - READINGS IN RUSSIAN LITERATURE: (SUBTITLE REQUIRED)

RUS 430G - BUSINESS RUSSIAN

RUS 495G - ADVANCED INDEPENDENT WORK IN RUSSIAN STUDIES

RUS 501 - STRUCTURE OF RUSSIAN: SUBTITLE REQUIRED

RUS 502 - ADVANCED RUSSIAN CONVERSATION & COMPOSITION

RUS 525 - RUSSIAN LITERARY STUDIES (SUBTITLE REQUIRED)

RUS 535 - RUSSIAN VISUAL STUDIES (SUBTITLE REQUIRED)

RUS 545 - RUSSIAN CULTURAL STUDIES (SUBTITLE REQUIRED)

RUS 555 - TOPICAL SEMINAR ON RUSSIAN STUDIES (SUBTITLE REQUIRED)

RUS 670 - TOPICS IN RUSSIAN CULTURE AND FOLKLORE (SUBTITLE REQUIRED)

RUS 680 - TOPICS IN RUSSIAN/SOVIET LITERATURE (SUBTITLE REQUIRED)

RUS 690 - SPECIAL TOPICS IN RUSSIAN STUDIES (SUBTITLE REQUIRED)

RUS 695 - INDEPENDENT STUDY IN RUSSIAN STUDIES

SAG 416G - COVER CROPS IN AGROECOSYSTEMS

SCE 503 - LEAN MANUFACTURING PRINCIPLES AND PRACTICES

SCE 604 - SYSTEMS OPTIMIZATION AND SIMULATION (SYS O&S)

SCE 610 - BIG DATA AND SUPPLY CHAIN ANALYTICS

SCE 614 - SUSTAINABLE PRODUCTION SYSTEMS AND SUPPLY CHAINS

SCE 630 - SUPPLY CHAIN FUNDAMENTALS AND STRATEGY

SCE 631 - PRODUCTION AND OPERATIONS MANAGEMENT

SCE 632 - STRATEGIC SUPPLY CHAIN DESIGN

SCE 635 - LOGISTICS MANAGEMENT

SCE 740 - INDUSTRY PROJECT

SEM 504 - DESIGNING PROJECT-BASED ENVIRONMENTS IN STEM EDUCATION

SEM 521 - FOUNDATIONS IN STEM TEACHING

SEM 575 - SEE BLUE MATHEMATICS CLINIC

SEM 603 - CURRICULUM AND INSTRUCTION IN STEM EDUCATION

SEM 604 - HISTORY OF STEM EDUCATION

SEM 610 - TEACHER LEADERSHIP IN STEM EDUCATION

**SEM 613 - EFFECTIVE USE OF TECHNOLOGY FOR MODELING-BASED INQUIRY
IN STEM EDUCATION**

SEM 620 - EQUITY IN STEM EDUCATION

SEM 631 - MATHEMATICS PEDAGOGY IN THE SECONDARY SCHOOL

SEM 634 - SCIENCE PEDAGOGY IN THE SECONDARY SCHOOL

**SEM 670 - ADVANCED STUDY IN THE TEACHING OF ELEMENTARY SCHOOL
MATHEMATICS**

SEM 674 - ADVANCED STUDIES IN TEACHING ELEMENTARY SCHOOL SCIENCE

SEM 701 - HISTORY OF MATHEMATICS EDUCATION

SEM 702 - THEORETICAL FOUNDATIONS OF MATHEMATICS EDUCATION

SEM 703 - ADVANCED RESEARCH IN MATHEMATICS EDUCATION

SEM 706 - RESEARCH IN STEM EDUCATION

SEM 708 - ENGINEERING IN STEM EDUCATION

SEM 746 - SUBJ AREA INSTRUCTION IN THE SECARY SCH

SEM 748 - MASTERS THESIS RESEARCH

SEM 767 - DISSERTATION RESIDENCY CREDIT

SEM 770 - SPECIAL TOPICS IN STEM EDUCATION: SUBTITLE REQUIRED

SEM 781 - INDEPENDENT STUDY IN STEM ED

SG0 601 - SUR ICU @ UNIV OF CIN

SG1 542 - SURGERY @ INDIAN HLTH GAPPUP, NM

SG1 571 - SURGERY @ ALBERT EINSTEIN COM, NY

SG1 584 - SURGERY @ UNIV OF N CAR

SG1 601 - GEN SUR @ UNIV OF CIN

SG1 616 - SURGERY @ GOOD SAM HOSP CIN, OH

SG1 617 - SURGERY @ MT CARMEL HLTH SYS, OH

SG1 618 - SURGERY @ LAKELAND AFB, OH

SG1 619 - SURGERY @ LAKELAND AFB, OH

SG1 669 - SURGERY @ UNIV PITTSBURGH SCH OF MED

SG1 680 - SURGERY @ MED UNIV S CAR

SG1 702 - SURGERY @ NORTHWESTERN

SG1 703 - SURGERY @ VANDERBILT UNIV

SG1 708 - SURGERY @ UNIV TN CHATTANOOGA

SG1 709 - SURGERY @ UNIV TN MEMPHIS

SG1 726 - SURGERY @ UNIV TX HOUSTON

SG1 730 - SURGERY @ WILFORD HALL MED CTR

SG1 731 - SURGERY @ BROOKE ARMY MED CTR, TX

SG1 732 - SURGERY @ WM BEAUMONT ARMY MED CTR

SG1 780 - SURGERY @ UNIV OF VA

SG1 783 - SURGERY @ NAVAL REG MC PORTSMOUTH

SG1 899 - SURGERY @ UNIV OF AUCKLAND, NZ

SG2 893 - CT SURGERY @ ROYAL N SHORE SIDNEY AS

SG3 723 - NEUROSURGERY @ UNIV TX SOUTHWESTERN

SG3 780 - NEUROSURGERY @ UNIV OF VA

SG3 800 - NEUROSURGERY @ UNIV OF WASH

SG4 557 - ORTHO SUR @ HOS SPEC SUR, NY

SG4 576 - ORTHO SUR @ UNIV OF ROCHESTER, NY

SG4 584 - ORTHO SUR @ UNIV OF N CAR

SG4 588 - ORTHO SUR @ GREENVILLE HOSP SYS

SG4 601 - ORTHO SUR @ UNIV OF CIN

SG4 604 - ORTHO SUR @ OHIO ST UNIV

SG4 608 - ORTHO SUR @ CASE WESTERN RESERVE

SG4 618 - ORTHO SUR @ MT CARMEL HLTH SYS, OH

SG4 680 - ORTHO SUR @ MED UNIV OF S CAR

SG4 682 - ORTHO SUR @ UNIV S CAR AT COLUMBIA

SG4 685 - ORTHO SUR @ GREENVILLE SC

SG4 703 - ORTHO SUR @ VANDERBILT UNIV

SG4 708 - ORTHO SUR @ UT CHATTANOOGA

SG4 725 - ORTHO SUR @ BAYLOR UNIV COL MED

SG4 730 - ORTHO SUR @ WILFORD HALL AFB, TX

SG4 739 - ORTHO SUR @ LACKLAND AFB TX

SG4 800 - ORTHO SUR @ UNIV OF WASH

SG5 725 - PED SUR @ BAYLOR UNIV

SG6 566 - PLASTIC SUR @ MT SINAI SCH OF MED

SG6 595 - PLASTIC SUR @ UNIV OF NC CHAPEL HILL

SG6 596 - PLASTIC SUR @ WAKE FOREST UNIV

SG6 665 - PLASTIC SUR @ UNIV OF PITTSBURGH

SG6 703 - PLASTIC SUR @ VANERBILT UNIV

SG6 723 - PLASTIC SUR @ UNIV TX SOUTHWESTN

SG6 780 - PLASTIC SUR @ VANDERBILT UNIV

SG7 584 - UROLOGY @ UNIV OF N CAR

SG7 604 - UROLOGY @ OHIO STATE UNIV

SG7 680 - UROLOGY @ MED UNIV S CAR

SG7 709 - UROLOGY @ UNIV OF TN MEMPHIS

SG7 729 - UROLOGY @ UNIV TX HSLC

SG7 780 - UROLOGY @ UNIV OF VA

SG7 840 - UROLOGY @ UNIV OF WI

SG8 584 - ENT @ UNIV OF N CAR, CHAPEL HILL

SG8 601 - ENT @ UNIV OF CIN

SG8 604 - ENT SUR @ OHIO ST UNIV

SG8 680 - ENT SUR @ MEDICAL UNIV OF S CAR

SG8 703 - ENT SUR @ VANDERBIL UNIV

SOC 506 - SOCIOLINGUISTICS

SOC 508 - DISCOURSE ANALYSIS

SOC 517 - RURAL SOCIOLOGY

SOC 534 - SOCIOLOGY OF APPALACHIA

**SOC 535 - ADVANCED TOPICS IN SOCIAL INEQUALITIES (SUBTITLED)
REQUIRED)**

**SOC 539 - ADVANCED TOPICS IN CRIME, LAW AND DEVIANCE (SUBTITLE
REQUIRED**

**SOC 541 - ADVANCED TOPICS IN WORK, ORGANIZATIONS, AND ECONOMY
(SUBTITLE REQUIRED)**

SOC 543 - ADVANCED TOPICS IN POLITICAL SOCIOLOGY (SUBTITLE REQUIRED

SOC 550 - ADVANCED TOPICS IN SOCIOLOGY (SUBTITLE REQUIRED)

SOC 551 - HEALTH, ILLNESS, AND DISABILITIES

SOC 565 - INDEPENDENT WORK

SOC 603 - SEMINAR IN TEACHING SOCIOLOGY

SOC 610 - PROSEMINAR IN COMPLEX ORGANIZATION

SOC 622 - TOPICS AND METHODS OF EVALUATION

SOC 630 - PROSEMINAR IN DEVIANT BEHAVIOR

SOC 635 - SEMINAR IN SOCIAL INEQUALITIES

SOC 637 - SOCIOCULTURAL DIMENSIONS OF ECONOMIC DEVELOPMENT

SOC 640 - SCIENCE, AGRICULTURE, AND DEVELOPMENT

SOC 641 - GENDER ISSUES IN DEVELOPMENT

SOC 642 - THE SOCIOLOGY OF WORK, OCCUPATIONS AND LABOR MARKETS

SOC 645 - TOPICS IN POLITICAL SOCIOLOGY

SOC 646 - SOCIAL MOVEMENTS AND SOCIAL CHANGE

SOC 650 - CONCEPTS AND THEORIES IN SOCIOLOGY

SOC 651 - CLASSICAL SOCIOLOGICAL THEORY

SOC 661 - SOCIOLOGY OF EDUCATION

SOC 665 - PROGRAM DEVELOPMENT AND EVALUATION

SOC 675 - THEORETICAL FOUNDATIONS OF COMMUNICATION AND COMMUNITY

SOC 680 - SOCIAL INVESTIGATION

SOC 681 - QUANTITATIVE ANALYSIS I

SOC 682 - SPECIAL TOPICS IN ADVANCED SOCIOLOGICAL METHODS

SOC 683 - SURVEY RESEARCH

SOC 685 - COMMUNITY DEVELOPMENT THEORY AND PRACTICE

SOC 691 - SOCIOLOGY OF FOOD AND AGRICULTURE

SOC 720 - RACE, RACISM, AND REPRESENTATION

SOC 730 - SPECIAL TOPICS IN DEVIANT BEHAVIOR

SOC 735 - TOPICAL SEMINAR IN SOCIAL INEQUALITIES 03.0

SOC 737 - CULTURE, ENVIRONMENT AND DEVELOPMENT

SOC 748 - MASTER'S THESIS RESEARCH

SOC 749 - DISSERTATION RESEARCH

SOC 750 - SPECIAL TOPICS IN SOCIAL CHANGE AND DEVELOPMENT

SOC 751 - CONTEMPORARY SOCIOLOGICAL THEORY

SOC 752 - SEMINAR IN FAMILY THEORY CONSTRUCTION

SOC 766 - CONCEPTS IN MEDICAL SOCIOLOGY

SOC 767 - DISSERTATION RESIDENCY CREDIT

SOC 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

SOC 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

SOC 772 - TOPICAL SEMINAR IN SOCIOLOGY

SOC 773 - TOPICAL SEMINAR

SOC 776 - SEMINAR IN DEPENDENCY BEHAVIOR

SOC 779 - TOPICAL SEMINAR IN SOCIAL PSYCHOLOGY

SOC 780 - SPECIAL PROBLEMS IN SOCIOLOGY

SOC 781 - QUANTITATIVE DATA ANALYSIS II

SOC 790 - RESEARCH IN RURAL SOCIOLOGY

SOC 792 - RESEARCH IN SOCIOLOGY

SOC 797 - COMMUNITY DEVELOPMENT PRACTICUM

SPA 438G - LITERATURE OF SOCIAL PROTEST IN SPANISH AMERICA

SPA 501 - SPANISH PHONETICS, PRONUNCIATION AND PHONEMICS

SPA 506 - INTRODUCTION TO COMPARATIVE SPANISH, PORTUGUESE, AND ITALIAN LINGUISTICS

SPA 519 - THEMES IN MEDIEVAL AND EARLY MODERN SPANISH

**SPA 524 - APPROACHES TO DIVERSITY IN THE MODERN WORLD:
UNDERSTANDING LATINX CULTURES**

**SPA 529 - THEMES IN MODERN AND CONTEMPORARY SPANISH LITERATURE,
CULTURE AND FILM (SUBTITLE REQUIRED)**

**SPA 539 - THEMES IN LATIN AMERICAN LITERATURE, CULTURE AND FILM
(SUBTITLE REQUIRED)**

SPA 551 - TUTORIAL SEMINAR FOR MAJORS IN SPANISH

SPA 553 - TEACHING OF SPANISH

SPA 600 - INTRODUCTION TO SPANISH LINGUISTICS

SPA 601 - STUDIES IN SPANISH PEDAGOGY: (SUBTITLE REQUIRED)

SPA 602 - STUDIES IN SPANISH LINGUISTICS: (SUBTITLE REQUIRED)

SPA 603 - SPANISH APPLIED LINGUISTICS

SPA 604 - SOCIOLINGUISTICS OF THE SPANISH-SPEAKING WORLD

SPA 605 - HISTORY OF THE SPANISH LANGUAGE

SPA 606 - INTRODUCTION TO CRITICAL THEORY AND CULTURAL STUDIES

**SPA 607 - SPECIAL TOPICS IN CRITICAL THEORY AND CULTURAL STUDIES:
(SUBTITLE REQUIRED)**

**SPA 608 - SPECIAL TOPICS IN SPANISH LITERATURE AND CULTURE: (SUBTITLE
REQUIRED)**

**SPA 609 - SPECIAL TOPICS IN LATIN AMERICAN AND U.S. HISPANIC
LITERATURE AND CULTURE: (SUBTITLE REQUIRED)**

SPA 610 - STUDIES IN MEDIEVAL SPANISH LITERATURE: (SUBTITLE REQUIRED)

**SPA 620 - STUDIES IN EARLY MODERN AND BAROQUE SPANISH LITERATURE
(SUBTITLE REQUIRED)**

**SPA 630 - STUDIES IN 18TH AND 19TH CENTURY SPANISH
LITERATURE:(SUBTITLE REQUIRED)**

**SPA 640 - STUDIES IN 20TH AND 21ST CENTURY SPANISH LITERATURE:
(SUBTITLE REQUIRED)**

**SPA 650 - STUDIES IN COLONIAL LATIN AMERICAN LITERATURE: (SUBTITLE
REQUIRED)**

SPA 653 - STUDIES IN SPANISH PEDAGOGY (SUBTITLE REQUIRED)

SPA 654 - SPANISH DIALECTOLOGY

SPA 655 - COMPARATIVE-HISTORICAL ROMANCE LINGUISTICS

**SPA 660 - STUDIES IN 19TH CENTURY LATIN AMERICAN LITERATURE:
(SUBTITLE REQUIRED)**

**SPA 680 - STUDIES IN 20TH CENTURY LATIN AMERICAN LITERATURE 1900-
1950'S: (SUBTITLE REQUIRED)**

SPA 681 - STUDIES IN CONTEMPORARY LATIN AMERICAN LITERATURE 1960'S TO PRESENT: (SUBTITLE REQUIRED)

SPA 685 - STUDIES IN U.S. HISPANIC LITERATURE AND CULTURE: (SUBTITLED REQUIRED)

SPA 690 - STUDIES IN SPANISH AND/OR LATIN AMERICAN FILM: (SUBTITLE REQUIRED)

SPA 703 - SEMINAR IN SLA THEORY IN SPANISH L2 LEARNING

SPA 704 - SEMINAR IN LINGUISTIC ANALYSIS OF SPANISH DISCOURSE (SUBTITLE REQUIRED)

SPA 705 - SEMINAR IN HISTORICAL LANGUAGE CONTACT IN THE SPANISH SPEAKING WORLD

SPA 706 - ADVANCED READINGS IN CRITICAL THEORY AND CULTURAL STUDIES: (SUBTITLE REQUIRED)

SPA 708 - CRITICAL PERSPECTIVES ON SPANISH LITERATURE AND CULTURE: (SUBTITLE REQUIRED)

SPA 709 - CRITICAL PERSPECTIVES ON LATIN AMERICAN AND U.S.

SPA 710 - SEMINAR IN MEDIEVAL SPANISH LITERATURE AND CULTURE: (SUBTITLE REQUIRED)

SPA 720 - SEMINAR IN EARLY MODERN AND BAROQUE SPANISH LITERATURE AND CULTURE: (SUBTITLE REQUIRED)

SPA 730 - SEMINAR IN 18TH AND 19TH CENTURY SPANISH LITERATURE AND CULTURE: (SUBTITLE REQUIRED)

SPA 740 - SEMINAR 20-21ST CENTURY SPANISH LITERATURE AND CULTURE (SUBTITLE REQUIRED)

SPA 748 - MASTER'S THESIS RESEARCH

SPA 749 - DISSERTATION RESEARCH

SPA 750 - SEMINAR IN COLONIAL LATIN AMERICAN LITERATURE AND CULTURE: (SUBTITLE REQUIRED)

SPA 760 - SEMINAR IN 19TH CENTURY LATIN AMERICAN LITERATURE AND CULTURE: (SUBTITLE REQUIRED)

SPA 767 - DISSERTATION RESIDENCY CREDIT

SPA 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

SPA 769 - RESIDENCE CREDIT FOR DOCTOR'S DEGREE

SPA 770 - INTRODUCTION TO HISPANIC STUDIES

SPA 780 - SEMINAR IN 20TH CENTURY LATIN AMERICAN LITERATURE AND CULTURE 1900-1950'S: (SUBTITLE REQUIRED)

SPA 781 - SEMINAR IN CONTEMPORARY LATIN AMERICAN LITERATURE AND

SPA 782 - SPECIAL STUDIES IN SPANISH

SPA 785 - SEMINAR IN U.S. HISPANIC AND BORDER LITERATURE AND CULTURE: (SUBTITLE REQUIRED)

ST 500 - INTRODUCTION TO SOCIAL THEORY

ST 600 - MULTIDISCIPLINARY PERSPECTIVES IN SOCIAL THEORY (SUBTITLE REQUIRED)

ST 610 - 'DISCLOSURE' EDITORIAL COLLECTIVE

ST 690 - TRANSDISCIPLINARY PERSPECTIVES IN SOCIAL THEORY

STA 417G - DECISION MAKING UNDER UNCERTAINTY

STA 515 - LINEAR AND COMBINATORIAL OPTIMIZATION

STA 524 - PROBABILITY

STA 525 - INTRODUCTORY STATISTICAL INFERENCE

STA 569 - APPLIED STATISTICAL METHODS

STA 570 - BASIC STATISTICAL ANALYSIS

STA 580 - BIostatISTICS I

STA 600 - COMMUNICATING IN STATISTICS

STA 602 - INTRODUCTION TO STATISTICAL METHODS

STA 603 - INTRODUCTION TO LINEAR MODELS AND EXPERIMENTAL DESIGN

STA 605 - COMPUTATIONAL INFERENCE

STA 606 - THEORY OF STATISTICAL INFERENCE I

STA 607 - THEORY OF STATISTICAL INFERENCE II

STA 612 - SEQUENTIAL ANALYSIS

STA 619 - PROBLEMS SEMINAR IN OPERATIONS RESEARCH

STA 621 - NONPARAMETRIC INFERENCE

STA 623 - THEORY OF PROBABILITY

STA 624 - APPLIED STOCHASTIC PROCESSES

STA 626 - TIME SERIES ANALYSIS

STA 630 - BAYESIAN INFERENCE

STA 632 - LONGITUDINAL DATA ANALYSIS

STA 635 - SURVIVABILITY AND LIFE TESTING

STA 643 - ADVANCED EXPERIMENTAL DESIGN

STA 644 - ADVANCED LINEAR AND NONLINEAR MODELS

STA 645 - COMPUTATIONAL THEORY AND DATA VISUALIZATION

STA 646 - FOUNDATIONS OF PROBABILITY AND INFERENCE

STA 647 - STATISTICAL COMPUTING WITH SAS

STA 648 - REGRESSION METHODS

STA 649 - DESIGN OF EXPERIMENTS

STA 650 - APPLIED MULTIVARIATE STATISTICS

STA 651 - ADVANCED PROGRAMMING WITH R

STA 652 - ADVANCED STATISTICAL MODELING

STA 653 - CLINICAL TRIALS

STA 654 - APPLIED BAYESIAN INFERENCE

STA 655 - INTRODUCTION TO STATISTICAL GENETICS

STA 656 - STATISTICAL QUALITY CONTROL

STA 659 - ADVANCED STATISTICAL METHODS

STA 661 - MULTIVARIATE ANALYSIS I

STA 662 - RESAMPLING AND RELATED METHODS

STA 665 - ANALYSIS OF CATEGORICAL DATA

STA 671 - REGRESSION AND CORRELATION

STA 672 - DESIGN AND ANALYSIS OF EXPERIMENTS

STA 673 - DISTRIBUTION-FREE STATISTICAL INFERENCE AND ANALYSIS OF CATEGORICAL DATA

STA 674 - REGRESSION ANALYSIS AND DESIGN OF EXPERIMENTS

STA 675 - SURVEY SAMPLING

STA 676 - QUANTITATIVE INHERITANCE IN PLANT POPULATIONS

STA 677 - APPLIED MULTIVARIATE METHODS

STA 678 - STATISTICAL COMPUTATIONAL THEORY AND DATA VISUALIZATION: R AND SAS

STA 679 - DESIGN AND ANALYSIS OF EXPERIMENTS II

STA 681 - BIOSTATISTICS II

STA 690 - SEMINAR IN STATISTICS

STA 691 - SPECIAL TOPICS IN THE PLANNING AND ANALYSIS OF EXPERIMENTS (SUBTITLE REQUIRED)

STA 692 - STATISTICAL CONSULTING

STA 693 - BIOSTATISTICAL PRACTICUM

STA 695 - SPECIAL TOPICS IN STATISTICAL THEORY (SUBTITLE REQUIRED)

STA 700 - FOUNDATIONS OF PROBABILITY AND INFERENCE

STA 701 - ADVANCED STATISTICAL INFERENCE I

STA 702 - ADVANCED STATISTICAL INFERENCE II

STA 703 - ADVANCED PROBABILITY

STA 705 - ADVANCED COMPUTATIONAL INFERENCE

STA 707 - ADVANCED DATA ANALYSIS

STA 709 - ADVANCED SURVIVAL ANALYSIS

STA 715 - READINGS IN STATISTICS AND PROBABILITY (SUBTITLE REQUIRED)

STA 748 - MASTER'S THESIS RESEARCH

STA 749 - DISSERTATION RESEARCH

STA 767 - DISSERTATION RESIDENCY CREDIT

STA 768 - RESIDENCE CREDIT FOR MASTER'S DEGREE

STA 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

STO 540 - SOCIAL IMPLICATIONS OF TECHNOLOGICAL INNOVATIONS IN AGRICULTURE, FOOD AND ENVIRONMENT

STO 601 - PROGRAM DEVELOPMENT AND EVALUATION

STO 602 - SCIENCE LITERACY AND TRANSLATION

STO 603 - RESEARCH METHODS

STO 650 - CAPSTONE IN SCIENCE TRANSLATION AND OUTREACH

STO 784 - INDEPENDENT STUDIES IN SCIENCE TRANSLATION AND OUTREACH

SUR 815 - FIRST-YEAR ELECTIVE, SURGERY

SUR 825 - SECOND-YEAR ELECTIVE, SURGERY

SUR 849 - ELECTIVE: EXTRAMURAL ROTATION IN SURGERY

SUR 850 - ACTING INTERNSHIP: PEDIATRIC SURGERY

SUR 851 - ELECTIVE: ORTHOPAEDIC SURGERY

SUR 852 - ACTING INTERNSHIP IN PEDIATRIC SURGERY

SUR 855 - ACTING INTERNSHIP: PLASTIC SURGERY

SUR 856 - ACTING INTERNSHIP: SURGICAL ONCOLOGY

SUR 857 - ACTING INTERNSHIP IN TRANSPLANTATION SURGERY

SUR 859 - ACTING INTERNSHIP: COLORECTAL SURGERY

SUR 860 - ELECTIVE: DERMATOLOGY

SUR 862 - ACTING INTERNSHIP IN GENERAL SURGERY

SUR 863 - ACTING INTERNSHIP: CARDIOTHORACIC SURGERY

SUR 865 - ACTING INTERNSHIP IN SURGICAL INTENSIVE CARE

SUR 866 - ELECTIVE: RESEARCH IN SURGERY

SUR 867 - ELECTIVE IN MICROSURGERY

SUR 868 - ACTING INTERNSHIP: TRANSPLANT SURGERY

SUR 869 - ACTING INTERNSHIP IN TRAUMA SURGERY

SUR 870 - ELECTIVE: AUDIOLOGY

SUR 871 - FOURTH YEAR CLERKSHIP IN SURGERY

SUR 872 - ELECTIVE: OUTPATIENT SURGICAL SPECIALTIES

SUR 873 - ACTING INTERNSHIP: VASCULAR SURGERY

SUR 874 - ACTING INTERNSHIP: EMERGENCY GENERAL SURGERY ICU

SUR 875 - MAXILLOFACIAL DISEASE FOR THE HEALTH CARE PROFESSIONAL

SUR 876 - ACTING INTERNSHIP IN ORAL AND MAXILLOFACIAL SURGERY

SUR 877 - ACTING INTERNSHIP: VA GENERAL SURGERY

SUR 878 - ACTING INTERNSHIP: GOOD SAMARITAN GENERAL SURGERY

SUR 890 - ELECTIVE: SURGERY OFF-SITE

SUR 901 - ACTING INTERNSHIP: COMMUNITY SURGERY IN MOREHEAD

SUR 931 - ACTING INTERNSHIP: GENERAL SURGERY IN BOWLING GREEN

SUR 932 - ACTING INTERNSHIP: VASCULAR SURGERY IN BOWLING GREEN

SUR 933 - ACTING INTERNSHIP: CARDIOTHORACIC SURGERY IN BOWLING GREEN

SUR 934 - ACTING INTERNSHIP: PLASTIC SURGERY IN BOWLING GREEN

SUR 935 - ELECTIVE: DERMATOLOGY IN BOWLING GREEN

SURM 875 - MAXILLOFACIAL DISEASE FOR THE HEALTH CARE PROFESSIONAL

SURM 999 - TITLE NEEDED

SW 505 - CHILD WELFARE SERVICES

SW 511 - GENOCIDE: INTERVENTION WITH SURVIVORS & GLOBALPREVENTION

SW 512 - SOCIAL WORK IN THE CRIMINAL JUSTICE SYSTEM

SW 514 - ALCOHOLISM AND PROBLEM DRINKING

SW 515 - MEDICAL AND PSYCHOSOCIAL ASPECTS OF DISABILITIES: PHYSICAL DISABILITY

SW 516 - MEDICAL AND PSYCHOSOCIAL ASPECTS OF DISABILITIES: PSYCHIATRIC DISABILITIES

SW 518 - INTERNATIONAL SOCIAL WORK

SW 519 - UNDERSTANDING INTIMATE PARTNER VIOLENCE

SW 520 - UNDERSTANDING THE DIVERSE NEEDS OF CHILDREN AND ADOLESCENTS

SW 523 - SOCIAL PERSPECTIVES ON RACISM AND ETHNIC PREJUDICES IN AMERICA

SW 524 - SUBSTANCE MISUSE

SW 530 - RESPONDING TO MILITARY AND VETERAN POPULATIONS

SW 550 - CHILD SEXUAL ABUSE: ASSESSMENT AND INTERVENTION

SW 571 - SOCIAL WORK AND THE LAW

SW 580 - TOPICAL SEMINAR IN SOCIAL WORK

SW 600 - SOCIAL WORK PRACTICE WITH INDIVIDUALS AND FAMILIES

SW 602 - THEORY-INFORMED SOCIAL WORK PRACTICE WITH GROUPS

SW 613 - URBAN ECOLOGY AND AGING

SW 616 - SOCIAL WORK PRACTICE IN SCHOOL SETTINGS

SW 617 - FAMILY VIOLENCE: SOCIAL WORK INTERVENTIONS

SW 618 - SOCIAL WORK PRACTICE WITH GAY AND LESBIAN PEOPLE

SW 620 - UNDERSTANDING THEORY IN SOCIAL WORK PRACTICE

SW 621 - UNDERSTANDING POVERTY, INEQUALITY, AND INJUSTICE: FOUNDATIONS OF PRACTICE

SW 623 - SOCIAL WORK PRACTICE WITH GROUPS

SW 624 - PERSPECTIVES ON HUMAN SEXUALITY

SW 625 - INTRODUCTION TO SOCIAL WORK: PROFESSIONAL BEHAVIOR AND ETHICS

SW 626 - FORENSIC MENTAL HEALTH: EVALUATION AND TREATMENT

SW 630 - INTRODUCTION TO SOCIAL WELFARE POLICY AND SERVICES

SW 636 - SOCIAL WORK PRACTICE WITHIN ORGANIZATIONS AND COMMUNITIES I

SW 640 - FOUNDATION PRACTICUM

SW 641 - FOUNDATION PRACTICUM INTEGRATIVE SEMINAR II

SW 642 - PSYCHOLOGICAL ASPECTS OF HUMAN AGING

SW 650 - RESEARCH METHODS IN SOCIAL WORK

SW 680 - SPECIAL PROBLEMS IN SOCIAL WORK PRACTICE

SW 701 - ASSET-BASED AND SUSTAINABLE COMMUNITY ASSESSMENT AND DEVELOPMENT

SW 702 - SUBSTANCE MISUSE, VIOLENCE AND RISK MANAGEMENT

SW 722 - PSYCHOPATHOLOGY FOR SOCIAL WORK PRACTICE

SW 724 - ADVANCED PRACTICE WITH INDIVIDUALS AND FAMILIES: ASSESSMENT AND TREATMENT PLANNING

SW 726 - PSYCHOPATHOLOGY FOR CLINICAL SOCIAL WORK

SW 728 - COMPARATIVE TREATMENT MODALITIES

SW 730 - EVIDENCE-BASED PRACTICE FOR SOCIAL WORKERS

SW 731 - ADVANCED SOCIAL WELFARE POLICY AND ANALYSIS

SW 733 - SOCIAL WORK PRACTICE WITHIN ORGANIZATIONS AND COMMUNITIES II: INTERVENTION AND EVALUATION

SW 734 - CLINICAL SOCIAL WORK INTEGRATIVE SEMINAR

SW 735 - COMMUNITY AND SOCIAL DEVELOPMENT INTEGRATIVE SEMINAR

SW 737 - NON-PROFIT MANAGEMENT IN HUMAN SERVICE ORGANIZATIONS

SW 738 - GUIDED INDEPENDENT WORK: MILITARY AND VETERAN POPULATIONS

SW 740 - ADVANCED SOCIAL WORK PRACTICUM I

SW 741 - ADVANCED SOCIAL WORK PRACTICUM II

SW 749 - DISSERTATION RESEARCH

SW 750 - APPLIED RESEARCH METHODS IN SOCIAL WORK

SW 767 - DISSERTATION RESIDENCY CREDIT

SW 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

SW 770 - DOCTORAL RESEARCH I

SW 771 - DOCTORAL RESEARCH II

SW 772 - INTRODUCTION TO QUALITATIVE RESEARCH

SW 773 - DOCTORAL STATISTICS II

SW 774 - MENTAL HEALTH RESEARCH METHODS

SW 780 - INDEPENDENT WORK

SW 781 - HUMAN BEHAVIOR & CHANGE THEORIES IN SOCIAL WORK PRACTICE

SW 782 - ADVANCED ANALYSIS OF SOCIAL PROBLEMS, POLICY AND PRACTICE

SW 783 - THEORY DEVELOPMENT IN THE SOCIAL WORK PROFESSION

SW 784 - ETHICS, SOCIAL WORK AND SOCIETY

SW 785 - PROSEMINAR IN SOCIAL WORK RESEARCH

SW 786 - DOCTORAL RESEARCH PRACTICUM

SW 787 - DOCTORAL TEACHING PRACTICUM

SW 788 - RESEARCH IN SOCIAL WORK SEMINAR

SW 790 - SEMINAR IN TEACHING AND LEARNING

SW 795 - ADVANCED DOCTORAL SEMINAR IN SOCIAL WORK: (SUBTITLE REQUIRED)

SW 852 - INTRODUCTION TO DOCTORAL STUDIES

SW 853 - CONTEMPORARY SOCIAL WORK CONCEPTS

SW 855 - SUPERVISION, ETHICS AND PROFESSIONAL PRACTICE

SW 856 - THE SCIENCE OF SOCIAL WORK

SW 859 - STATISTICS FOR SOCIAL WORKERS

SW 860 - PROGRAM EVALUATION METHODS IN SOCIAL WORK

SW 861 - BUSINESS AND TECHNOLOGY IN SOCIAL WORK PRACTICE

SW 862 - EFFECTIVELY ENGAGING ORGANIZATIONS AND COMMUNITIES

SW 863 - ADVANCED ADMINISTRATIVE AND SUPERVISORY PRACTICE

SW 864 - ADVANCED POLICY FOR SOCIAL WORK PRACTICE

SW 865 - FOUNDATIONAL THEORY

SW 871 - ADVANCED PSYCHOPATHOLOGY AND PSYCHOPHARMACOLOGY

SW 872 - CLINICAL PRAXIS THEORY

SW 873 - NEUROSCIENCE FOR CLINICAL PRACTICE

SW 875 - TEACHING & LEARNING FOR SOCIAL WORK EDUCATORS

SW 876 - CRITICAL ISSUES IN SOCIAL WORK EDUCATION

SW 877 - ENGAGING SCHOLARSHIP IN SOCIAL WORK EDUCATION

SW 881 - TRAUMA INFORMED ASSESSMENT AND DIAGNOSES

SW 882 - EVIDENCE BASED METHODS FOR COMMON MBH DIAGNOSES

SW 892 - COLLOQUIUM I

SW 893 - JUSTICE INFORMED SOCIAL WORK PRACTICE

SW 894 - COLLOQUIUM II

TA PROG - FINE ARTS SUMMER PROGRAM COMPLETION WAIVER

TA 530 - EXPERIMENT IN DIRECTING

TA 690 - PRODUCTION PRACTICUM

TA 691 - PERFORMANCE PRACTICUM

TA 692 - DIRECTING/DRAMATURGY PRACTICUM

TOX 409G - TOXICOLOGY AND HUMAN HEALTH

TOX 508 - RESEARCH METHODS IN TOXICOLOGY

TOX 509 - ENVIRONMENTAL AND REGULATORY TOXICOLOGY

TOX 560 - ECOTOXICOLOGY

TOX 600 - ETHICS IN SCIENTIFIC RESEARCH

TOX 616 - BIOLOGY AND THERAPY OF CANCER

TOX 645 - NEUROTOXICOLOGY

TOX 649 - ADVANCED MOLECULAR PHARMACOLOGY

TOX 650 - CELLULAR AND HISTOTOXICOLOGY

TOX 663 - DRUG METABOLISM AND DISPOSITION

TOX 670 - CHEMICAL CARCINOGENESIS

TOX 680 - MOLECULAR TOXICOLOGY AND CARCINOGENESIS

TOX 690 - PRACTICAL ANALYTICAL TOXICOLOGY

TOX 748 - MASTER'S THESIS RESEARCH

TOX 749 - DISSERTATION RESEARCH

TOX 767 - DISSERTATION RESIDENCY CREDIT

TOX 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

TOX 769 - RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE

TOX 770 - TOXICOLOGY AND CANCER BIOLOGY SEMINAR

TOX 780 - SPECIAL PROBLEMS IN TOXICOLOGY

TOX 790 - RESEARCH IN TOXICOLOGY AND CANCER BIOLOGY

TOX 800 - FUNDAMENTALS IN FORENSIC SCIENCE

TOX 810 - COMMUNICATING IN THE FORENSIC SCIENCE PROFESSION

TOX 820 - PREPARING PROFESSIONALS IN FORENSIC SCIENCE AND ANALYTICAL GENETICS

TOX 830 - ADVANCED HUMAN GENETICS

TOX 840 - FORENSIC SCIENCE STANDARDS AND PRACTICES

TOX 860 - FORENSIC AND ANALYTICAL TOXICOLOGY

TOX 880 - ETHICS AND PROFESSIONAL PRACTICE IN FORENSIC SCIENCE AND ANALYTICAL DNA

TOX 910 - FORENSIC AND ANALYTICAL DNA

TOX 920 - INSTRUMENTAL TECHNIQUES IN FORENSIC CHEMISTRY

TOX 980 - INTERNSHIP IN FORENSIC TOXICOLOGY AND ANALYTICAL GENETICS

TSL 515 - ENGLISH LANGUAGE DEVELOPMENT IN THE CONTENT CLASSROOM

TSL 560 - LITERACY DEVELOPMENT IN THE ESL CLASSROOM

TSL 597 - ESL TEACHING PRACTICUM

TSL 675 - ENGLISH GRAMMAR: ANALYSIS & PEDAGOGY

TSL 697 - ESL INTERNSHIP

TSM 461G - BIOMETEOROLOGY

UED 501 - INTRODUCTION TO URBAN AND ENVIRONMENTAL DESIGN

UED 511 - URBAN AND ENVIRONMENTAL DESIGN STUDIO PRIMER

UED 551 - SPECIAL TOPICS IN URBAN AND ENVIRONMENTAL DESIGN I

UED 561 - SPECIAL TOPICS IN URBAN AND ENVIRONMENTAL DESIGN II

UED 601 - URBAN AND ENVIRONMENTAL DESIGN STUDIO I

UED 602 - URBAN AND ENVIRONMENTAL DESIGN STUDIO II

UED 611 - VISUALIZATION AND REPRESENTATION

UED 612 - RESEARCH DESIGN AND METHODS IN URBAN AND ENVIRONMENTAL DESIGN

UED 651 - HISTORY AND THEORY OF URBAN AND ENVIRONMENTAL DESIGN

UED 701 - URBAN AND ENVIRONMENTAL DESIGN PROJECT

UED 711 - URBAN AND ENVIRONMENTAL DESIGN THESIS

URO 849 - ELECTIVE: EXTRAMURAL ROTATION IN UROLOGY

URO 854 - ACTING INTERNSHIP: UROLOGY

URO 931 - ACTING INTERNSHIP: UROLOGY IN BOWLING GREEN

VS 500 - ADVANCED EQUINE REPRODUCTION

VS 507 - ADVANCED HORSE GENETICS

VS 575 - CURRENT LITERATURE IN VETERINARY PARASITOLOGY

VS 597 - SPECIAL TOPICS IN VETERINARY SCIENCE

VS 600 - ETHICS IN SCIENTIFIC RESEARCH

VS 650 - CELLULAR AND HISTOTOXICOLOGY

VS 690 - PRACTICAL ANALYTICAL TOXICOLOGY

VS 748 - MASTER'S THESIS RESEARCH

VS 749 - DISSERTATION RESEARCH

VS 767 - DISSERTATION RESIDENCY CREDIT

VS 768 - RESIDENCE CREDIT FOR THE MASTER'S DEGREE

VS 769 - RESIDENCE CREDIT FOR DOCTOR'S DEGREE

VS 770 - VETERINARY SCIENCE SEMINAR

VS 777 - CURRENT LITERATURE IN EQUINE REPRODUCTION

VS 781 - CORRELATIVE PATHOLOGY

VS 782 - ADVANCED VIROLOGY

VS 785 - ADVANCED VETERINARY PARASITOLOGY

VS 786 - ADVANCED VETERINARY PATHOLOGY

VS 791 - TECHNIQUES IN VETERINARY MICROBIOLOGY

VS 792 - TECHNIQUES IN GENERAL VETERINARY PATHOLOGY

WRD 412G - ADVANCED DOCUMENTARY PRODUCTION

WRD 569 - COMPOSING ORAL HISTORY: SUBTITLE REQUIRED

WRD 612 - ETHICAL AND LEGAL ISSUES IN TECHNICAL WRITING

WRD 614 - VISUAL RHETORIC AND PERSUASION

WRD 702 - PROFESSIONAL AND TECHNICAL WRITING

WRD 704 - TECHNICAL EDITING

College of Agriculture, Food and Environment

For more information about the College of Agriculture, Food and Environment visit their website at <https://www.ca.uky.edu/> .

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Graduate Certificate

Family and Consumer Sciences Certificate

The Family and Consumer Sciences graduate certificate program provides students with the knowledge and skills to positively impact the quality of individual and family life. The coursework provides students with the

ability to amplify critical-thinking skills to address problems in diverse family, community, and work environments. Program graduates will enhance capacity-building skills that empower individuals and families to thrive in an ever-changing society. The 12-hour certificate is available to graduate students, as well as to practicing professionals and may be taken as a stand-alone program or as a part of a graduate degree program. The Family and Consumer Sciences graduate certificate is designed to partially meet the elective concentration component of the MS in Science Translation and Outreach.

Positive Youth Development Certificate

The graduate certificate in Positive Youth Development (PYD) is designed to provide students with a background in PYD frameworks and how these can be used to create intentional learning experiences in non-formal educational situations. This 12 credit-hour certificate includes 9 hours of required courses and 3 hours in an elective selected by the student. Completion of this program provides basic competency in the science of PYD at the graduate level along with documentation of their abilities. The certificate is accessible to participants from a wide range of disciplines and backgrounds and is available fully online. The certificate will provide students with the knowledge base they need to demonstrate an understanding and commitment to PYD principles and their intentional inclusion in non-formal learning experiences.

Master of Science

Science Translation and Outreach, MS

The College of Agriculture, Food, and Environment offers a fully online Master of Science (MS) degree in Science Translation and Outreach (Plan B Non-thesis option).

This transdisciplinary non-thesis Master of Science degree program builds student capacity to:

- Assess public needs and interests with respect to agriculture, food and environment
- Identify, sort and interpret credible scientific information from diverse fields relevant to public concerns
- Use scientific information to create successful programs in applied research and outreach which effectively address public concerns.

Admission Requirements

- Completion of an undergraduate degree
- One to two-page resume or CV
- Personal statement describing your background and interest in the program
- Official transcripts from all post-secondary studies
- Three letters of recommendation

Degree Requirements

- Science Translation and Outreach students complete 12 hours of core courses and 18 hours of elective courses.
- You will create your individualized plan of study with the help of a faculty committee and culminate your degree with a real-world capstone outreach or research project.
- Four core courses:
 - STO 601 PROGRAM DEVELOPMENT AND EVALUATION (3 credit hours; CLD 665/SOC 665)
 - STO 602 SCIENCE LITERACY AND TRANSLATION (3 credit hours)
 - STO 603 RESEARCH METHODS (3 credit hours)
 - STO 650 CAPSTONE IN SCIENCE TRANSLATION AND OUTREACH (3 credit hours)
 - Elective courses are selected and justified as a part of a personalized plan of study with the approval of a student's advisory committee and the STO Director of Graduate Studies.
- <https://sto.ca.uky.edu/>

Department of Agricultural Economics

Doctor of Philosophy

Agricultural Economics, PhD

The Department of Agricultural Economics provides programs leading to the degrees of Master of Science and the Doctor of Philosophy. Graduate Faculty in the department provide areas of emphasis in agricultural policy, price analysis, agricultural marketing, agribusiness, farm management, domestic economic development, and production economics. Students must complete a core of courses in agricultural economics, economics and statistics.

Students holding degrees in agricultural economics are employed by academic institutions, local, state, and federal agencies that deal with agriculture, natural resources and economic development; private firms in the agricultural and business sectors; and agencies and governments of foreign countries. These agricultural economists conduct research, develop extension services, teach classes, and serve as managers and administrators in various types of firms and agencies.

Admission Requirements

Students entering the Ph.D. program are expected to have the following courses: at least a two-course calculus sequence, M.S. level microeconomic theory, and statistics theory. Some of these courses may be taken during the student's first semester. A Master's degree in a relevant discipline is generally required for entry into the Ph.D. program. In exceptional cases a student may be admitted directly to the Ph.D. program with only a Bachelor's degree. There are no minimum GPA or GRE requirements beyond those of the Graduate School, but such information, along with letters of recommendation, is used qualitatively in the admission decision.

Degree Requirements

In addition to the course work requirements, students in the Ph.D. program are required to take a comprehensive examination in microeconomics administered by the Department of Economics. Students also must complete a second-year research paper requirement as part of the preliminary examination requirements. The student must defend a dissertation prospectus during the preliminary oral examination. The ability to conduct original research in agricultural economics, documented through the completion of a dissertation, is required.

Graduate students have considerable flexibility to structure their program with respect to course work and research topics consistent with individual interests. Each student has a major professor and an advisory committee to assist in course work selection and in the thesis and dissertation research.

A graduate handbook is available that provides information regarding program content, degree options and available financial assistance.

Master of Science

Agricultural Economics, MS

The Department of Agricultural Economics provides programs leading to the degrees of Master of Science and the Doctor of Philosophy. Graduate Faculty in the department provide areas of emphasis in agricultural policy, price analysis, agricultural marketing, agribusiness, farm management, domestic economic development, and production economics. Students must complete a core of courses in agricultural economics, economics and statistics.

Students holding degrees in agricultural economics are employed by academic institutions, local, state, and federal agencies that deal with agriculture, natural resources and economic development; private firms in the agricultural and business sectors; and agencies and governments of foreign countries. These agricultural economists conduct research, develop extension services, teach classes, and serve as managers and administrators in various types of firms and agencies.

Admission Requirements

Students entering the M.S. program are expected to have at least one course in each of the following areas: intermediate microeconomics, calculus, and statistics. An undergraduate degree in economics is advantageous, as is a good background in mathematics. There are no minimum GPA or GRE requirements beyond those of the Graduate School, but such information, along with letters of recommendation, is used qualitatively in the admission decision.

Degree Requirements

The master's program is offered in either Plan A or Plan B. The thesis option (Plan A) requires a minimum of 30 hours of graduate credit, a research thesis and an oral final exam. Plan B requires a minimum of 36 hours of graduate credit and an oral final exam.

Graduate students have considerable flexibility to structure their program with respect to course work and research topics consistent with individual interests. Each student has a major professor and an advisory committee to assist in course work selection and in the thesis and dissertation research.

A graduate handbook is available that provides information regarding program content, degree options and available financial assistance.

Department of Animal and Food Sciences

Doctor of Philosophy

Animal and Food Sciences, PhD

The Doctor of Philosophy degree is available in Animal and Food Sciences. Degree programs in Animal & Food Sciences provide advanced study and are divided into the disciplinary areas of animal nutrition, animal reproduction, reproductive physiology, or food science. Special interests in beef or dairy cattle, horses, poultry, sheep and swine may be pursued within many of these areas. Programs in food science offer specialization in dairy technology, food chemistry, food microbiology, food safety, meat biochemistry, and meat processing.

The Ph.D. in Animal & Food Science (PhDASC) degree requires an M.S. plus 18 additional credit hours.

Admission Requirements

- Applicants to the Ph.D. program must be in the process of completing, or have already completed, an M.S. degree or equivalent. They must have completed a four-year degree at an accredited institution of higher education, must have achieved at least a 3.00 GPA for all undergraduate courses, and must submit scores from the verbal, quantitative, and analytical portions of the Graduate Record Exam (GRE). Applicants must have completed; 1 semester calculus or physics, 3 semesters biology/ physiology, 3 semesters chemistry (including 1 semester of organic chemistry or biochemistry). Additional courses in physiology, cell biology, microbiology, and anatomy are encouraged.

Degree Requirements

- ASC 771 ANIMAL SCIENCE SEMINAR Section 1
- ASC 771 ANIMAL SCIENCE SEMINAR Section 2

<http://afs.ca.uky.edu/students/graduate>

Master of Science

Animal and Food Sciences, MS

The degree of Master of Science is available in Animal & Food Sciences. Degree programs in Animal & Food Sciences provide advanced study and are divided into the disciplinary areas of animal nutrition, reproduction, physiology, and food science. Special interests in beef or dairy cattle, horses, poultry, sheep and swine may be pursued within many of these areas. Programs in food science offer specialization in food chemistry, food microbiology, food safety, meat biochemistry, and meat processing.

The MSASC degree is available in two options:

- Plan A: 30 credits, including 6 credits of thesis research, plus a Master's thesis.
- Plan B: 36 credits

Admission Requirements

- Applicants to the Master's program must have completed a four-year degree at an accredited institution of higher education, must have achieved at least a 3.00 GPA for all undergraduate courses, and must submit scores from the verbal, quantitative, and analytical portions of the Graduate Record Exam (GRE). Applicants must have completed; 1 course calculus or physics, 3 courses biology/ physiology, 3 courses chemistry (including 1 organic chemistry or biochemistry). Additional courses in physiology, cell biology, microbiology, and anatomy are encouraged.

Degree Requirements

- ASC 771 ANIMAL SCIENCE SEMINAR Section 1
- ASC 771 ANIMAL SCIENCE SEMINAR Section 2

<http://afs.ca.uky.edu/students/graduate>

Department of Biosystems and Agricultural Engineering

Doctor of Philosophy

Biosystems and Agricultural Engineering, PhD

The objectives of the Biosystems and Agricultural Engineering graduate program are to develop and strengthen:

- the ability to plan and conduct research and design involving the application of engineering science to biological and agricultural systems.
- an understanding of mathematical, physical, and biological sciences that enables critical assessment of scientific literature in these and related fields.
- the skills required to use precision instruments, techniques and computers in research and design.
- the ability to make sound engineering and management decisions.
- the ability to teach college level courses in Biosystems and Agricultural Engineering, particularly at the doctoral level.

Admission Requirements

Admission into the Ph.D. graduate program of the Biosystems and Agricultural Engineering Department requires the concurrence of the Department Graduate Committee, the Director of Graduate Studies, and the Department Chair, and the availability of an advisor for the student. The Biosystems and Agricultural Engineering Graduate Committee reviews the applicant's previous graduate record, three letters of recommendation, resume, statement of professional objective, and transcripts with special emphasis given to the science and mathematics area. The department requires a minimum grade point average of 3.2 on all previous graduate work for unconditional admission. Exceptions to these requirements are considered on a case-by-case basis, taking into account the materials described above as well as GRE scores. Ph.D. students are admitted into candidacy after they have successfully completed the Qualifying Exam.

Degree Requirements

Graduate students will combine courses in Biosystems and Agricultural Engineering, other engineering fields, the physical sciences, and the biological sciences to develop a program of study that facilitates these objectives. The advanced degrees, however, are primarily research degrees awarded for significant creative research accomplishment, not for the completion of a specified number of courses. Therefore, the program normally concentrates on a strong dissertation problem completed under the supervision of the graduate faculty of the department. A design-oriented, non-thesis option is also available for the master's degree.

Graduate Certificate

Stream and Watershed Science Certificate

The Stream and Watershed Science graduate certificate provides students with an understanding of the complex physical, biological and social systems involved in stream and watershed related issues. The certificate has an interdisciplinary focus and is administered by faculty in Biosystems and Agricultural Engineering with an advisory committee consisting of faculty representatives from the College of Agriculture, Food and Environment, College of Arts and Sciences, and College of Engineering; the Center for Applied

Energy Research; the Gatton College of Business and Economics; and the Graduate School. Students may earn the certificate while making normal progress towards attainment of an MS, MA or PhD degree or while enrolled in post-baccalaureate status.

Master of Science in Biosystems and Agricultural Engineering

Biosystems and Agricultural Engineering, MSBAE

The objectives of the Biosystems and Agricultural Engineering graduate program are to develop and strengthen:

- the ability to plan and conduct research and design involving the application of engineering science to biological and agricultural systems.
- an understanding of mathematical, physical, and biological sciences that enables critical assessment of scientific literature in these and related fields.
- the skills required to use precision instruments, techniques and computers in research and design.
- the ability to make sound engineering and management decisions.
- the ability to teach college level courses in Biosystems and Agricultural Engineering, particularly at the doctoral level.

Both a Plan A (Thesis) and Plan B (Non-thesis) are available.

Admission Requirements

Admission into the M.S. graduate program of the Biosystems and Agricultural Engineering Department requires the concurrence of the Department Graduate Committee, and the Director of Graduate Studies, and the Department Chair and the availability of an advisor for the student. The Biosystems and Agricultural Engineering Graduate Committee reviews the applicant's three letters of recommendation, resume, statement of professional objective and transcripts with special emphasis given to the science and mathematics area. The department requires a minimum grade point average of 2.8 and a GRE score of at least 1500. An engineering B.S. degree from an ABET-accredited engineering program (or international equivalent) is generally required, however, non-engineering students may be admitted by agreeing to take additional undergraduate courses specified by the graduate committee. Exceptions to these requirements are considered on a case-by-case basis, taking into account the materials described above as well as GRE scores.

Degree Requirements

Graduate students will combine courses in Biosystems and Agricultural Engineering, other engineering fields, the physical sciences, and the biological sciences to develop a program of study that facilitates these

objectives. The advanced degrees, however, are primarily research degrees awarded for significant creative research accomplishment, not for the completion of a specified number of courses. Therefore, the program normally concentrates on a strong thesis or dissertation problem completed under the supervision of the graduate faculty of the department. A design-oriented, non-thesis option is also available for the master's degree.

Plan A minimum requirements: Complete a minimum of 30 hours of graduate courses to include, if desired, no more than 6 credit hours of BAE 768, and submit a Thesis.

Plan B minimum requirements: Complete a minimum of 30 hours of graduate courses.

Department of Community and Leadership Development

Master of Science in Community and Leadership Development

Community and Leadership Development, MSCLDE

The Master's of Science in Community and Leadership Development (CLD) at the University of Kentucky is a unique multidisciplinary program that prepares students for a broad range of careers including continuing on for a Ph.D. in several different disciplines (e.g., Agricultural Education, Agricultural Leadership and Development, Communications, Rural Sociology).

Our curriculum integrates a solid foundation in social science theory and research methods. Students are challenged to understand and then apply both theory and methods in diverse contexts as both independent and collaborative scholar/professionals.

Our graduate students are expected to be engaged professionals participating in scholarly organizations, social change initiatives, community development associations, or community media campaigns. They should demonstrate the depth and breadth of their knowledge and skills through applied service or research projects. Finally, students are expected to contribute their expertise as academic, organizational and community leaders.

Our program offers two options: the Master's of Science in CLD as well as the Master's of Science with Initial Certification (MIC) for Agricultural Education (Grade 5-12).

Either degree may be obtained on a thesis basis (Plan A) or a non-thesis basis (Plan B).

Admission Requirements

Applicants for the MS-CLD program without MIC Option

Candidates for the MS-CLD program must have a minimum undergraduate GPA of 2.75 and graduate GPA of 3.0 to be eligible for admission to the Graduate School. International students must take the TOEFL examination, with a minimum score of 550 (213 on the computer-based test) required by the Graduate School.

Applicants for the MIC Option

Candidates in the graduate initial certification program must apply for admission to the Graduate School and to the Teacher Education Program. They must have a minimum undergraduate GPA of 2.75 to be eligible for admission to the Graduate School. In addition, they must submit GRE scores with minimum scores of 150 on verbal reasoning, 143 on quantitative reasoning and 4.0 on analytic writing. If GRE scores fall below these levels, they must submit passing scores on PRAXIS Core Academic Skills for Educators (CASE) for the deficient portions. A minimum 156 score on the reading portion, a minimum 150 score on the mathematics portion, and a minimum 162 score on the writing portion are required.

Materials required for Application

- Cover Letter summarizing motivation for pursuing MS in CLD and whether the candidate is seeking department funding.
- Current Resume/CV
- Narrative statement of intent that includes a description of:
 - Research interests and professional goals
 - How the Master's program in CLD will support these goals, with a specific discussion of how candidate interests and experiences align with faculty expertise or program strengths
 - Other insights into relevant experience or perspectives for demonstrating the candidate's interest in and qualifications for the CLD program
- Undergraduate/graduate transcripts
- 3 Recommendation letters (Only 1 can be written by a CLD faculty member)
- TOEFL/IELTS scores (International applicants only)
- GRE Score (MIC Option only)

Degree Requirements

30 credit hours required for a MS-CLD or MS-CLD MIC Option. Core requirements for both options are outlined below. Students must have the cumulative GPA of 3.0 or above in order to sit for the final examination. Incoming students are informed of the graduate-school and program-specific academic policies at the orientation held before classes begin each fall. Information is also on the CLD website.

For All MS-CLD Students - Core Requirements

Course No	Course Title	Hrs.	When to take
CLD 686	Research Design	3	Year 1 Fall

CLD 684	Statistical Analysis <u>or</u> any approved method course(s)	3	Year 1 or Year 2
CLD 630	Individual & Group Dynamics	3	Year 1 or 2 Fall
CLD 610 <u>or</u> CLD 670	Experiential Education <u>or</u> Community Engagement	3	Year 1 or Year 2
CLD 671 <u>or</u> CLD 685 <u>or</u> CLD 675 <u>or</u> CLD 660	Advanced Methods of Teaching <u>or</u> Advanced Community Development Theory & Practice <u>or</u> Theoretical Foundations of Communication and Community <u>or</u> Advanced Leadership Theory & Practice	3	Year 1 or Year 2
CLD 768 <u>or</u> CLD 758	Master's Thesis Research in CLD <u>or</u> Creative Component in CLD	3	Year 2 Spring
TOTAL		18	

Students must complete a total of at least **12 credit hours** in one Enrichment Area, defined in consultation with their Advisory Committee. Sample of Enrichment Areas are:

- Non-formal and Formal Education
- Agricultural Education and other Agricultural areas of interest (with a social science emphasis - e.g., horticulture's role in urban gardening)
- Community Development
- Leadership Development
- Rural Studies
- Community Communications

For MIC Students MS-CLD - Core Requirements

Course No	Course Title	Hrs.	When to take
CLD 686	Research Design	3	Year 1 Fall
CLD 684	Statistical Analysis <u>or</u> any approved method course(s)	3	Year 1 or Year 2
CLD 630	Individual & Group Dynamics	3	Year 1 or 2 Fall
CLD 671	Advanced Methods of Teaching CTE	3	
EDP 600 / FAM 654	Life Span Human Development and Behavior/	3	

CLD 610	Experiential Education	3	Year 1 or 2 Fall
CLD 758	Creative Component in CLD	3	
TOTAL		21	

For MIC Students, certification and degree completion are two separate issues. Candidates must complete additional hours beyond the core. Although part of the certification coursework can be used toward a "General Specialty" in Agricultural Education, some required certification courses are strictly undergraduate level and will not count toward the M.S. degree. In particular, coursework in the 400 level with the "G" designation and 500-level and above courses can be used toward degree completion. Candidates' previous coursework in the content areas will be evaluated to determine additional work candidates may need to have adequate preparation in agricultural content knowledge.

Department of Dietetics and Human Nutrition

Master of Science in Nutrition and Food Systems

Nutrition and Food Systems, MSNFS

Graduate education leading to a Master of Science in Nutrition and Food Systems. There are two concentration areas, the Traditional MS and the Accelerated Coordinated Program in Dietetics. Only University of Kentucky students admitted to the Accelerated Coordinated Program in Year 3 of the undergraduate degree program (Option B in BS in Dietetics) can enter this concentration area.

The Traditional MS includes a 17-hour graduate-level core emphasizing contemporary nutrition topics, such as research methods and health behavior theories, community programming and intervention development, food systems, chronic disease diagnosis and processes related to lifestyle behaviors, statistics, and a nutrition and food systems seminar. The Accelerated Coordinated Program in Dietetics includes an 18-hour graduate-level core that emphasizes a variety of nutrition topics, such as evidence-based practices, research methods and health behavior theories, community programming and intervention development, food systems, chronic disease diagnosis and process related to lifestyle behaviors.

Admission Requirements

Admission to the MS in Nutrition and Food Systems program is selective and competitive. Students must have a relevant undergraduate degree from an accredited institution; a minimum GPA of 3.0 with conditional admittance considered; a phone or in-person interview with the Director of Graduate Studies or Department Chair; submission of a written essay, a technical scientific writing sample (student topic choice), and three letters of recommendation.

Admission to the Accelerated Coordinated Program in Dietetics is selective and competitive; students are expected to maintain a rigorous schedule in order to complete all required courses for the undergraduate and graduate degrees as well as the hours for the supervised practice within 10 semesters and three summer sessions. The Accelerated Coordinated Program Concentration Area of the MS in Nutrition and Food Systems will only be available to students who were admitted to the Accelerated Coordinated Program (Option B of BS in Dietetics) during Year 3 in the University of Kentucky BS in Dietetics program. Students must have a cumulative GPA of 3.0 to apply. The application will include a personal

statement, three letters of recommendation, and an interview. As such, this program is only available to University of Kentucky students. Students from other colleges and universities can apply for, and be admitted into, the UK MS in Nutrition and Food Systems, but only for the "Traditional MS Concentration Area."

Degree Requirements

The Master of Science program prepares students for careers in community, education, government, industry, non-profit, health care or private practice settings. A student in the Traditional MS concentration may choose the Plan A - Thesis or Plan B - Project.

Plan A - Thesis requires the 17-hour core, 7 hours of electives to explore areas of personal interest, 6 additional hours of research credit and a written thesis and oral defense.

Plan B - Project requires the 17-hour core, 13 hours of electives, 6 additional hours of special problems, and a project presentation and exam.

A student in the Accelerated Coordinated Program in Dietetics concentration area can only complete Plan B - Project. For these students, the Project requires the 18-hour core, 18 hours of electives, and 16 hours of supervised practice coursework.

Traditional MS Plan A and B Core Courses

- DHN 600 RESEARCH METHODS IN NUTRITION AND FOOD SYSTEMS (3)
- DHN 603 ADVANCED COMMUNITY PROGRAM DEVELOPMENT (3)
- DHN 605 FOOD SYSTEMS AND SOCIETY (3)
- DHN 608 CHRONIC DISEASE MANAGEMENT AND PROCESS (3)
- DHN 774 SEMINAR IN NUTRITION AND FOOD SYSTEMS (3)
- STA 671 REGRESSION AND CORRELATION (2)
- DHN 768 RESIDENCE CREDIT FOR THE MASTERS DEGREE (Plan A only) (6)
- DHN 782 SPECIAL PROBLEMS (Plan B only) (6)

A 500-level statistics course is a pre-

requisite to the graduate program and may be taken during the existing graduate program.

Accelerated Coordinated Program Courses

Core Courses

- DHN 581 APPLIED EVIDENCE-BASED PRACTICE IN DIETETICS (3)
- DHN 597 OBESITY AND FOOD INSECURITY PARADIGM: FROM CELL TO SOCIETY (3)
- DHN 598 GLOBAL FOODS, DIET AND CULTURE (3)
- DHN 605 FOOD SYSTEMS AND SOCIETY (3)
- DHN 608 CHRONIC DISEASE MANAGEMENT AND PROCESS (3)
- DHN 680 ADVANCED EVIDENCE-BASED PRACTICE IN DIETETICS (3)

Supervised Practice Courses

- DHN 720 DIETETICS SUPERVISED PRACTICE: MEDICAL NUTRITION THERAPY I (4)
- DHN 722 DIETETICS SUPERVISED PRACTICE: FOOD SERVICE SYSTEMS MANAGEMENT I (4)

- DHN 724 DIETETICS SUPERVISED PRACTICE: FOOD SERVICE SYSTEMS MANAGEMENT II (2)
- DHN 726 DIETETICS SUPERVISED PRACTICE: MEDICAL NUTRITION THERAPY II (2)
- DHN 728 DIETETICS SUPERVISED PRACTICE: COMMUNITY NUTRITION I (2)
- DHN 730 DIETETICS SUPERVISED PRACTICE: COMMUNITY NUTRITION II (2)

Elective Courses for MS NFS Concentration Areas

- DHN 607 FOOD RELATED BEHAVIORS (3)
- DHN 690 ADVANCED WORK IN DIETETICS (3)
- DHN 620 NUTRITION AND AGING (3)
- DHN 630 ADVANCED COMMUNITY NUTRITION (3)
- DHN 640 HUMAN NUTRITION: ASSESSMENT (3)
- DHN 690 ADVANCED WORK IN DIETETICS (3)
- DHN 784 SPECIAL PROBLEMS IN FINANCIAL MANAGEMENT (3)

Students may also choose appropriate electives outside the department with the permission from the instructor.

Department of Entomology

Doctor of Philosophy

Entomology, PhD

The Department of Entomology has a rich legacy of vibrant scholarship and innovative education and outreach, coupled with strong commitment to graduate education. Individual graduate programs are planned by students in consultation with their advisory committees and the Director of Graduate Studies. Entomology, like all agricultural and biological sciences disciplines, continues to evolve and integrate state of the art technology and new research perspectives with insect biology. Although departmental research is unified by a focus on insects and their arthropod relatives, many research groups creatively merge aspects of basic and applied biology. Graduate study and research opportunities are available in a diverse range of areas of entomology, including agricultural and urban entomology, biological control and integrated pest management, medical, veterinary, and public health entomology, pollinator biology and insect-plant relationships, forest entomology, and arachnology. Research covers many major fields of biology including behavior, biochemistry, ecology (including evolutionary, urban, landscape, and general ecology), genetics, neuroscience, molecular biology, physiology, toxicology, and systematics.

Graduate study and research opportunities are available in a diverse range of areas of entomology, including agricultural and urban entomology, biological control and integrated pest management, medical, veterinary, and public health entomology, pollinator biology and insect-plant relationships, forest entomology, and arachnology. Research covers many major fields of biology including behavior, biochemistry, ecology (including evolutionary, urban, landscape, and general ecology), genetics, neuroscience, molecular biology, physiology, toxicology, and systematics.

Admission Requirements

A Bachelor's degree with an undergraduate GPA of 3.0 and GPA of 3.25 in all graduate level work are required. Graduate Record Examination scores are not required. Applicants whose native language is not English must have a Test of English as a Foreign Language (TOEFL) with a minimum score of 79 on the TOEFL-iBT. A minimum overall band score of 6.5 on the International English Language Testing System (IELTS) may be used in lieu of a TOEFL score. The Program requires three letters of recommendation. Meeting the minimum requirements does not guarantee admission. These minimum requirements may be waived in exceptional cases if sufficient additional evidence is presented regarding the ability of the student to do graduate work. Admission to the Graduate Program in Entomology does not automatically guarantee financial assistance to the student.

Degree Requirements

During their first year of graduate studies Ph.D. students complete a formal written research proposal encompassing a thorough literature review, clear statement of objectives, and materials and methods of the project. A research proposal seminar will be presented to the Department upon completion of the written research proposal. An exit seminar, usually presented during the last semester of the student's tenure, is required. In addition, the following requirements must be completed:

- 36 credit hours prior to qualifying examination (Students who have completed a Masters degree can petition to waive 18 credit hours of pre-qualifying examination credits)
- STA 570 (Basic Statistical Analysis) or equivalent, or a different statistics course approved by the student's advisory committee
- Completion of courses in two of three Core Areas. Core Areas include diverse courses in 1) Insect Behavior, Ecology, Evolution and Systematics, 2) Insect Molecular Biology, Physiology and Genetics, and 3) Pest Management and Applied Ecology.
- Ph.D. candidates must take four semesters of Entomological Seminar (ENT 770), or seminars from other departments approved by the student's advisory committee
- Qualifying Examination
- Doctoral Dissertation

Master of Science

Entomology, MS

The Department of Entomology has a rich legacy of vibrant scholarship and innovative education and outreach, coupled with strong commitment to graduate education. Individual graduate programs are planned by students in consultation with their advisory committees and the Director of Graduate Studies. Entomology, like all agricultural and biological sciences disciplines, continues to evolve and integrate state of the art technology

and new research perspectives with insect biology. Although departmental research is unified by a focus on insects and their arthropod relatives, many research groups creatively merge aspects of basic and applied biology. Graduate study and research opportunities are available in a diverse range of areas of entomology, including agricultural and urban entomology, biological control and integrated pest management, medical, veterinary, and public health entomology, pollinator biology and insect-plant relationships, forest entomology, and arachnology. Research covers many major fields of biology including behavior, biochemistry, ecology (including evolutionary, urban, landscape, and general ecology), genetics, neuroscience, molecular biology, physiology, toxicology, and systematics.

Graduate study and research opportunities are available in a diverse range of areas of entomology, including agricultural and urban entomology, biological control and integrated pest management, medical, veterinary, and public health entomology, pollinator biology and insect-plant relationships, forest entomology, and arachnology. Research covers many major fields of biology including behavior, biochemistry, ecology (including evolutionary, urban, landscape, and general ecology), genetics, neuroscience, molecular biology, physiology, toxicology, and systematics.

Admission Requirements

A Bachelor's degree with an undergraduate grade point average of 3.0 and GPA of 3.25 in all graduate level work are required. Graduate Record Examination scores are not required. Applicants whose native language is not English must have a Test of English as a Foreign Language (TOEFL) with a minimum score of 79 on the TOEFL-iBT. A minimum overall band score of 6.5 on the International English Language Testing System (IELTS) may be used in lieu of a TOEFL score. The Program requires three letters of recommendation. Meeting the minimum requirements does not guarantee admission. These minimum requirements may be waived in exceptional cases if sufficient additional evidence is presented regarding the ability of the student to do graduate work. Admission to the Graduate Program in Entomology does not automatically guarantee financial assistance to the student.

Degree Requirements

M.S. Plan A

During their first year of graduate studies, M.S. Plan A students complete a formal written research proposal encompassing a thorough literature review, clear statement of objectives, and materials and methods of the project. A research proposal seminar will be presented to the Department upon completion of the written research proposal. An exit seminar, usually presented during the last semester of the student's tenure, is required. In addition, the following requirements must be completed:

- 30 credit hours, including 6 credit hours of Residence Credit for the MS degree
- STA 570 (Basic Statistical Analysis) or equivalent, or a different statistics course approved by the student's advisory committee

- Completion of courses in two of three Core Areas. Core Areas include diverse courses in 1) Insect Behavior, Ecology, Evolution and Systematics, 2) Insect Molecular Biology, Physiology and Genetics, and 3) Pest Management and Applied Ecology.
- M.S. candidates must take two semesters of Entomological Seminar (ENT 770), or seminars from other departments approved by the student's advisory committee
- MS Thesis
- Final Examination

M.S. Plan B

During their first year of graduate studies M.S. Plan B form an advisory committee. In addition, the follow requirements must be completed:

- 36 credit hours
- STA 570 (Basic Statistical Analysis) or equivalent, or a different statistics course approved by the student's advisory committee
- Completion of at least one course in each of three Core Areas. Core Areas include diverse courses in 1) Insect Behavior, Ecology, Evolution and Systematics, 2) Insect Molecular Biology, Physiology and Genetics, and 3) Pest Management and Applied Ecology.
- M.S. Plan B candidates must take two semesters of Entomological Seminar (ENT 770), or seminars from other departments approved by the student's advisory committee
- Practicum project
- Final Examination

Department of Family Sciences

Doctor of Philosophy

Family Sciences, PhD

The doctoral program is a research-based curriculum that provides a strong foundation in theory, research methods, statistics, and teaching opportunities. It is designed particularly for those desiring a research career in family science, including positions at colleges and universities, program evaluation positions in public and private settings focusing on individuals and the family, and administrative positions in public and private human services prevention and intervention.

Areas of emphasis within the doctoral program are: (a) adolescent development, (b) aging, (c) family finance and economics, and (d) family processes.

Admission Requirements

Applicants must submit a statement of clearly developed academic and research goals for the Ph.D. degree, three letters of recommendation, transcripts of all graduate and undergraduate work with a minimum grade point average (GPA) of 3.0 out of 4.0, and Graduate Record Examination (GRE) scores. Master's level practitioners, educators, and researchers in the social sciences are best suited for the doctoral program. Previous research experience is desirable, but not required. Although students generally must have a master's degree prior to admission into the doctoral program, particularly outstanding applicants who have earned a bachelor's degree but not a master's degree may be considered for admission into the doctoral program. Admissions are conducted one time each year; the application deadline is January 15 for admission Fall Semester of the same calendar year. See <https://fam.ca.uky.edu/content/doctoral-program> for details.

Degree Requirements

Credit Requirements:

- Minimal coursework requirements prior to the qualifying examination include 2 years of residency and 36 credit hours, comprised of 20 credit hours of foundational courses (if not taken in master's program), 9 hours of research methods and theory, 9 credit hours of statistics, 8 credit hours of professional development, and 15 credit hours in a specialization area.

Course requirements:

- Research Methods(minimum 9 credit hours)
- FAM 790 ADVANCED RESEARCH METHODS IN FAMILY SCIENCES (3)
- One Qualitative Method(3)
- One Quantitative Method(3)
- Statistics(minimum 9 credit hours)
- FAM 777 APPLIED STATISTICS IN FAMILY SCIENCE (4)
- Two Additional Statistics Courses(6)
- Professional Development(minimum 8 credit hours)
- FAM 775-002: Professional Development Seminar II (1)
- FAM 785 ADVANCED PROBLEMS IN FAMILY SCIENCES (teaching apprenticeship) (1)
- FAM 786 TEACHING PRACTICUM IN FAMILY SCIENCES (supervised teaching) (3)
- FAM 784 RESEARCH PRACTICUM IN FAMILY SCIENCES (qualifying exam) (3)
- Area of Specialization(minimum 15 credit hours)
- Adolescent Development
- Aging
- Family Finance and Economics
- Family Processes
- Foundational required unless approved from master's degree
- FAM 601 FAMILY PROCESSES (3 credit hours)

- FAM 652 READINGS IN FAMILY THEORY AND RESEARCH (3)
- FAM 654 THE LIFE COURSE PERSPECTIVE ON FAMILIES AND INDIVIDUALS (3)
- FAM 668 ALLOCATION OF FAMILY RESOURCES (3)
- FAM 690 RESEARCH METHODS IN FAMILY SCIENCE (3)
- FAM 775 SEMINAR IN HUMAN DEVELOPMENT AND FAMILY RELATIONS (1)
- Basic Master's-level Statistics Course(3)

Program Websites

- For an overview of the Doctoral program in Family Sciences please visit: <https://fam.ca.uky.edu/content/doctoral-program>
- Doctoral Curriculum Requirements can be found on the following website: http://fam.ca.uky.edu/sites/fam.ca.uky.edu/files/d-curriculum-requirements_4-10-18.pdf

Master of Science in Family Sciences

Family Sciences, MSFS

The family sciences master's (M.S.) program uses an integrative approach to learning about improving individual, family, and community well-being. The program prepares students for immediate employment in their chosen area, and also provides an excellent foundation for subsequent matriculation into a doctoral program.

Five emphasis areas are available in the family sciences master's program: (a) adolescent development, (b) aging, (c) couple and family therapy, (d) family finance and economics, and (e) family processes. The couple and family therapy (CFT) emphasis area is accredited by the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE).

Admission Requirements

Students must have a bachelor's degree prior to admission into the master's program. Admissions are conducted one time each year; the application deadline is January 15 for admission Fall Semester of the same calendar year. Applicants must submit a statement of their academic goals for the M.S. degree and three letters of recommendation. See <https://fam.ca.uky.edu/content/applications-and-admissions> for details.

Degree Requirements

Credit Requirements:

- Total credit hours required for non-CFT emphasis areas: 30
- Total credit hours required for CFT emphasis area: 53

Course requirements for all emphasis areas:

- FAM 601 FAMILY PROCESSES (3 credit hours)
- FAM 652 READINGS IN FAMILY THEORY AND RESEARCH (3)
- FAM 654 THE LIFE COURSE PERSPECTIVE ON FAMILIES AND INDIVIDUALS (3)
- FAM 668 ALLOCATION OF FAMILY RESOURCES (3)
- FAM 690 RESEARCH METHODS IN FAMILY SCIENCE (3)
- FAM 775 SEMINAR IN HUMAN DEVELOPMENT AND FAMILY RELATIONS (1)
- Thesis or Scholarly Project (6)

Additional requirements for CFT emphasis area:

- FAM 640 USING THE DSM IN CFT ASSESSMENT (3)
- FAM 745 FAMILIES AND CHILDREN IN PLAY THERAPY (3)
- FAM 685 PROFESSIONAL ISSUES IN COUPLE AND FAMILY INTERVENTION (3)
- FAM 686 THEORY AND METHODS IN COUPLE AND FAMILY THERAPY (3)
- FAM 740 COUPLE AND SEX THERAPY (3)
- FAM 787 SUPERVISED PRACTICE OF COUPLE/FAMILY THERAPY (10)

Electives:

- All students will work with their advisory committee to select a data analysis course (e.g., qualitative or quantitative). Students in the adolescent development, aging, family finance and economics, and family processes emphasis areas will work their advisory committee to select at least 5 credit hours in their emphasis area.
- Other than the data analysis course, students in the CFT emphasis follow a proscribed course of study.

Program Websites

- For an overview of the MS program in Family Sciences please visit: <https://fam.ca.uky.edu/content/masters-program>
- Example two-year plans can be found on the following website: <https://fam.ca.uky.edu/content/curriculum-0>

Department of Forestry and Natural Resources

Doctor of Philosophy

Forest and Natural Resource Sciences, PhD

The PhD in Forest and Natural Resource Sciences (FNRS) is offered by the Department of Forestry and Natural Resources. A goal of the Forest and Natural Resource Sciences Graduate Program is to contribute to improved forest health and management through enhanced understanding of relevant ecological and social benefits and constraints. Consequently, a student's degree program may be directed toward any of the disciplinary or interdisciplinary fields in Forest and Natural Resource Sciences, which range from molecular to landscape and societal levels. The Program's current research has particular strengths in southern Appalachian hardwood forest ecology and management, forest hydrology and watershed management, reforestation and mine reclamation, invasive species and forest health, animal ecology and management, and human dimensions including forest policy and economics.

Admission Requirements

Applicants for admission to the PhD program in Forest and Natural Resource Sciences degree program must hold (by the time of enrollment in the program) an awarded four-year baccalaureate degree from an accredited institution of higher learning. Holding a MS degree is preferred, but not required. Students with undergraduate and MS degrees in forestry or another natural resource field, natural sciences (biology or chemistry) or social sciences may be admitted to the program as long as the student has secured an advisor to mentor them. Undergraduate and graduate students are expected to have an overall grade point average of 3.00 and a minimum combined verbal and quantitative score on the Graduate Record Examination (GRE) of 297.

More detailed information concerning the Forest and Natural Resource Sciences Graduate Program's admission procedures, assistantships, and degree requirements may be obtained at <http://forestry.ca.uky.edu/forestry-graduate-program>. Specific area(s) of interest of our individual faculty members can be found at: <http://forestry.ca.uky.edu/faculty>.

Degree Requirements

Total credit hours: 36

Core requirements include: All Forest and Natural Resource Sciences graduate students take: 1) FOR 601 RESEARCH METHODS IN FORESTRY, 3 credits; 2) FOR 602 RENEWABLE NATURAL RESOURCES IN A GLOBAL PERSPECTIVE, 3 credits; 3) FOR 603 FOUNDATIONS IN FORESTRY, WILDLIFE AND NATURAL RESOURCE SCIENCES, 3 credits and 4) FOR 770 FORESTRY SEMINAR (SUBTITLE REQUIRED), three times 3 credits total.

Students focus their remaining coursework (24 credits) requirements by taking 500, 600 or 700 levels courses through various departments at UK. For more details: <http://forestry.ca.uky.edu/phd-program>

Program Websites: <http://forestry.ca.uky.edu/forestry-graduate-program>

Master of Science in Forest and Natural Resource Sciences

Forest and Natural Resource Sciences, MSFNRS

The MS in Forest and Natural Resource Sciences (FNRS) is offered by the Department of Forestry and Natural Resources. A goal of the Forest and Natural Resource Sciences Graduate Program is to contribute to improved forest health and management through enhanced understanding of relevant ecological and social benefits and constraints. Consequently, a student's degree program may be directed toward any of the disciplinary or interdisciplinary fields in Forest and Natural Resource Sciences, which range from molecular to landscape and societal levels. The Program's current research has particular strengths in southern Appalachian hardwood forest ecology and management, forest hydrology and watershed management, reforestation and mine reclamation, invasive species and forest health, animal ecology and management, and human dimensions including forest policy and economics.

Students may elect to pursue the Master of Science in Forest and Natural Resource Sciences degree under Plan A, which requires a minimum of 30 semester hours of graduate course work plus an acceptable thesis, or under a non-thesis option (Plan B), which requires a minimum of 30 semester hours of graduate course work that includes an area of specialization.

Admission Requirements

Applicants for admission to the Master of Science in Forest and Natural Resource Sciences degree program must hold (by the time of enrollment in the program) an awarded four-year baccalaureate degree from an accredited institution of higher learning. Although it is not required that an applicant's undergraduate degree be in forestry or another natural resource field, a student admitted to the program who lacks essential undergraduate courses may be required by an advisory committee to take them. Applicants are expected to have an overall undergraduate grade point average of 3.00 and a minimum combined verbal and quantitative score on the Graduate Record Examination (GRE) of 297.

More detailed information concerning the Forest and Natural Resource Sciences Graduate Program's admission procedures, assistantships, and degree requirements may be obtained at <http://forestry.ca.uky.edu/forestry-graduate-program>. Specific area(s) of interest of our individual faculty members can be found at: <http://forestry.ca.uky.edu/faculty>.

Degree Requirements

Total credit hours: 30 (Plan A), 30 (Plan B)

Core requirements include: All Forest and Natural Resource Sciences graduate students take: 1) FOR 601 RESEARCH METHODS IN FORESTRY, 3 credits; 2) FOR 602 RENEWABLE NATURAL RESOURCES IN A GLOBAL PERSPECTIVE, 3 credits and 3) FOR 770 FORESTRY SEMINAR (SUBTITLE REQUIRED) three times, 3 credits total.

Students focus their remaining coursework requirements by taking 500, 600 or 700 levels courses through various departments at UK. For more details:
See <http://forestry.ca.uky.edu/plan-A-thesis-option-masters>

Program Website: <http://forestry.ca.uky.edu/forestry-graduate-program>

Department of Plant and Soil Sciences

Doctor of Philosophy

Integrated Plant and Soil Sciences, PhD

The interdepartmental graduate program in Integrated Plant and Soil Sciences offers graduate work leading to the Doctor of Philosophy degree with specialization in Crop Science (including weed science and forages), Environmental Science and Ecosystem Ecology (including ecotoxicology, biogeochemistry, environmental chemistry, and ecosystem modeling), Horticultural Science, Plant Biology (including biochemistry, molecular biology, physiology, and seed biology), and Soil Science (biogeochemistry, chemistry, fertility, microbiology, pedology, physics, and rhizosphere science).

With their degree, students will acquire an extensive knowledge of the sciences and technology that support research, education, and technological innovation in plant, soil, and environmental sciences. They will be conversant with the literature, current concepts, and experimental and analytical methods that support research, teaching, and technological innovation in plant, soil, and environmental sciences, and in their application to agriculture and the environment. They will develop skills in critical and analytical thinking and in multiple forms of communication that may be applied to research, education, industry, government, and public service. They will have acquired those elements of professionalism necessary for rewarding and developing careers in plant, soil, and environmental sciences in research, education, production agriculture, agribusiness, government, and public service.

Graduate faculty belong to the Departments of Forestry and Natural Resources (<https://forestry.ca.uky.edu/>), Horticulture (<https://www.uky.edu/hort/>), and Plant and Soil Sciences (<https://pss.ca.uky.edu/>) in the College of Agriculture, Food, and Environment

Financial aid and the research interests of participating faculty can be found on the websites of the participating departments.

Admission Requirements

All students with strong training in science, including but not limited to baccalaureate degrees in agronomy, biology, chemistry, and horticulture are encouraged to apply. Admission to the

IPSS Program is competitive and based on the applicant's undergraduate and graduate records, performance on standardized exams if submitted, and letters of recommendation.

Applicants must have an identified research advisor prior to admission to the program.

It is expected that applicants will meet the minimum standards established by the University of Kentucky Graduate School.

Applicants will automatically be considered for departmental research assistantships, which are awarded on a competitive basis.

So that all entering Ph.D. students are at an academic level to successfully complete course requirements, the following courses or their equivalent should have been completed prior to admission: 1. Chemistry - a first semester course in organic chemistry (equivalent to CHE 230); 2. Calculus - a first semester course (equivalent to MA 113); 3. Physics - a first semester course (equivalent to PHY 201).

For PhD students with a specialization in Soil Science, the following additional preparation is suggested: 1. Chemistry - Analytical Chemistry (equivalent to CHE 226) and Organic Chemistry (equivalent to CHE 230 or 236); 2. Introductory Soil Science with a lab (equivalent to PLS 366) and at least two additional soils courses; 3. Biology, two courses in basic biology (equivalent to BIO 151/152) and two additional courses in crop science, plant biology, or microbiology; 4. Statistics, including regression and experiment design (equivalent to STA 570, STA 671, and STA 672). Students are expected to make up deficiencies in these courses within one year of enrollment.

Degree Requirements

For the Ph.D. degree

- A minimum of 36 credit hours of graduate level work of which 18 hours of course work are in residence at the University of Kentucky
- Create a discipline-specific committee (consistent with Graduate School Requirements - 4 members for the PhD Program), and an individualized program of study within one year
- Satisfy basic Graduate School requirements for residency, examination, and good standing
- Have a minimum GPA of 3.0 at graduation
- Successfully complete an oral and written qualifying exam
- Successfully defend the dissertation, present an exit seminar, and submit an approved dissertation.

Required courses include IPS 610, IPS 625, PLS 772, and at least one graduate level statistics course. Additional coursework may be required by the student's dissertation committee. Details regarding the curriculum, program areas, and areas of specialization can be found in the student handbook.

Graduate students in IPSS have flexibility in designing course work to suit individual goals, but are expected to demonstrate competence in basic areas of plant and soil science and excellence in their chosen area of specialization as demonstrated by novel research leading to a published dissertation.

General information on electives and potential courses can be found at <https://ipss.ca.uky.edu/>

Incoming students are informed of the graduate-school and program-specific academic policies at an orientation held before classes begin each fall. A handbook is also on the IPSS website.

Master of Science

Integrated Plant and Soil Sciences, MS

The interdepartmental graduate program in Integrated Plant and Soil Sciences offers graduate work leading to the Master of Science (MS) degree with specialization in Crop Science (including weed science and forages), Environmental Science and Ecosystem Ecology (including ecotoxicology, biogeochemistry, environmental chemistry, and ecosystem modeling), Horticultural Science, Plant Biology (including biochemistry, molecular biology, physiology, and seed biology), and Soil Science (biogeochemistry, chemistry, fertility, microbiology, pedology, physics, and rhizosphere science).

With their degree, students will acquire an extensive knowledge of the sciences and technology that support research, education, and technological innovation in plant, soil, and environmental sciences. They will be conversant with the literature, current concepts, and experimental and analytical methods that support research, teaching, and technological innovation in plant, soil, and environmental sciences, and in their application to agriculture and the environment. They will develop skills in critical and analytical thinking and in multiple forms of communication that may be applied to research, education, industry, government, and public service. They will have acquired those elements of professionalism necessary for rewarding and developing careers in plant, soil, and environmental sciences in research, education, production agriculture, agribusiness, government, and public service.

Graduate faculty belong to the Departments of Forestry and Natural Resources (<https://forestry.ca.uky.edu/>), Horticulture (<https://www.uky.edu/hort/>), and Plant and Soil Sciences (<https://pss.ca.uky.edu/>) in the College of Agriculture, Food, and Environment

Financial aid and the research interests of participating faculty can be found on the websites of the participating departments.

Admission Requirements

- All students with strong training in science, including but not limited to baccalaureate degrees in agronomy, biology, chemistry, and horticulture are encouraged to apply.
- Admission to the IPSS Program is competitive and based on the applicant's undergraduate and graduate records, performance on standardized exams if submitted, and letters of recommendation.
- Applicants must have an identified research advisor prior to admission to the program.
- It is expected that applicants will meet the minimum standards established by the University of Kentucky Graduate School.

- Applicants will automatically be considered for departmental research assistantships, which are awarded on a competitive basis.

Degree Requirements

The MS in IPSS is available in two options

- Plan A: 30 credits, which can include up to 6 credits of thesis research, plus a Master's thesis.
- Plan B: 30 credits, plus a Master's project
- In both plans a minimum of 15 credit hours must be at the 600-level or above, and 20 hours must be in organized courses.
- All students will create a discipline-specific committee (consistent with Graduate School Requirements - 3 members for the MS program), and an individualized program of study within one year
- Satisfy basic Graduate School requirements for residency, examination, and good standing.
- Have an overall GPA of 3.0 or better to complete the MS degree and pass a final examination.
- Plan A students must present an exit seminar and submit an approved thesis. Required courses include IPS 610, IPS 625, PLS 772 , and at least one graduate level statistics course. Additional coursework may be required by the student's thesis or advisory committee.

Graduate students in IPSS have flexibility in designing course work to suit individual goals, but are expected to demonstrate competence in basic areas of plant and soil science and excellence in their chosen area of specialization.

General information on electives and potential courses can be found at <https://ipss.ca.uky.edu/>

Incoming students are informed of the graduate-school and program-specific academic policies at an orientation held before classes begin each fall. A handbook is also on the IPSS website.

Department of Plant Pathology

Doctor of Philosophy

Plant Pathology, PhD

Applicants seeking admission to the Ph.D. program in the Department of Plant Pathology as regular students must have an awarded baccalaureate degree. Each Ph.D. student's program is guided by a Major Professor (Dissertation Director) and an Advisory Committee throughout the student's graduate career. The purpose of the Advisory Committee is to give

the student continuity of direction and counsel and provide intellectual stimulation throughout residency to completion of the doctorate.

The DGS, or a designee (usually the Major Professor), serves as advisor to beginning graduate students until the Advisory Committee is appointed. Most students enter the program having already committed to a Major Professor; however there is an option for an incoming Ph.D. student who is supported on departmental assistantship or fellowship money to do two or three short lab rotations before choosing a Major Professor. This option is not available to students who are supported on individual grant funds. The Advisory Committee should be appointed before the end of the student's second semester. It MUST be appointed no less than one year prior to the Qualifying Examination. The Major Professor and Advisory Committee must be recommended to the Graduate School by the DGS. The DGS will approve the committee only if it meets all Graduate School requirements (below), provides a reasonable breadth and balance of expertise in the major and related disciplines, and presents no obvious conflicts of interest. Once the DGS has approved and recommended the committee, it will be officially appointed by the Graduate Dean. The Dissertation Director and the Advisory Committee specifically set requirements (within the rules and regulations of the Plant Pathology program, Graduate School, and University), which the student must meet in pursuit of the doctorate.

The Ph.D. Advisory Committee has a core of four members. This core consists of the Major Professor (Dissertation Director) as chair, two other faculty members from Plant Pathology, and at least one representative from outside the Plant Pathology Department. At least one representative must be from a minor area(s), different from the student's major research focus. All members of the core must be members of the Graduate Faculty of the University of Kentucky, and at least three (including the chair or a co-chair) must possess Full Graduate Faculty status. Additional faculty members can serve as members of the Advisory Committee. The core of the Advisory Committee must be kept at its full complement throughout the graduate career of the individual student. Thus, in the event of an unforeseen vacancy on the committee, an appropriate replacement must be made prior to any subsequent committee decisions. The DGS must recommend any replacements or changes to an Advisory Committee to the Graduate School. All decisions of the Advisory Committee are by majority vote of its Graduate Faculty members. Advisory Committee decisions are reported promptly to the DGS, who then transmits them to the Dean of the Graduate School.

In addition to advising and program planning, the Advisory Committee also administers the Qualifying Examination, supervises the preparation of the dissertation and, along with the Outside Examiner (selected by the Graduate School), administers the Final Examination. Regular committee meetings are essential both before and after the Qualifying Exam. Each student must meet with her or his Advisory Committee at least once a year to present a written and oral progress report. At a meeting prior to the submission of the thesis or dissertation to the Advisory Committee, agreement should be reached on the extent of additional research to be conducted for the completion of the thesis or dissertation. It is the responsibility of the student to schedule all necessary meetings with his or her Advisory Committee. A record of each meeting that includes the written progress report, signed by the student and the Major Professor, will be provided to the DGS by the Major Professor within two weeks of the meeting, and a copy will be placed in the student's file.

Admission Requirements

The Graduate School's requirements for admission are likewise the minimum requirements for acceptance into the Ph.D. program of the Department of Plant Pathology. However, additional materials are required for application to the Plant Pathology Ph.D. program. Each applicant must arrange for three letters of recommendation to be sent, and must also provide a curriculum vitae and a written statement identifying the applicant's reasons for desiring to undertake studies in this department, to the Plant Pathology DGS. These materials, and those submitted to the Graduate School, are considered on a case-by-case basis by the department's Academic Program Committee, which then makes a recommendation on admission. Admission to a graduate program in Plant Pathology does not guarantee financial assistance to the student. Applicants who are admitted will also be informed of any financial offer in a contract that they must sign in order to be admitted to the Graduate School.

Degree Requirements

Departmental Requirements

All graduate students pursuing a Ph.D. degree in the Plant Pathology program ideally should have, or should obtain, a background in the following areas: mathematics through differential and integral calculus; physics; chemistry, including analytical, organic, and biochemistry; and the equivalent of introductory courses in botany, plant physiology, genetics, molecular biology, statistics and microbiology. The Academic Program Committee will inform the Major Professor and the student, in writing, of any relevant course deficiencies at the time of admission to the program. Deficiencies should be corrected early in the graduate program either by formal coursework or, with the approval of the Advisory Committee, by independent study. In some cases, the Advisory Committee may decide to waive certain of these requirements, depending on the student's background, goals, and interests. Agreements regarding remedial coursework, independent study, or waivers should be recorded in the notes of the meeting in which they were discussed, and included in the student's file.

Basic Course Requirements

All students are strongly encouraged to take PPA 400G PRINCIPLES OF PLANT PATHOLOGY, even if they have had a similar course previously. This course provides a common basis for subsequent required courses in the department, and will allow international students to become conversant with domestic terminology and perspective in the discipline. Required courses for the Ph.D. are PPA 500 PHYSIOLOGY OF PLANT HEALTH AND DISEASE, PPA 600 CRITICAL METHODS IN PLANT-MICROBE INTERACTIONS, PPA 640 IDENTIFICATION OF PLANT DISEASES, PPA 641 PLANT DISEASE, POPULATION BIOLOGY, AND BIOTECHNOLOGY, and PPA 770 PLANT PATHOLOGY SEMINAR. Ph.D. students are required to complete all of the above courses, and also to take at least two of the following courses: PPA 670 PLANT BACTERIOLOGY, PPA 671 ADVANCED PLANT VIROLOGY, PPA 650 FUNGAL BIOLOGY, and PPA 673 ADVANCED PLANT DISEASE RESISTANCE. The Advisory Committee may decide to waive one or more of these course requirements if the student has already taken equivalent coursework at another institution. A record of this decision should be placed in the student's file.

Individual Course Requirements

Elective courses will be determined by the student together with the Major Professor and Advisory Committee, taking into account the student's background, research topic, and area of specialization.

Master of Science

Plant Pathology, MS

Applicants seeking admission to the M.S. program in the Department of Plant Pathology as regular students must have an awarded baccalaureate degree. Each M.S. student's program is guided by a Major Professor (Dissertation Director) and an Advisory Committee throughout the student's graduate career. The purpose of the Advisory Committee is to give the student continuity of direction and counsel and provide intellectual stimulation throughout residency to completion of the degree. The DGS, or a designee (usually the Major Professor), serves as advisor to beginning graduate students until the Advisory Committee is appointed. Most students enter the program having already committed to a Major Professor; however, there is an option for an incoming student who is supported on departmental assistantship or fellowship money to do two or three short lab rotations before choosing a Major Professor. This option is not available to students who are supported on individual grant funds. The Advisory Committee should be appointed before the end of the student's second semester. The Major Professor and Advisory Committee must be recommended to the Graduate School by the DGS. The DGS will approve the committee only if it meets all Graduate School requirements (below), provides a reasonable breadth and balance of expertise in the major and related disciplines, and presents no obvious conflicts of interest. Once the DGS has approved and recommended the committee, it will be officially appointed by the Graduate Dean. The Thesis Director and the Advisory Committee specifically set requirements (within the rules and regulations of the Plant Pathology program, Graduate School, and University), which the student must meet in pursuit of the degree.

The Department of Plant Pathology offers a primarily coursework non-thesis Master of Science degree, also called a "Plan B" Master's, designed for students seeking additional exposure and training in sub-disciplines within plant pathology without the emphasis placed on original research by the current thesis M.S. degree.

The PPA non-thesis master's degree option primarily involves academic course work followed by a written examination during the final semester of enrollment. The structured research component of the M.S. degree with thesis is not present in the non-thesis Plan B option. Since this option does not involve laboratory research, this degree track is suitable for working students. Students entering the Plan B Master's program will develop a curriculum based on their own interests, advice from a faculty advisor, the list of available classes, and the Graduate School guidelines for a non-thesis M.S. degree. Through this degree program, students can develop additional technical skills, expand their understanding in any of the major areas of plant pathology, and prepare themselves for additional educational opportunities or an upgrade in their employment position.

The typical length of time for completion of an M.S. non-thesis degree while enrolled as a part-time student is anticipated to be approximately six to eight semesters. The student will take a four-hour written exam after completing 30 graded graduate credits.

Admission Requirements

The Graduate School's requirements for admission are likewise the minimum requirements for acceptance into the M.S. program of the Department of Plant Pathology. However, additional materials are required for application to the Plant Pathology M.S. program. Each applicant must arrange for three letters of recommendation to be sent and must also provide a curriculum vitae and a written statement identifying the applicant's reasons for desiring to undertake studies in this department, to the Plant Pathology DGS. These materials, and those submitted to the Graduate School, are considered on a case-by-case basis by the department's Academic Program Committee, which then makes a recommendation on admission. Admission to a graduate program in Plant Pathology does not guarantee financial assistance to the student. Applicants who are admitted will also be informed of any financial offer in a contract that they must sign in order to be admitted to the Graduate School.

Degree Requirements

All graduate students pursuing a M.S. degree in the Plant Pathology program ideally should have, or should obtain, a background in the following areas: mathematics through differential and integral calculus; physics; chemistry, including analytical, organic, and biochemistry; and the equivalent of introductory courses in botany, plant physiology, genetics, molecular biology, statistics and microbiology. The Academic Program Committee will inform the Major Professor and the student, in writing, of any relevant course deficiencies at the time of admission to the program. Deficiencies should be corrected early in the graduate program either by formal coursework or, with the approval of the Advisory Committee, by independent study. In some cases, the Advisory Committee may decide to waive certain of these requirements, depending on the student's background, goals, and interests. Agreements regarding remedial coursework, independent study, or waivers should be recorded in the notes of the meeting in which they were discussed and included in the student's file.

For enrolled students the limit is 6 years to complete all requirements, with the possibility of extensions approved by the Graduate School for an additional 4 years.

Coursework

For a M.S. degree, the Graduate School has the following minimum course requirements:

- 30 total semester hours of graduate course work, with a GPA of at least 3.0. Courses that count toward fulfillment of this requirement are those with numbers from 500 to 799, and all 400-level courses with a G suffix that are outside the student's major (thus PPA 400G does not count for this requirement).
- 16 hours of graduate course work in regular courses. PPA 768 , PPA 784 and PPA 794 do not count for fulfillment of this requirement
- 12 hours of graduate course work in the student's major area (PPA).
- 12 hours in 600 or 700 level courses.

Thesis

A Master's thesis must represent an original scholarly contribution by the student. This should not discourage collaboration by students in larger, multi-authored projects, but collaborative research must be undertaken very carefully to ensure that the student's contribution represents a complete, self-contained piece of work that can easily be considered an independent accomplishment. It is the responsibility of the student, the Major Professor, and the Advisory Committee to ensure that this is the case. Basic Course Requirements: All students are strongly encouraged to take PPA 400G (Principles of Plant Pathology), even if they have had a similar course previously. This course provides a common basis for subsequent required courses in the department and will allow international students to become conversant with domestic terminology and perspective in the discipline. Required courses for both the M.S. and Ph.D. are PPA 500 PHYSIOLOGY OF PLANT HEALTH AND DISEASE, PPA 600 CRITICAL METHODS IN PLANT-MICROBE INTERACTIONS, PPA 640 IDENTIFICATION OF PLANT DISEASES, PPA 641 PLANT DISEASE, POPULATION BIOLOGY, AND BIOTECHNOLOGY, and PPA 770 PLANT PATHOLOGY SEMINAR . Individual Course Requirements: Elective courses will be determined by the student together with the Major Professor and Advisory Committee, taking into account the student's background, research topic, and area of specialization.

Plan B

During the first semester, the student will be assigned an advisor selected from the faculty in PPA with interests consistent with those of the student. Working with the faculty advisor, the student will complete a Program of Study having the depth and breadth to satisfy the requirements of the degree: The Program of Study should have, (1) an emphasis in a major area of plant pathology, and (2) a breadth of study in other areas of plant pathology such as biotechnology, molecular and cytological studies. During the student's first term of enrollment, the Program of Study must be submitted to the major professor for approval. By the beginning of his or her last semester, the student working with the faculty advisor, should submit faculty names to the DGS for final approval to form an advisory committee who will administer the exit exam. The DGS must approval all advisory committee members. This three-person committee is chosen from members of the graduate faculty in PPA who have agreed to serve. This committee will continue to advise the student and will administer the exit exam before the degree is awarded. Non-thesis (Plan B) Master's students in PPA must fulfill the general requirements as outlined by the Graduate School. Thirty (30) credit hours are required for the degree and students must pass a written exit exam in the last semester. The coursework requirements follow those set out by the Graduate School.

At least 20 credit hours must be graded graduate level courses (courses other than research or residency courses and that have a set meeting time), and at least 15 hours must be at the 600-700 level. Students may take courses numbered as 4xxG and 5xx in other departments with approval of the DGS. For the in-depth requirement of the degree, students are required to take a minimum of 20 credits in 500 or above level courses in PPA or other related programs such as IPSS, ENTO, etc. Of these, one credit hour must be taken as graduate seminar in PPA 770 or a relevant offering in another department with approval of the DGS. The exit exam will be at the end of the coursework, administered by the three-person committee to ensure the student is sufficiently familiar with scholarship in her/his chosen area of specialty,

Typically, the Department of Plant Pathology will not offer non-thesis M.S. students an assistantship. Students are expected to pay their tuition through other means. There are opportunities on a term by term basis for Plan B students to assist teaching PPA lab courses. Other sources of financial aid within UK or externally are also possible and the DGS will help to identify opportunities.

Department of Retailing and Tourism Management

Master of Science in Retailing and Tourism Management

Retailing and Tourism Management, MSRAT

The graduate program in the Department of Retailing and Tourism Management is philosophically committed to the well-being of individuals in their immediate environment. The program is designed to meet individual student interests and career objectives.

The graduate program leads to a Master of Science Retailing and Tourism Management with a formal option in HMT (Hospitality Management & Tourism) or MAT (Merchandising, Apparel and Textiles). The program is individualized to meet each student's career interests using a combination of course work, independent study, and research experience. Coursework in RTM is selected to either the HMT (Hospitality Management & Tourism) or MAT (Merchandising, Apparel and Textiles) focus.

Admission Requirements

- Undergraduate degree: applicant should have an awarded four year Bachelor's degree in hospitality, tourism management, merchandising, textiles, retailing, marketing, management, or a related degree
- Official transcripts - overall 2.75 GPA in all undergraduate coursework; 3.0 GPA in any graduate work
- Current resume
- Personal Statement: This should be a brief statement as to why the individual wishes to pursue a graduate degree in RTM
- TOEFL Score: Minimum 79 (for non-native English speakers)
- Three letters of recommendation

Degree Requirements

RTM Plan A (Thesis Plan)

- Credit Requirements:
- RTM Plan A requires 30 semester hours of coursework including a thesis
- Course Requirements:
- 12 semester hours of the following CORE COURSES
- RTM 600 RESEARCH METHODOLOGY IN HUMAN ENVIRONMENTAL SCIENCES (3)
- RTM 650 SURVEY OF CURRENT THEORIES AND LITERATURE (3)
- STA 570 BASIC STATISTICAL ANALYSIS (3)
- RTM 772 SEMINAR IN RETAILING AND TOURISM MANAGEMENT (3)
- 12 semester hours of SUPPORT SELECTION from courses at the 500, 600 or 700 level with prefixes HMT, MAT, or other those approved by DGS
- 6 semester hours of RTM 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE
- 12 semester hours of course work at 600-700 level
- 18 semester hours of regular courses (structured course and not independent study)

RTM Plan B (Non-Thesis Plan)

- Credit Requirements:
- RTM Plan B requires 30 semester hours of coursework including an industry experience
- Course Requirements:
- 12 semester hours of the following CORE COURSES
- RTM 600 RESEARCH METHODOLOGY IN HUMAN ENVIRONMENTAL SCIENCES (3)
- RTM 650 SURVEY OF CURRENT THEORIES AND LITERATURE (3)
- STA 570 BASIC STATISTICAL ANALYSIS (3)
- RTM 772 SEMINAR IN RETAILING AND TOURISM MANAGEMENT (3)
- 12 semester hours of SUPPORT SELECTION from courses at the 500, 600 or 700 level with prefixes HMT, MAT, or other those approved by DGS
- 6 semester hours of RTM 690 INDUSTRY EXPERIENCE IN RETAILING AND TOURISM MANAGEMENT
- 15 semester hours of course work at 600-700 level
- 18 semester hours of regular courses (structured course and not independent study)

Program Website

<http://rtm.ca.uky.edu/content/graduate-programs>

Department of Veterinary Science

Doctor of Philosophy

Veterinary Science, PhD

The overall mission of the Veterinary Science graduate program is to train students to become creative and critical thinking scientists with the contemporary skills and knowledge to perform independent research and to effectively communicate their results. The primary goal of research in the Veterinary Science program is to improve our understanding of the

biology of Equidae, with emphasis placed on investigating the causes and mechanisms that affect the production and performance of horses, regardless of breed.

Veterinary Science offers both the Master of Science (MS) and the Doctor of Philosophy (PhD) degrees, with specialization in infectious disease, parasitology, immunology, genetics, reproductive physiology, pharmacology, and musculoskeletal sciences. Each of these subspecialties has a general emphasis on the horse.

Admission Requirements

Applicants need a strong academic background with undergraduate course preparation in biology, chemistry and mathematics. Students accepted into the program should have an appropriate degree (i.e., in a STEM discipline) from an accredited institution, a minimum grade point average (GPA) of 3.0 on a 4.0 scale and a combined score (verbal plus quantitative) on the Graduate Record Examination (GRE) of not less than 300. Applicants with lesser qualifications will be accepted only on the recommendation of a graduate faculty member who is willing to support financially and serve as the research advisor for the student and with the approval of our full graduate faculty.

Degree Requirements

Students enrolled in the PhD program need to satisfy 36 credit hours of pre-qualifying residency, followed by at least two semesters of VS 767 (Dissertation Residency Credit; 2 credit hours/semester). For students with an earned Master's or DVM (or equivalent), up to 18 of the 36-hour pre-qualifying requirement may be waived at the discretion of the student's advisory committee, the DGS, and the Dean of the Graduate School.

Students pursuing both the MS and PhD in Veterinary Science must take two semesters of graduate-level biochemistry/molecular/cell biology (selected from CHE 550 & CHE 552 OR IBS 601, IBS 602, IBS 603, IBS 606) and one semester of graduate-level statistics (STA 570 or STA 580) or demonstrate equivalent coursework completed elsewhere. Students in the MS program must enroll in VS 770, Departmental Seminar, and give a presentation in at least one semester. Students in the PhD program must enroll in VS 770 and give presentations in at least 2 semesters. As well, VS 600, Ethics in Scientific Research, is strongly recommended.

Any additional coursework is determined by each student in concert with the major advisor and the PhD advisory committee.

<http://vetsci.ca.uky.edu/content/graduate-education>

Master of Science

Veterinary Science, MS

The overall mission of the Veterinary Science graduate program is to train students to become creative and critical thinking scientists with the contemporary skills and knowledge to perform independent research and to effectively communicate their results. The primary goal of research in the Veterinary Science program is to improve our understanding of the biology of Equidae, with emphasis placed on investigating the causes and mechanisms that affect the production and performance of horses, regardless of breed.

Veterinary Science offers both the Master of Science (MS) and the Doctor of Philosophy (PhD) degrees, with specialization in infectious disease, parasitology, immunology, genetics, reproductive physiology, pharmacology, and musculoskeletal sciences. Each of these subspecialties has a general emphasis on the horse.

Admission Requirements

Applicants need a strong academic background with undergraduate course preparation in biology, chemistry and mathematics. Students accepted into the program should have an appropriate degree (i.e., in a STEM discipline) from an accredited institution, a minimum grade point average (GPA) of 3.0 on a 4.0 scale and a combined score (verbal plus quantitative) on the Graduate Record Examination (GRE) of not less than 300. Applicants with lesser qualifications will be accepted only on the recommendation of a graduate faculty member who is willing to support financially and serve as the research advisor for the student and with the approval of our full graduate faculty.

Degree Requirements

Students enrolled in the MS program must meet the Graduate School Requirements of at least 30 credit hours of coursework, to include 6 credit hours of VS 768 (Residence Credit for the Master's Degree).

Students pursuing both the MS and PhD in Veterinary Science must take two semesters of graduate-level biochemistry/molecular/cell biology (selected from CHE 550 & CHE 552 OR IBS 601 IBS 602 IBS 603 IBS 606) and one semester of graduate-level statistics (STA 570 or STA 580) or demonstrate equivalent coursework completed elsewhere. Students in the MS program must enroll in VS 770 VETERINARY SCIENCE SEMINAR, and give a presentation in at least one semester. Students in the PhD program must enroll in VS 770 and give presentations in at least 2 semesters. As well, VS 600 ETHICS IN SCIENTIFIC RESEARCH, is strongly recommended.

Any additional coursework is determined by each student in concert with their major advisor.

<http://vetsci.ca.uky.edu/content/graduate-education>

College of Arts and Sciences

College of Arts and Sciences

For more information about the College of Arts and Sciences, visit their website at <https://www.as.uky.edu/>.

Graduate Certificate

Diversity and Inclusion Certificate

The graduate certificate in Diversity and Inclusion is an online, 12 credit hour certificate designed for a wide range of professional backgrounds in recognition of our increasingly diverse world and workplaces. The certificate provides both the knowledge and tools to develop, promote, and support inclusive environments through 8-week, online courses designed by faculty. Skills and knowledge gained through the certificate are highly sought after by today's employers and would be beneficial to business administrators, health care professionals, government employees, educators, and non-profit organizations.

Latin American, Caribbean, and Latino Studies Certificate

This certificate is directed primarily at graduate students whose intended academic and/or professional careers in research, teaching, and public or private sectors incorporate a focus on the geographical and cultural region of Latin America, the Caribbean, and the populations of Latin American and Caribbean descent living in the United States, Europe, and other parts of the world. It provides graduate students with the skills and knowledge to connect Latin American, Caribbean, and Latino topics to their research agendas. It is pursued concurrently with the regular MA and PhD degree programs of participating departments. To be awarded the graduate certificate in Latin American, Caribbean, and Latino/a studies, the student must successfully complete four courses amounting to 12 graduate credit hours with an overall GPA of 3.0 or higher.

Liberal Studies Certificate

There is a persistent and growing demand among employers for workplace professionals who possess strong communication, research, and critical thinking skills beyond those attained as undergraduates. These skills can be difficult for people to continue developing after completion of the initial Bachelor's degree.

Drawing on the Liberal Arts disciplines, the Online Graduate Certificate in Liberal Studies offers students the possibility to develop proficiencies from among a cluster of significant employment-related skills, such as critical and complex thinking, clear writing and communication, effective collaboration, research, cultural literacy, and awareness and sensitivity to the context and historical attributes of key issues in today's society.

The certificate's flexible curriculum allows students to easily tailor highly individualized programs of study to their own pace. The certificate will augment students' career and professional opportunities by helping them to become better decision makers; more effective strategists and thinkers; better leaders and team members; more socially and historically aware citizens; and more adept writers and communicators.

The Graduate Certificate requires 12 credit hours of coursework including one core course (PHI 522 Advanced Critical Thinking) and three additional courses from the list of approved courses (students must take courses from at least two of the five fields of inquiry).

Social Theory Certificate

This certificate offers students systematic multidisciplinary training in social theory. It augments, and is pursued concurrently with, the regular MA and PhD Degree programs of participating departments. In total, the certificate requires ten hours of course work, can be pursued in tandem with regular degree programs, and is open to all graduate students at the University of Kentucky.

Department of Anthropology

Doctor of Philosophy

Anthropology, PhD

Degree Requirements

The PhD program in Anthropology consists of a minimum of 36 credit hours, plus a minimum of two semesters of ANT 767 . Students must fulfill any and all other requirements of the Graduate School. An entering PhD student should complete required coursework by the end of the second year, and successfully defend a dissertation proposal and successfully complete the qualifying exams as early as the fifth semester, but no later than the tenth semester, after admission to the program. Upon acceptance into the graduate program, a student will be assigned a graduate advisor who will review and approve all first-year coursework, and in consultation with the DGS, evaluate requests for transfer of up to 9 credit hours of equivalent graduate-level coursework. Following the first year, all coursework will be approved by the student's committee.

Requirements in the Ph.D. program consist of: (1) three required courses - History of Theory (ANT 610) and a theory and a methods course in the student's designated sub-discipline, to be taken in the first year when available; (2) a course in Research Design (ANT 662), (3) an approved statistics course; (4) 7 courses (21 hours) of additional coursework, of which at least 1 course must be in an anthropological sub-discipline (archaeology, biological, cultural) other than the student's designated sub-discipline. Demonstrated competence by the student in reading or speaking one or more languages may be required by the student's committee. Students must complete and successfully defend to their committee a dissertation research proposal prior to the scheduling of the qualifying exams.

The MA/PhD Program

With the approval of the Graduate Committee and the Director of Graduate Studies, students without a Master's Degree may be admitted directly into the PhD program, and receive the MA following successful completion of the PhD qualifying exams. Students must take: (1) ANT 601 , ANT 610 and ANT 660 or ANT 610 , ANT 650 and ANT 651 ; (2) a statistics course at the 500+ level; and (3) a minimum of 15 additional credit hours of coursework in

anthropology or cognate disciplines as approved by the student's committee. Anthropology faculty members have research experience in the following areas: South and Southeast Asia, North and Sub-Saharan Africa, Middle East and North Africa, Europe, the former Soviet Union, Latin America, and North America, including the urban and rural U.S. and with specialization in studies of Appalachia. Members of the department participate in interdisciplinary research in the University's College of Agriculture, College of Medicine, College of Education, and School of Public Health. The Department of Behavioral Science includes anthropologists on its faculty, and students with interests in medical anthropology are encouraged to take behavioral science courses

Master of Arts

Applied Anthropology, MA

Since its inception in the 1960s, the graduate program has been nationally recognized as a leader in applied anthropology. We define applied anthropology as research with practical application and impact, but anchored in a rigorous foundation in anthropological theory and method, whether from cultural, biocultural, or medical anthropological, or bioarchaeological, historical archaeological, or archaeological perspectives, for example. With grounding in core anthropological and archaeological theory and method, we train our students to be skilled researchers who can traverse both academic and non-academic settings, bringing to their research a sound intellectual base, and skills for application and practice.

The M.A. degree in Applied Anthropology at UK is designed to train students to apply the theories, methods, and practices of anthropology to solve real world problems with community and organizational partners, and to prepare students for careers in different domains of application or for further graduate study. The program draws on the department's considerable research strengths in a variety of areas (see website for more information), and puts strong emphasis on training in theory, application, and proficiency in a broad range of current research methods and technical skills. The M.A. in Applied Anthropology program has three Areas of Concentration - Archaeology, Cultural Anthropology and Medical Anthropology. Students must declare their area of concentration in their program application.

Admissions Requirements

If you are entering the Anthropology M.A. program without previous training in anthropology, you might want to read *Perspectives: An Open Invitation to Cultural Anthropology* (a free online textbook available at <http://perspectives.americananthro.org/>) and/or a text recommended by your advisor (e.g., Charles Orser's 2016 text *Historical Archaeology*) prior to your first semester.

Degree Requirements

The degree completion requires 30 credits of coursework. The M.A. degree requires a written report based on the practicum. The report is written with the guidance of a committee of

three faculty members. The final examination for the Master's degree is an oral presentation of the practicum project to the department. There is no foreign language requirement for the Master's degree in applied anthropology.

Archaeology Concentration:

The Archaeology concentration is aimed at preparing students for careers in applied archaeological anthropology, including cultural resource management, museum and heritage studies, and public archaeology.

Students are expected to have archaeological field school training before starting graduate school. UKY offers or recommends an archaeological field school each summer, and students who have not participated in a field school will be encouraged to seek mentored field experience through or beyond the program.

Students interested in careers in Cultural Resource Management will be encouraged to enroll in ANT 545 and electives in Historic Preservation, and program revisions are underway to further accommodate CRM career preparation.

Plan of Study:

Course	When taken	Cr Hrs
ANT 525 APPLIED ANTHROPOLOGY	1st semester	3
ANT 650 THEORY IN ARCHAEOLOGY	1st/2nd semester	3
ANT 651 ARCHAEOLOGICAL DATA ANALYSIS	2nd semester	3
3 courses in Archaeology (1 can be allied profession)	1st - 3rd semester	9
2 courses as approved by advisor/committee (may include ANT 790)	1st - 3rd semester	6
ANT 760 - 6 credit hours practicum in applied anthropology	1st - 3rd semester	6
Total		30

Cultural Anthropology Concentration:

The Cultural Anthropology concentration is designed to prepare students for careers in various domains of application, including economic development, rural and urban development, business anthropology, public anthropology, human services, education,

consulting and research, program monitoring and evaluation, and work with corporations, governmental and non-governmental organizations.

Plan of Study:

Course	When taken	Cr Hrs
ANT 525 APPLIED ANTHROPOLOGY	1st semester	3
ANT 610 HISTORY OF THEORY IN ANTHROPOLOGY	1st/2nd semester	3
ANT 660 ETHNOGRAPHIC RESEARCH	2nd semester	3
3 courses in Cultural Anthropology (1 can be allied profession)	1st - 3rd semester	9
2 courses as approved by advisor/committee (may include ANT 790)	1st - 3rd semester	6
ANT 760 - 6 credit hours practicum in applied anthropology	1st - 3rd semester	6
Total		30

Medical Anthropology Concentration:

The Medical Anthropology concentration is based on fundamental concerns with the study of social forces and health inequalities, and various programmatic endeavors and community-based responses to them. Participants in the program will receive training in ethnographic methods, community-based participatory research and/or program evaluation along with instruction in anthropological perspectives on health and the intersection of anthropology with public health.

Plan of Study:

Course	When taken	Cr Hrs
ANT 525 APPLIED ANTHROPOLOGY	1st semester	3
ANT 610 HISTORY OF THEORY IN ANTHROPOLOGY	1st/2nd semester	3

Course	When taken	Cr Hrs
ANT 660 ETHNOGRAPHIC RESEARCH	2nd semester	3
3 courses in Medical Anthropology (1 can be allied profession)	1st - 3rd semester	9
2 courses as approved by advisor/committee (may include ANT 790)	1st - 3rd semester	6
ANT 760 - 6 credit hours practicum in applied anthropology	1st - 3rd semester	6
Total		30

Requirements for all M.A. Students:

Practicum:

All M.A. students must enroll in 6 credit hours of ANT 760 (Practicum in Applied Anthropology). The practicum is expected to be the equivalent of a full-time effort for at least one academic semester.

Departmental Presentation:

All M.A. students are required to write a report and to deliver a presentation to the department as a condition of graduation.

Department of Biology

Doctor of Philosophy

Biology, PhD

The Biology Graduate Program offers Doctor of Philosophy and Masters of Science degrees (thesis and non-thesis) in Biology, but doctoral training is strongly emphasized. Master's training is not a prerequisite for admission into our doctoral program. Applicants are selected for admission based on their overall academic record, GRE scores, letters or recommendation, prior research experience, and on their expressed interest in our graduate program training areas or the research of the Biology Department faculty members.

Training

Graduate students are trained through a combination of formal coursework and research experience. Research training consists of work on a research project under the guidance of one or more of our faculty members. The specific research project is chosen in consultation with the faculty mentor and typically is closely related to the research interests of that lab. A

one-credit Biology Graduate Student Orientation seminar course is required for all first-year graduate students admitted into the Biology program. All students must complete a set of common requirements for the Biology Graduate Program, including seminar courses, research, a qualifying exam (for Ph.D. candidates), and an exit exam (thesis defense for Ph.D. and Plan A M.S.). Additional coursework depends on the area of specialization and is determined with input from the faculty mentor and student's advisory committee and the training program. The training programs include Environmental and Evolutionary Biology (EEB), Molecular, Cellular and Developmental Biology (MCDB), and Tailored Training (TT).

Environmental and Evolutionary Biology Training Program

The Environmental and Evolutionary Biology group supports education and research on the interactions between organisms and their environment from an evolutionary perspective. This includes the study of micro- and macro-evolutionary processes; the physiological, developmental, and behavioral adaptations of individual organisms; predator-prey, mutualistic, and competitive interactions; and community and ecosystem relationships. Faculty members conduct research exploring both basic underlying principles and specific applied consequences of ecological interactions. The group's core philosophy is that major advances in understanding how organisms evolve and function in changing ecological systems are achieved in an interactive, interdisciplinary research environment involving diverse conceptual and methodological approaches. Students achieve this through coursework, topical seminars, weekly research seminars, and research projects guided by their major advisor and thesis committee.

Molecular, Cellular and Developmental Biology Training Program

Molecular, Cellular and Developmental Biology (MCDB) training focuses on fundamental cellular and developmental processes such as gene expression, cell proliferation, cell signaling, development, neural function, aging, and behavior. We apply biochemical, genetic, physiological, and molecular techniques to resolve outstanding issues in biology and use a diverse set of experimental organisms (e.g., fungi, cultured cells, and complex animals ranging from the fruit fly to mouse). Entering MCDB students rotate through two different laboratories before selecting a research mentor near the end of the first year of study. Students participate in weekly research and literature seminars and are guided in the selection of other formal course work in order to best prepare for their thesis/dissertation studies. The faculty and students in the MCDB group interact closely with each other, with colleagues elsewhere on our campus, and with scientists worldwide to achieve a stimulating research atmosphere. Our program successfully prepares students for scientific research careers in academic, industrial and governmental settings.

Tailored Training

The Tailored Training program provides great curricular flexibility. The principal difference between Tailored Training and training in the MCDB and EEB programs is that there are no set course requirements, other than the minimum requirements set by the Biology Graduate Program. The mentor and advisory committee work together with the student to customize a curriculum that best suits the needs, interests, and goals of the student. This may be particularly advantageous for students whose primary interests encompass areas outside of or across the other training programs. The curriculum is unique to each student, but not isolating. The student is encouraged to participate in relevant seminars, journal clubs, or other activities attended by students in the MCDB and EEB training programs or in other University graduate training programs. Students admitted through the Tailored Training option enter the Biology Graduate Program directly into the lab of their research mentor. Applicants interested in admission through this mechanism should contact the faculty member with whom they wish to train and also indicate their lab of choice in

the Biology application. Faculty members offering Tailored Training will indicate this option on their web pages.

Financial Support

Full financial support is offered to all Ph.D. and Plan A M.S. students accepted for graduate admission; no financial aid application is required. Support may include teaching assistantships and fellowships provided by the university and department, research assistantships offered by faculty mentors, interdisciplinary traineeships and fellowships or extramural research fellowships to individual students.

Admission Requirements

Anyone with a bachelor's degree from an accredited college or university may apply for admission to the Biology Graduate Program at either the MS or Ph.D. levels. Applicants are generally expected to have an undergraduate grade point average of at least 3.0 (out of 4.0), a combined verbal and quantitative Graduate Record Examination score of at least 1100 (old scoring system) or 300 (new scoring system) and, for nonnative English speakers, a TOEFL score of at least 550 on paper-based test or 213 on the computer-based test (CBT) or 79 on internet-based test (IBT). Our GRE institution code is 1837 and Department Code is 0206. We encourage completed applications by January 1 although applications will continue to be reviewed until all positions are filled.

Prerequisite college-level coursework includes one year of physics, two years of chemistry, one semester of calculus, one year of general biology, and upper-level courses providing a working knowledge of contemporary biology. Every student entering the Biology Graduate Program is presented with the Graduate School Bulletin at orientation to familiarize the students with UK Graduate School policy. In addition, each student is provided with a copy of the Rules, Regulations & Policies for the Biology Graduate Program which describes the Departmental rules governing the Biology Graduate Program.

The Biology Graduate Program application is available online. This application and additional information about the Biology Graduate Program can be found at the Program website: <https://bio.as.uky.edu/grad-program> .

Degree Requirements

Requirements to be added.

Master of Science

Biology, MS

The Biology Graduate Program offers Doctor of Philosophy and Masters of Science degrees (thesis and non-thesis) in Biology, but doctoral training is strongly emphasized. Master's training is not a prerequisite for admission into our doctoral program. Applicants are selected

for admission based on their overall academic record, GRE scores, letters or recommendation, prior research experience, and on their expressed interest in our graduate program training areas or the research of the Biology Department faculty members.

Training

Graduate students are trained through a combination of formal coursework and research experience. Research training consists of work on a research project under the guidance of one or more of our faculty members. The specific research project is chosen in consultation with the faculty mentor and typically is closely related to the research interests of that lab. A one-credit Biology Graduate Student Orientation seminar course is required for all first-year graduate students admitted into the Biology program. All students must complete a set of common requirements for the Biology Graduate Program, including seminar courses, research, a qualifying exam (for Ph.D. candidates), and an exit exam (thesis defense for Ph.D. and Plan A M.S.). Additional coursework depends on the area of specialization and is determined with input from the faculty mentor and student's advisory committee and the training program. The training programs include Environmental and Evolutionary Biology (EEB), Molecular, Cellular and Developmental Biology (MCDB), and Tailored Training (TT).

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Program. The mentor and advisory committee work together with the student to customize a curriculum that best suits the needs, interests, and goals of the student. This may be particularly advantageous for students whose primary interests encompass areas outside of or across the other training programs. The curriculum is unique to each student, but not isolating. The student is encouraged to participate in relevant seminars, journal clubs, or other activities attended by students in the MCDB and EEB training programs or in other University graduate training programs. Students admitted through the Tailored Training option enter the Biology Graduate Program directly into the lab of their research mentor. Applicants interested in admission through this mechanism should contact the faculty member with whom they wish to train and also indicate their lab of choice in the Biology application. Faculty members offering Tailored Training will indicate this option on their web pages.

Financial Support

Full financial support is offered to all Ph.D. and Plan A M.S. students accepted for graduate admission; no financial aid application is required. Support may include teaching assistantships and fellowships provided by the university and department, research assistantships offered by faculty mentors, interdisciplinary traineeships and fellowships or extramural research fellowships to individual students.

Admission Requirements

Anyone with a bachelor's degree from an accredited college or university may apply for admission to the Biology Graduate Program at either the MS or Ph.D. levels. Applicants are generally expected to have an undergraduate grade point average of at least 3.0 (out of 4.0), a combined verbal and quantitative Graduate Record Examination score of at least 1100 (old scoring system) or 300 (new scoring system) and, for nonnative English speakers, a TOEFL score of at least 550 on paper-based test or 213 on the computer-based test (CBT) or 79 on internet-based test (IBT). Our GRE institution code is 1837 and Department Code is 0206. We encourage completed applications by January 1 although applications will continue to be reviewed until all positions are filled.

Prerequisite college-level coursework includes one year of physics, two years of chemistry, one semester of calculus, one year of general biology, and upper-level courses providing a working knowledge of contemporary biology. Every student entering the Biology Graduate Program is presented with the Graduate School Bulletin at orientation to familiarize the students with UK Graduate School policy. In addition, each student is provided with a copy of the Rules, Regulations & Policies for the Biology Graduate Program which describes the Departmental rules governing the Biology Graduate Program.

The Biology Graduate Program application is available online. This application and additional information about the Biology Graduate Program can be found at the Program website: <https://bio.as.uky.edu/grad-program> .

Degree Requirements

Requirements to be added.

Department of Chemistry

Doctor of Philosophy

Chemistry, PhD

The Department of Chemistry at the University of Kentucky offers two graduate degrees—the MS and the PhD (doctoral) degree. In the MS degree program, the student has the option of pursuing the MS Plan A, which involves research and a thesis, or the MS Plan B, a non-thesis or coursework-only option. A Master's degree is not a prerequisite for the PhD degree.

Admission Requirements

Four years of chemistry covering the areas of general, organic, physical, and analytical constitute the normal minimum requirement for pursuing graduate work within this Department. Additional prerequisite undergraduate work includes one year of college physics, mathematics through calculus, and training in some foreign language. In special cases, exceptions to these rules may be made by the Director of Graduate Studies and the Graduate Program Committee. An undergraduate grade point average of at least 3.0 (based on a 4-point system) normally shall be required for admission as a graduate student in the Department of Chemistry. The Graduate Program Committee shall, however, be authorized to admit students with averages as low as 2.75, based on such evidence of ability as high GRE scores, recommendations, or excellent preparation. No students with undergraduate averages below 2.5 will be admitted. Graduate Students who lack specified prerequisites, or are found to be deficient in the Proficiency Examinations given during the orientation program, may make up their deficiencies by registering in and successfully completing the appropriate (usually undergraduate) courses.

Degree Requirements

Course work for the PhD shall include four core courses, one from each of four of the five areas of chemistry: analytical, biological, inorganic, organic and physical. Students who entered the program prior to the Fall 2014 semester must select one course from each of the two areas where the lowest proficiency examination scores were obtained. The following (three-credit) courses are officially "core" in each area: CHE 626 (Fall Analytical), CHE 623 (Spring Analytical); CHE 550 (Fall Biological), CHE 552 (Spring Biological); CHE 510 (Fall Inorganic), CHE 514 (Spring Inorganic); CHE 538 (Fall Organic), CHE 535 (Spring Organic); CHE 547 (Fall Physical), CHE 548 (Spring Physical). Students will not be making satisfactory progress unless they have completed at least 12 hours of course work other than research and seminar by the end of the first year and 24 hours of course work by the end of the second year. In addition, any time a student's GPA falls below a 3.0, this is automatically considered to be unsatisfactory performance. Students who are not making satisfactory progress after three semesters will be ineligible to serve as teaching assistants and may be terminated in the graduate program.

A minimum of 8 credits of graduate-level (500-level or above) Chemistry courses in addition to the required core courses. They shall be "regular" courses (that is, seminar, colloquium, practicum, independent study, and research course are excluded); they should generally be in the student's area of study. The second core course of a pair, if taken, can be considered an advanced or specialty course. A minimum of 3 credits of course work outside of the Department of Chemistry. These credits need not be in graduate-level courses, but must be approved by the advisory committee. Alternatively, these credits can be in graduate-level courses in the Department of Chemistry, selected in an area outside the student's area of concentration.

Please see the Department of Chemistry Graduate Program Handbook for more information related to the Graduate Program.

Please visit the Department of Chemistry website for more resources and information.

Master of Science

Chemistry, MS

The Department of Chemistry at the University of Kentucky offers two graduate degrees-the MS and the PhD (doctoral) degree. In the MS degree program, the student has the option of pursuing the MS Plan A, which involves research and a thesis, or the MS Plan B, a non-thesis or coursework-only option. A Master's degree is not a prerequisite for the PhD degree.

Admission Requirements

Four years of chemistry covering the areas of general, organic, physical, and analytical constitute the normal minimum requirement for pursuing graduate work within this Department. Additional prerequisite undergraduate work includes one year of college physics, mathematics through calculus, and training in some foreign language. In special cases, exceptions to these rules may be made by the Director of Graduate Studies and the Graduate Program Committee. An undergraduate grade point average of at least 3.0 (based on a 4-point system) normally shall be required for admission as a graduate student in the Department of Chemistry. The Graduate Program Committee shall, however, be authorized to admit students with averages as low as 2.75, based on such evidence of ability as high GRE scores, recommendations, or excellent preparation. No students with undergraduate averages below 2.5 will be admitted. Graduate Students who lack specified prerequisites, or are found to be deficient in the Proficiency Examinations given during the orientation program, may make up their deficiencies by registering in and successfully completing the appropriate (usually undergraduate) courses.

Degree Requirements

Course work for the MS shall include four core courses, one from each of four of the five areas of chemistry: analytical, biological, inorganic, organic and physical. Students who entered the program prior to the Fall 2014 semester must select one course from each of the two areas where the lowest proficiency examination scores were obtained. The following (three-credit) courses are officially "core" in each area: CHE 626 (Fall Analytical), CHE 623 (Spring Analytical); CHE 550 (Fall Biological), CHE 552 (Spring Biological); CHE 510 (Fall Inorganic), CHE 514 (Spring Inorganic); CHE 538 (Fall Organic), CHE 535 (Spring Organic); CHE 547 (Fall Physical), CHE 548 (Spring Physical). Students will not be making satisfactory progress unless they have completed at least 12 hours of course work other than research and seminar by the end of the first year and 24 hours of course work by the end of the second year. In addition, any time a student's GPA falls below a 3.0, this is automatically considered to be unsatisfactory performance. Students who are not making satisfactory progress after three semesters will be ineligible to serve as teaching assistants and may be terminated in the graduate program.

MS-A (Master's Thesis Plan): A minimum of 30 graduate credit hours, 15 of which must be at the 600- or 700-level (Graduate School requirement). The advisory committee may require additional courses.

MS-B (Master's Coursework Plan): A minimum of 30 graduate credit hours, 15 of which must be at the 600-or 700-level (Graduate School requirement). The advisory committee may require additional courses. Of these 15 advanced credit hours, the Council on Postsecondary Education currently requires that 12 credit hours be in Chemistry (CHE) courses.

Please see the Department of Chemistry Graduate Program Handbook for more information related to the Graduate Program.

Please visit the Department of Chemistry website for more resources and information.

Department of Earth and Environmental Sciences

Doctor of Philosophy

Geological Sciences, PhD

The Department of Earth and Environmental Sciences offers graduate studies leading to the M.S. and Ph.D. degrees in Geology. Students with degrees in geology, any other natural science, or engineering are invited to apply.

Research within the Department of Earth and Environmental Sciences is funded by grants and contracts from NSF, DOE, PRF, and other federal, state, and industrial sources. Areas of graduate research are in fields covered by regular and adjunct faculty, including coal geology, hydrogeology, stratigraphy, petrology, geophysics, and tectonics.

Admission Requirements

Admission to pursue an M.S. or Ph.D. degree requires a bachelor's degree, a minimum grade point average of 2.75, three letters of reference and results from the verbal, quantitative, and analytical Graduate Record Examination (GRE). TOEFL scores are required for international applicants. For more details, please consult Admissions Information and Assistantships and Fellowships.

Admission criteria include GPA, GRE scores, prior course work, letters of reference, previous experience, and match with faculty research interests. This program requires an undergraduate GPA of at least 3.0 on all undergraduate and graduate work. For international applicants, we require that applicants rank in the top 25% of their graduating classes.

GRE must be taken, but there is no minimum score. Applicants who score at least 75th percentile on one category of the GRE and who have (a) an overall undergraduate GPA of 3.30, (b) a GPA of 3.60 for the last 60 credit hours of undergraduate work, or (c) a GPA of 3.80 for a completed master's degree (in each case from a US institution) are eligible for a Pirtle Fellowship, which provides \$3,000 in summer salary. Most applicants have a "standard" geology background, but strong students with backgrounds in the sciences and engineering are also admitted. Spoken English proficiency is important because many of our graduate students are employed as teaching assistants (in particular, as laboratory instructors). For international applicants, the Graduate School requires a minimum score of 550 on the TOEFL (213 on the computerized version; 79 on the internet-based version) or 6.5 on the IELTS. We typically only consider admission to the PhD program after completion of a master's degree either here at UK or at another US or European institution. Students who are deficient in one or more respects may be admitted provisionally or as non-degree students by action of the Graduate Committee. Your chances of admission are better if you've identified faculty members with whom you might work. We recommend you consult our faculty research specialties at <https://ees.as.uky.edu/faculty> and directly contact faculty in your areas of interest.

Degree Requirements

The Doctor of Philosophy in Geological Sciences requires candidates complete at least 36 hours of prequalifying graduate course work, including that taken for a master's degree (which counts for 18 hours) and at least 2 semesters of EES 767 following the qualifying exam. Ph.D. students must take 3 credits of EES 695 (Scientific Communication), unless they have already completed these requirements as a student in the M.S. program. The normal full-time load is 3 courses (usually 9-10 credits) each semester, and no more than 12 credits per semester should be taken. Individual Work in Geology (EES 782) and Research in Geological Sciences (EES 790) will include data collection (field, laboratory, and/or library) and must not duplicate dissertation research. A research plan must be approved by a faculty member, who will direct the research, as well as the DGS. The faculty member who directed the research will provide a final evaluation of the project. The evaluation will be conveyed to the DGS.

Master of Science

Geological Sciences, MS

The Department of Earth and Environmental Sciences offers graduate studies leading to the M.S. and Ph.D. degrees in Geology. Students with degrees in geology, any other natural science, or engineering are invited to apply.

Research within the Department of Earth and Environmental Sciences is funded by grants and contracts from NSF, DOE, PRF, and other federal, state, and industrial sources. Areas of graduate research are in fields covered by regular and adjunct faculty, including coal geology, hydrogeology, stratigraphy, petrology, geophysics, and tectonics.

Admission Requirements

Admission to pursue an M.S. or Ph.D. degree requires a bachelor's degree, a minimum grade point average of 2.75, three letters of reference and results from the verbal, quantitative, and analytical Graduate Record Examination (GRE). TOEFL scores are required for international applicants. For more details, please consult Admissions Information and Assistantships and Fellowships.

Admission criteria include GPA, GRE scores, prior course work, letters of reference, previous experience, and match with faculty research interests. This program requires an undergraduate GPA of at least 3.0 on all undergraduate and graduate work. For international applicants, we require that applicants rank in the top 25% of their graduating classes.

GRE must be taken, but there is no minimum score. Applicants who score at least 75th percentile on one category of the GRE and who have (a) an overall undergraduate GPA of 3.30, (b) a GPA of 3.60 for the last 60 credit hours of undergraduate work, or (c) a GPA of 3.80 for a completed master's degree (in each case from a US institution) are eligible for a Pirtle Fellowship, which provides \$3,000 in summer salary. Most applicants have a "standard" geology background, but strong students with backgrounds in the sciences and engineering are also admitted. Spoken English proficiency is important because many of our graduate students are employed as teaching assistants (in particular, as laboratory instructors). For international applicants, the Graduate School requires a minimum score of 550 on the TOEFL (213 on the computerized version; 79 on the internet-based version) or 6.5 on the IELTS. We typically only consider admission to the PhD program after completion of a master's degree either here at UK or at another US or European institution. Students who are deficient in one or more respects may be admitted provisionally or as non-degree students by action of the Graduate Committee. Your chances of admission are better if you've identified faculty members with whom you might work. We recommend you consult our faculty research specialties at <https://ees.as.uky.edu/faculty> and directly contact faculty in your areas of interest.

Degree Requirements

The Master of Science in Geological Sciences (Plan A) requires the completion of graduate course work and a thesis. The student must complete at least 30 credit hours of graduate course work, which may include up to 6 hours of EES 768*. The normal graduate load is 9 -

10 credits during each of the first two semesters, and no more than 12 credits is advised. Graduate courses are those in the 500, 600, or 700 series, or in the 400G series if outside the Department of Earth and Environmental Sciences. At least 16 credits must be in EES course work, including 3 credits of Scientific Communication (EES 695-001). At least 12 credits must be in the 600 or 700 series, and at least 9 of the 600- or 700-level credits must be in EES courses. At least 16 hours must be regular (non-research) courses. Full-time students who are enrolled in at least 3 hours but less than 9 hours of coursework, which is typical in the third semester of the M.S. program, should register for EES 768 RESIDENCE CREDIT FOR MASTER'S DEGREE to reach 9 hours total. *768 hours do not count towards the 16 hours of EES coursework or the 12 hours of 600 or 700 series.

Department of English

Doctor of Philosophy

English, PhD

The Doctoral Program in English at the University of Kentucky is designed to train students for the professoriate as both superb teachers and first-rate scholars through seminar work, qualifying exams in specific periods and subfields of literary study, and a long-form, original research project (the dissertation). The doctoral program is designed to lead to the PhD in five years of study beyond the MA degree. With a diverse range of graduate seminars and an active research faculty, the PhD program prepares students for a successful professional career in academia. Students can specialize in the fields of British, American, or Anglophone. Students will gain a broad expertise that will prepare them for researching and writing the dissertation. We are committed to the professional training of our students, and they have been successful in gaining academic employment. With rare exceptions, all enrolled doctoral students are funded through TAships.

The department offers a wide variety of specializations not only in traditional literary history but also in film studies, cultural studies, African-American Studies, and Postcolonial Theory. The Department of English consists of 41 full-time faculty members who offer a range of courses in British, American, African-American, and Women's Literature, Creative Writing, Film, and Literary Theory. The graduate program relies on a nationally recognized faculty, a strongly supportive University of Kentucky Research Foundation, an active university press, and a research library of 1.2 million volumes.

Admission Requirements

Students eligible for the PhD program must have:

- A UGPA of at least 3.25 and a GGPA of at least 3.0. Unofficial transcripts from all attended institutions are required. If the student is admitted and accepts, the graduate school will require all official transcripts. University of Kentucky graduates should note their degrees on the application but are not required to submit transcripts.
- Three letters of recommendation, preferably from faculty familiar with the student's strengths and interests.

- A statement of purpose of no more than two pages that outlines what research interests the student expects to pursue for the PhD.
- A writing sample of approximately 20 pages that demonstrates the student's ability to carry out original research and make cogent arguments.
- A CV or resume.
- As of fall 2021, neither the general GRE nor the subject test in English is a required component of a student's application.

Degree Requirements

- Students are responsible for taking 36 residency hours prior to the qualifying exam, including 24 regular course hours (graduate seminars at the 600 and 700 level). Students on TAs (which includes virtually all PhD students) will enroll in various teaching practicums in order to teach for the department. All pre-qualifying residency hours should be completed in the first two years of the program. For a sampling of recent and current graduate seminars, please see here: <https://english.as.uky.edu/english-graduate-courses>
- By the third semester of the program, students should have assembled a doctoral committee consisting of three faculty members in the English department and one outside member from a discipline adjacent or relevant to the student's proposed research program. At least three members of the committee must be tenured faculty.
- In year three, students take a qualifying examination that consists of two parts: a 2-hour oral examination in a major and minor field (in the fall) and a dissertation prospectus defense (in the spring). In the fall, qualifying students enroll in ENG 700, an examination preparation and professionalization course. Once students have successfully completed the qualifying examination and prospectus defense, they move into the dissertation phase of the program.
- Students are expected to complete their dissertations in years 4 and 5. Once the dissertation is finished and the committee has decided the student is ready, the student will complete a dissertation defense. After a successful defense, the student will turn in the dissertation to the Graduate School and receive their doctoral degree.
- Students may take up to six credit-hours of courses at the graduate level outside of the English Department. They can also apply for a wide variety of graduate certificates, which typically require 9 to 15 hours of coursework. These certificates range from Gender and Women's Studies to Social Theory to Preparing Future Faculty. For a list of the available certificates, see here: <https://gradschool.uky.edu/graduate-certificates>
- For a fuller sense of what the English department doctoral program's requirements and expectations are, including sample timelines to degree, see here: <https://english.as.uky.edu/doctoral-program>

Master of Arts

English, MA

The two-year MA program in English at the University of Kentucky provides broad training in literature, language, and theory. The flexible program is designed to meet the academic and professional needs of a range of students, including scholars who plan to move on to the PhD degree and teachers and professionals in the region who wish to pursue the terminal MA. Students can select either literature or film as their area of concentration. With rare exceptions, all MA students are funded through TAships.

The department offers a wide variety of specializations not only in traditional literary history but also in film studies, cultural studies, African-American Studies, and Postcolonial Theory. The Department of English consists of 41 full-time faculty members who offer a range of courses in British, American, African-American, and Women's Literature, Creative Writing, Film, and Literary Theory. The graduate program relies on a nationally recognized faculty, a strongly supportive University of Kentucky Research Foundation, an active university press, and a research library of 1.2 million volumes.

Admission Requirements

Students eligible for the MA program must have:

- A UGPA of at least 3.25 on a 4.0 scale. Unofficial transcripts from all attended institutions are required. If the student is admitted and accepts, the graduate school will require all official transcripts. University of Kentucky graduates should note their degrees on the application but are not required to submit transcripts.
- An undergraduate degree in English or its equivalent. Applicants who do not complete an undergraduate English major but have a substantial background in literature should contact the Director of Graduate Studies.
- Three letters of recommendation, preferably from faculty familiar with the student's strengths and interests.
- A statement of purpose of no more than two pages that outlines what research interests the student expects to pursue for the PhD.
- A writing sample of approximately 20 pages that demonstrates the student's ability to carry out original research and make cogent arguments.
- A CV or resume.
- As of fall 2021, neither the general GRE nor the subject test in English is a required component of a student's application.

Degree Requirements

The MA timeline has two paths: a thesis (Plan A) and a non-thesis (Plan B) option.

Plan A students must

- Take 30 credit hours of coursework at the graduate level, which may include up to 6 hours of ENG 768. Students on assistantship are advised to take nine credit hours each semester (fall and spring) during the first year, six credit hours in the fall of the second year, and spend the spring semester of their second year writing their thesis and preparing for their oral examination. The oral examination will take place toward the end of the spring semester of the second year.
- Form a thesis committee consisting of a director and two other faculty members from within the English department.
- Write a Master's thesis (normally not to exceed 60 pages) on an original topic in a recognizable subfield of the discipline.
- Defend the thesis in a 90-minute oral examination.

Plan B students must

- Take 30 credit hours of coursework at the graduate level. Students on assistantship are advised to take nine credit hours each semester (fall and spring) during the first year and six credit hours each semester (fall and spring) during the second year. The oral examination will take place toward the end of the spring semester of the second year.
- Form a committee consisting of a director and two other faculty members from within the English department.
- Take a 90-minute oral examination based on a reading list of 30 to 50 texts to complete their degree.

MA students who choose either Plan A or Plan B may take up to six credit-hours of courses at the graduate level outside of the English Department. They can also apply for a wide variety of graduate certificates, which typically require 9 to 15 hours of coursework. These certificates range from Gender and Women's Studies to Social Theory to Preparing Future Faculty.

For a list of the available certificates, see here: <https://gradschool.uky.edu/graduate-certificates>

For a fuller sense of what the English department doctoral program's requirements and expectations are, including sample timelines to degree, see here: <https://english.as.uky.edu/doctoral-program>

Master of Fine Arts

Creative Writing, MFA

The two-year MFA program in Creative Writing in the University of Kentucky English department provides a strong basis in mastering the tools of imaginative writing, from poetry to fiction to creative nonfiction. Situated in historic Lexington and surrounded by the awesomeness of thoroughbred horse farms and bourbon distilleries, the University enjoys a rich literary heritage dating back to 1947, when Pulitzer Prize-winning novelist A.B. Guthrie

first offered courses in fiction. Graduates of the English Department include Gurney Norman, Frank X Walker, Bobbie Ann Mason, Rebecca Gayle Howell, Wendell Berry, Kayla Rae Whitaker, Maurice Manning, Bianca Spriggs, Patrick O'Keefe, Holly Goddard Jones, and James Baker Hall. The MFA Program in Creative Writing builds upon that rich history by offering students access to a diverse faculty in fiction, poetry, and creative non-fiction. With rare exceptions, all MFA students are funded through TAships.

MFA candidates take both workshop and craft courses during their tenure. In addition, students can draw on the expertise of a faculty of 41 professors, including a distinguished roster of ten professors of creative writing.

Admission Requirements

Students eligible for the MA program must have:

- A UGPA of at least 2.75 on a 4.0 scale. Unofficial transcripts from all attended institutions are required. If the student is admitted and accepts, the graduate school will require all official transcripts. University of Kentucky graduates should note their degrees on the application but are not required to submit transcripts.
- Three letters of recommendation, preferably from faculty familiar with the student's strengths and interests.
- A statement of purpose of no more than two pages that outlines what interests the student has in pursuing the MFA.
- A writing sample of approximately 20 pages that demonstrates the student's strengths as a writer.
- A CV or resume.
- As of fall 2021, neither the general GRE nor the subject test in English is a required component of a student's application.

Degree Requirements

MFA candidates must:

- Take 30 hours of coursework, including:
 - 12 hours of ENG 607 GRADUATE WRITING WORKSHOP (SUBTITLE REQUIRED)
 - 6 hours of ENG 608 CRAFT OF WRITING: (SUBTITLE REQUIRED)
 - 3 hours of any English graduate course at the 600 or 700 level
 - 3+ hours of the student's choice of any additional course at the 600 or 700 level or (outside the English department) at the 400G level or above.
 - Up to 6 hours of ENG 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE or an additional 6 hours of graduate coursework

- Write a thesis consisting of a substantial body of original writing. Both are required for successful completion of the MFA degree. The thesis should be over 120 pages of fiction (short stories, novella or novel) or non-fiction, or a collection of approximately 48 poems.
- Form a committee of three faculty members chosen by the student and approved by the Director of Creative Writing.
- Defend the thesis in a 90-minute oral examination.

Department of Gender and Women's Studies

Doctor of Philosophy

Gender and Women's Studies, PhD

The graduate program in Gender and Women's Studies at the University of Kentucky aims to train cutting-edge scholars in feminist, gender, and sexuality studies. We are deeply committed to the academic innovations in both women's studies, in which lived experiences of women worldwide are honored and used to expand traditional disciplinary knowledges, and gender studies, which examines how we ascribe gendered meanings to everyday objects, experiences, and relationships across space and time. Our curriculum is shaped by an intellectually and culturally diverse faculty whose areas of expertise complement each other in ways to ensure that students gain a variety of knowledge and skills. These include the areas of transnational perspectives, critical theory, affect theory, social justice frameworks, and interdisciplinary methodologies. Our faculty actively publish and teach across a broad range of topical area including studies of violence, social movements and activism, the law, reproductive justice, education, disability, masculinities, migration, body, popular culture, sexualities, queer theory, science, and health.

The Ph.D. program is designed to familiarize students with (1) fundamental concepts, theories and frameworks for scholarly feminist inquiry, and (2) different approaches to inquiry and research in gender and women's studies. Students will learn to critically interpret and evaluate feminist theories, methods, and arguments; analyze relations of power marked by gender and other social distinctions and processes including age, class, colonialism, ethnicity, national origin, race, region, religion, and sexuality; and conduct and communicate advanced research in gender and women's studies.

Admission Requirements

- Applicants for the Ph.D. degree program may be accepted from any undergraduate degree field. Applicants will be accepted into the program with or without an M.A. or equivalent advanced degree. For students without an M.A., the degree will be earned as part of their Ph.D. program.
- Applicants should have a 3.0 or higher undergraduate GPA and, if relevant, a 3.2 or higher graduate GPA. In addition, students must submit a personal statement, resume or vitae (CV), writing sample, three letters of recommendation, and official undergraduate and graduate (if relevant) transcripts.

Degree Requirements

The Ph.D. program requires 36 credits of coursework plus a minimum of 4 dissertation residency credits.

Students must complete:

- A two course sequence on feminist theory: Feminist Theory (GWS 650) and History of Feminist Thought (GWS 640)
- Two courses in methods/skills training (GWS 630 and an additional GWS or approved course)
- Two GWS "area" pro-seminars (GWS 600, GWS 700), which include topical areas in gender, women's and sexuality studies
- Elective courses in GWS or other disciplines, determined in conjunction with the student's advisory committee

<https://gws.as.uky.edu/graduate-program-gws>

Graduate Certificate

Gender and Women's Studies Certificate

The graduate certificate in Women's Studies is intended to provide students with a coherent, interdisciplinary grounding in current gender and women's studies scholarship and to create an intellectual community among faculty and graduate students who share scholarly interests in gender and women's studies. The graduate certificate in women's studies may be taken to complement a student's disciplinary program, or it may be taken independent of the pursuit of any disciplinary graduate degree. For full information on this curriculum, please see our web page: <https://gws.as.uky.edu/gws-graduate-certificate>

Department of Geography

Doctor of Philosophy

Geography, PhD

The PhD in Geography is designed to develop the theoretical, conceptual and methodological training necessary for students to make original contributions to geographic knowledge. The University of Kentucky's Department of Geography is known for high quality research and education in human geography, physical geography, and mapping. Program strengths include close faculty/student interaction, flexibility in designing an appropriate plan of study, and research training in seminar environments.

A variety of philosophical and methodological approaches are encouraged to prepare students for research-oriented careers in universities, government, and industry. Emphasis is placed on theoretical and methodological training and is closely integrated with both breadth

and depth in substantive literatures. Student research also is empirically rich, with data regularly acquired through off-campus fieldwork. Members of the faculty are committed to assisting students in disseminating their research through publications in professional journals and presentations at conferences, and in obtaining external funding. Graduate students also gain valuable experience as instructors in undergraduate courses. Rounding out graduate students' experiences is their active participation in departmental governance and service on departmental committees.

Faculty and student research in the Department focuses on interrelated thematic clusters in accordance with the current interests of graduate students and faculty. The clusters facilitate collaborative scholarship though they typically do not function as formal research teams. The clusters tend to work as loose and overlapping intellectual communities that can incorporate working groups, reading groups, and collaborative projects, and they give a sense of the breadth of the research conducted in the department. The research clusters we presently feature are: Black Geographies, Critical Financial Geographies, Critical Mapping and GIS, Digital Geographies, Environmental Geographies, Political Ecology, Political Geographies, Queer and Feminist Geographies, Social Theory and Urban Geographies. Descriptions of each cluster and their associated faculty are available at <https://geography.as.uky.edu/geography-research-clusters>

Admission Requirements

We accept applicants holding Master degrees in any field. In addition to UK Graduate school required materials, applicants should also provide

- A statement of goals and objectives in which you discuss your areas of scholarly interest, research directions you wish to pursue, and how your goals fit in with the Department of Geography.
- A current resume or curriculum vitae.
- Three letters of references from persons who can evaluate your potential for success in our graduate program.

More details are available at <https://geography.as.uky.edu/admissions>

Degree Requirements

- Students are required to take GEO 600 INTRODUCTION TO METHODS IN GEOGRAPHY
- Students are required to take GEO 702 CONCEPTS IN GEOGRAPHY
- Students are required to take GEO 705 ADVANCED GEOGRAPHIC METHODS (SUBTITLE REQUIRED)

- Students are required to take Three one-credit hour Professional Development Courses
- GEO 741 TEACHING PRACTICUM
- GEO 742 PREPARING FUTURE FACULTY IN GEOGRAPHY
- GEO 743 RESEARCH PROPOSALS AND GRANT WRITING
- Students are required to prepare a dissertation research proposal and meet with their advisory committee prior to preparing for their qualifying exam.

Graduate Certificate

Applied Environmental and Sustainability Studies Certificate

The online Graduate Certificate in Applied Environmental and Sustainability Studies prepares graduates for positions in the corporate, government, and non-governmental worlds as a sustainability manager, corporate sustainability specialist, or one of many other fast growing environmental and sustainability professions. Students take a total of 12 credit-hours of graduate coursework. This consists of 9 credit-hours in Environmental and Sustainability Studies and a methods/skills elective. The curriculum is available here.

Digital Mapping Certificate

The New Maps Plus graduate certificate in digital mapping is designed to serve the expanding landscape of mapping. This includes new professional sites and applications where maps are made by various people (from small business owners to non-profit managers to marketers) using all kinds of (often freely available) software and websites. Admissions requires a bachelor's degree but no prior GIS or mapping experience is necessary. Holders of the graduate certificate will be able to:

- Identify the appropriate applications of different forms of geospatial data, analytical techniques and mapping software platforms.
- Gather, integrate, transform and analyze geospatial data from multiple sources.
- Create static and interactive maps and visualizations in accordance with prevailing and rigorous cartographic standards.
- Develop basic web-based programs and scripts utilizing web standards to enhance user interaction with maps.
- Identify and implement appropriate applications of design components to maximize the usability of maps.
- Construct a publicly-available online portfolio of data, code, maps and accompanying explanations on an online sharing platform such as Github.

Master of Arts

Applied Environmental and Sustainability Studies, MA

The online Master of Arts in Applied Environmental and Sustainability Studies prepares graduates for positions in the corporate, government, and non-governmental worlds as a sustainability manager, corporate sustainability specialist, or one of many other fast growing environmental and sustainability professions.

Students take a total of 30 credit-hours of graduate coursework (24 credits of coursework and 6 credits of either capstone research or internship). Coursework consists of three core courses (total of 9 credit hours), two skills courses (total of 6 credit hours), and three elective courses (total of 9 credit hours) to expand their skills, insights and engagement with Environmental and Sustainability Studies. This MA degree only offers non-thesis, plan B options: Upon completing these 24 credit-hours, students take two courses for three credits each to prepare and implement their final Master's research project under the supervision of faculty members. The MA also offers the alternate plan B option of completing six credit hours of internship work under supervision of faculty members. All MA students will have a final oral examination.

Admission Requirements

- CV or resume
- Statement of Purpose (2-3 pages)
- Writing Sample (optional)
- Undergraduate transcript
- A non-refundable \$65 application fee (\$75 for international applicants)
- TOEFL or IELTS score (international applicants only). Minimum scores are listed on the graduate school's admission page.
- GRE or GMAT scores are NOT required for admission to this program.

Degree Requirements

Core Courses (9 Credit Hours)

- ENS 601 ENVIRONMENT AND SUSTAINABILITY: ISSUES AND IDEAS (3 credit hours)
- ENS 602 ENVIRONMENT AND SUSTAINABILITY POLICY AND GOVERNANCE (3 credit hours)
- ENS 603 COMMUNICATING ENVIRONMENTAL AND SUSTAINABILITY STUDIES (3 credit hours)

Skills Courses (6 Credit Hours)

Students choose a total of 6 credit hours from two of the skills courses listed below.

- LA 556 CONTEMPORARY GEOSPATIAL APPLICATIONS FOR LAND ANALYSIS / NRE 556 CONTEMPORARY GEOSPATIAL APPLICATIONS FOR LAND ANALYSIS (3 credit hours)
- MAP 671 INTRODUCTION TO NEW MAPPING (3 credit hours)
- STA 570 BASIC STATISTICAL ANALYSIS (3 credit hours)
- STA 674 REGRESSION ANALYSIS AND DESIGN OF EXPERIMENTS (3 credit hours)
- STA 677 APPLIED MULTIVARIATE METHODS (3 credit hours)

Capstone/Internship (6 Credit Hours)

Students must complete one of two options to satisfy the non-thesis requirement for the Master's in Applied Environmental and Sustainability Studies. All students will be required to complete a one-hour oral exam.

Plan B Option #1 Internship

Complete 6 credit hours of internship coursework:

- ENS 697 INTERNSHIP IN APPLIED ENVIRONMENTAL AND SUSTAINABILITY STUDIES I (3 credit hours)
- ENS 698 INTERNSHIP IN APPLIED ENVIRONMENTAL AND SUSTAINABILITY STUDIES II (3 credit hours)

Plan B Option #2 Capstone

Complete 6 credit hours through a capstone research project and report

- ENS 695 RESEARCH IN APPLIED ENVIRONMENTAL AND SUSTAINABILITY STUDIES (3 credit hours)
- ENS 696 REPORTING RESEARCH IN APPLIED ENVIRONMENTAL AND SUSTAINABILITY STUDIES (3 credit hours)

Elective Courses (9 Credit Hours)

Students must take an additional 9 credit hours from the approved list of courses. Other courses at the 600-level and above that relate to environmental and sustainability studies may be used to satisfy this requirement with the permission of the program director. Students may only count 6 credit hours of ENS 605 (under different subtitles) or ENS 699 (up to 3 credit hours) towards this requirement.

Geography, MA

The MA in Geography is designed to develop the theoretical, conceptual and methodological training necessary for students to make original contributions to geographic knowledge. The University of Kentucky's Department of Geography is known for high quality research and education in human geography, physical geography, and mapping. Program strengths include close faculty/student interaction, flexibility in designing an appropriate plan of study, and research training in seminar environments.

A variety of philosophical and methodological approaches are encouraged to prepare students for research-oriented careers in universities, government, and industry. Emphasis is placed on theoretical and methodological training and is closely integrated with both breadth and depth in substantive literatures. Student research also is empirically rich, with data regularly acquired through off-campus fieldwork. Members of the faculty are committed to assisting students in disseminating their research through publications in professional journals and presentations at conferences, and in obtaining external funding. Graduate students also gain valuable experience as instructors in undergraduate courses. Rounding out graduate students' experiences is their active participation in departmental governance and service on departmental committees.

Faculty and student research in the Department focuses on interrelated thematic clusters in accordance with the current interests of graduate students and faculty. The clusters facilitate collaborative scholarship though they typically do not function as formal research teams. The clusters tend to work as loose and overlapping intellectual communities that can incorporate working groups, reading groups, and collaborative projects, and they give a sense of the breadth of the research conducted in the department. The research clusters we presently feature are: Black Geographies, Critical Financial Geographies, Critical Mapping and GIS, Digital Geographies, Environmental Geographies, Political Ecology, Political Geographies, Queer and Feminist Geographies, Social Theory and Urban Geographies. Descriptions of each cluster and their associated faculty are available at <https://geography.as.uky.edu/geography-research-clusters>

The MA in Geography is available in two options:

- Plan A: 30 credit hours of coursework (including six credits of thesis) and an oral examination.
- Plan B: 30 hours of coursework, a research paper, a written exam and an oral examination.

Admission Requirements

We accept applicants holding Bachelor degrees in any field. In addition to UK Graduate school required materials, applicants should also provide:

- A statement of goals and objectives in which you discuss your areas of scholarly interest, research directions you wish to pursue, and how your goals fit in with the Department of Geography.
- A current resume or curriculum vitae.
- Three letters of references from persons who can evaluate your potential for success in our graduate program.

More details are available at <https://geography.as.uky.edu/admissions>

Degree Requirements

- Students are required to complete thirty hours of coursework.
- Students are required to take GEO 600 INTRODUCTION TO METHODS IN GEOGRAPHY
- Students are required to take GEO 702 CONCEPTS IN GEOGRAPHY
- Plan A students are required to take six credits of GEO 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE (Thesis)
- Plan B students are required to take an advanced methods course (such as GEO 705) appropriate to the student's interest and approved by the student's thesis advisor and the DGS
- For the remaining credits qualifying courses are as follows:
 - no more than 6 credit hours below the 600 level in the Department of Geography (GEO or MAP prefixes);
 - no more than 6 credit hours of independent study;
 - no more than 9 credit hours taken outside the Department of Geography; and
 - at least 16 credit hours must be regular courses (not independent study courses) numbered at the 600 or 700 level.

Master of Science

Digital Mapping, MS

The Department of Geography at the University of Kentucky offers two completely online programs in Digital Mapping: an 11-credit Graduate Certificate and a 30-credit Master of Science (Plan B, nonthesis).

The Digital Mapping graduate programs at the University of Kentucky offer a challenging, intensive, digital mapping curriculum that emphasizes the acquisition of technical skills - coding, GIS, web development - while also preparing students to critically address the complexity of today's information ecosystem.

These Graduate Certificate and Master of Science degree programs in digital mapping were designed with all levels of experience in mind. Whether students are new to open-source software or an experienced GIS user, they will benefit from a truly unparalleled online learning experience developed by internationally renowned faculty in a top-ranked geography department.

Students will develop the technical skills and design fluency you need to make highly sophisticated web maps that are also elegant and impactful. Perhaps even more importantly, they will learn to think critically about the social dimensions of the maps they make and the data from which they make them. Maps, after all, are powerful things: they shape what we see and what we don't, with serious implications for how we come to know the world.

Admission Requirements

Prospective applicants must meet the general requirements of the Graduate School regarding minimum undergraduate grade point average. The applicant will be

required to submit official transcripts for all undergraduate work. Required supplemental materials include a personal statement; CV and/or resume; mapping portfolio; examples of code/design; and three letters of recommendation. GRE scores are not required for application. New admission to the Master of Science in Digital Mapping occurs twice annually, during the Spring and Fall semesters. One additional entry point is available in the Summer for those students that have completed the requirements for the Graduate Certificate in Digital Mapping. Applications are accepted until 2 weeks before the term start using custom dates detailed on the Programs
page: <https://newmapsplus.as.uky.edu/programs>

Degree Requirements

After applying and being accepted to the MS in Digital Mapping, the student must complete the following 30 hours of coursework:

- MAP 671 INTRODUCTION TO NEW MAPPING (3)
- MAP 672 PROGRAMMING FOR WEB MAPPING (4)
- MAP 673 DESIGN FOR INTERACTIVE WEB MAPPING (4)
- MAP 674 SPATIAL DATA ANALYSIS AND VISUALIZATION (4)
- MAP 675 COLLABORATIVE GEOVIZUALIZATION (4)
- MAP 701 HISTORY OF CRITICAL CARTOGRAPHY (2)
- MAP 719 SOCIAL IMPACTS OF NEW MAPPING (3)
- MAP 698 FINAL PROJECT PREPARATION (3)
- MAP 699 FINAL PROJECT IMPLEMENTATION (3)
- **TOTAL CREDIT HOURS FOR MS DEGREE 30**

Department of Hispanic Studies

Doctor of Philosophy

Hispanic Studies, PhD

Admission Requirements

We require a B.A. in Hispanic Studies or a related area, demonstrated fluency in Spanish and English, strong letters of reference and a representative research essay from the candidate's prior academic work. Graduate Record Examination scores are required for admission. Foreign students must pass the TOEFL with the minimum required score of 550 on the paper

version of the exam, 213 on the computer version, or 79 on the Internet/IBT version. Supervised teaching experience within the department is a requirement for both the M.A. and Doctoral degrees.

Degree Requirements

54 credit hours (18 courses) of which four courses are required: successful completion of SPA 553 TEACHING OF SPANISH, SPA 600 INTRODUCTION TO SPANISH LINGUISTICS, SPA 606 INTRODUCTION TO CRITICAL THEORY AND CULTURAL STUDIES and SPA 770 INTRODUCTION TO HISPANIC STUDIES. Of the remaining 15 courses, 5 must be in the major field of concentration (with two of these at the 700 level). 4 courses must be in the allied fields, and 2 in a minor field (outside the department). Additionally, the student must demonstrate reading knowledge of one language other than Spanish and English. The successful candidate will defend a dissertation prospectus, successfully complete Parts A and B of the Doctoral Qualifying Exam, and defend a dissertation.

Candidates are expected to devise a program of study and research around the major area of specialization. Two minor areas (in Hispanic literature and culture or Linguistics) and one allied field (related to the dissertation work) must be selected as support divisions for the major area. Minimum graduate credit expectations are 24 credit hours in the combined Major and Minor areas and 12 credit hours in the Allied Fields; 6 graduate credits in each of the two remaining areas not chosen as Major, Minor, or Allied Fields. Two seminars (one in the major field) are required.

Specialization by area:

- 1) Medieval Spanish Studies;
- 2) Renaissance and Early Modern Spanish Studies;
- 3) Eighteenth and Nineteenth Century Spanish Studies;
- 4) Twentieth and Twenty-First Century Spanish Studies;
- 5) Colonial and Nineteenth Century Spanish American Studies;
- 6) Twentieth and Twenty First Century Spanish American Studies.
- 7) U.S. Latino Studies

The dissertation focus may combine Hispanic literature and film, Hispanic literature and Fine Arts, Hispanic literature with a second literature, literature and popular culture, or literature and theory. Students are encouraged to explore topics in Transatlantic Studies, and to make use of the programs in Social Theory, Gender and Women's Studies, Latin American Studies, Environmental Studies and Appalachian Studies in considering transdisciplinary possibilities for their doctoral theses.

The Doctoral Qualifying Examination consists of two parts. Part A is a written exam and a two hour oral exam based on the reading list and the prospectus the student has created under the supervision of the dissertation committee. The written exam is structured as follows: a take-home exam in the areas of the dissertation and the extra-disciplinary Minor Field, and

an additional ten hours to test the student's knowledge in his/her area of general specialization, and the additional three areas (Major and Allied Fields) on which the student has chosen to concentrate. In order to take this exam, the student needs to have submitted a written prospectus and a reading list to the dissertation committee at least two months before scheduling the exam.

Part B of the qualifying examination will take place during the semester following Part A. The student will present either a fully written introduction or a sample dissertation chapter to the dissertation committee. Acceptable Progress towards the Dissertation: The ABD student is required to establish and maintain an acceptable timeline for completing the dissertation. The Department expects that the student complete at least one dissertation chapter per semester until the dissertation is completed. It is hoped that the student will complete the dissertation within two years after the qualifying exams.

Master of Arts

Hispanic Studies, MA

Admission Requirements

We require a B.A. in Hispanic Studies or a related area, demonstrated fluency in Spanish and English, strong letters of reference and a representative research essay from the candidate's prior academic work. Graduate Record Examination scores are required for admission. Foreign students must pass the TOEFL with the minimum required score of 550 on the paper version of the exam, 213 on the computer version, or 79 on the Internet/IBT version. Supervised teaching experience within the department is a requirement for both the M.A. and Doctoral degrees.

Degree Requirements

36 credit hours total. Reading knowledge of one foreign language in addition to Spanish and/or English; successful completion of SPA 553 TEACHING OF SPANISH, SPA 600 INTRODUCTION TO SPANISH LINGUISTICS, SPA 606 INTRODUCTION TO CRITICAL THEORY AND CULTURAL STUDIES and SPA 770 INTRODUCTION TO HISPANIC STUDIES. Successful completion of an additional 24 hours of credits of which 6 may be taken at the 500 level (24 credits must be taken at the 600 level or above). The M.A. is granted to a student who has successfully passed a written and oral examination after completing the required coursework. One half of the exam is designed to test the candidate's knowledge of the M.A. Reading List (located at <https://hs.as.uky.edu/sites/default/files/Post-May%202015%20MA%20Reading%20List.pdf>) and the other half is based on the candidate's graduate-level coursework. A student who plans to complete only the M.A. degree (or is not admitted into the Ph.D. program) has four semesters to complete the coursework towards the MA. M.A. exams are given in August and January.

NOTE: Students who are admitted into the Ph.D. program during the fourth semester of coursework are not required to take an M.A. exam after four semesters. The M.A. degree will be conferred to them upon successful completion of the doctoral Qualifying Exam. Students who enter the program with an M.A. from another institution will be evaluated by the

Graduate Studies Committee at the beginning of the third semester of coursework. If the committee deems the student's work acceptable, the student may then go on to complete the PhD requirement. If the work is deemed unacceptable, the student will be required to pass the MA exam before proceeding on to the Ph.D

Department of History

Doctor of Philosophy

History, PhD

Students in the History PhD program pursue careers both as academic historians at colleges and universities and as researchers and scholars with libraries and archives, historical societies, and other public and private institutions. The department aims to train its students to be researchers, teachers, and engaged citizens, and the core of the graduate program is built around graduate research and readings seminars. Students must excel in these courses to be prepared to advance to the qualifying exam and the doctoral dissertation.

Admission Requirements

Students applying for the PhD program must have earned an MA degree in History at the University of Kentucky or at another doctoral institution. Applicants who wish to be considered for financial assistance and fellowships should review the department's website for specific deadlines. For additional information on application procedures and requirements, consult: <https://history.as.uky.edu/admission>

Degree Requirements

The doctoral program consists of two stages. One involves meeting specific requirements leading to the qualifying examinations, which include:

- HIS 606 (unless the student has taken it for the M.A. degree)
- HIS 750, a one-credit Professional Development Seminar
- Complete a minimum of eight 600- and 700-level reading seminars. (HIS 606 counts toward this requirement; HIS 750 does not; HIS 695 independent study courses do not unless approved by the DGS.) Students who have completed their M.A. degrees at UK may apply all 600- and 700-level seminars completed as an M.A. student toward this requirement.
- Two 700-level research seminars. Students who have completed two 700-level seminars while earning the M.A. at UK need take only one additional research seminar. Students who have written an M.A. thesis in History at another institution may petition to take only one 700-level research seminar

- Achieve a grade point average of 3.6 or higher in the 600- and 700-level seminars
- Meet specific field requirements. Students specializing in U.S. history must take HIS 640 and HIS 641, an additional readings seminar in the pre-1877 period, and an additional readings seminar in the post-1877 period; students specializing in pre-modern and early modern European history must take a minimum of one semester of HIS 705, the Pre-Modern European Colloquium (unless it is not offered).
- Satisfy the foreign language requirement as outlined in the Graduate School Bulletin. A second set of requirements pertains to the post-qualifying examination stage of doctoral study. These requirements include:

- Prepare and defend a dissertation prospectus
- Enroll in HIS 767 for two credit hours each semester until finishing the dissertation
- Research, write, and defend a dissertation.

More information about the History PhD program and its requirements can be found at <https://history.as.uky.edu/history-graduate-program/history-graduate-handbook>

Master of Arts

History, MA

The M.A. degree is available to students seeking a stand-alone (or terminal) M.A. and to students who are seeking an M.A./Ph.D. Many M.A. graduates pursue careers in high school teaching, government service, libraries and archives, and private employment. Others continue on to the Ph.D. program or to doctoral study at other institutions.

Admission Requirements

Students applying for the MA degree program should submit evidence of extensive undergraduate preparation in History (preferably an undergraduate major). Applicants who wish to be considered for financial assistance and fellowships should review the department's web-site for specific deadlines. For additional information on application procedures and requirements, consult: <https://history.as.uky.edu/history-graduate-program/applying-program>

Degree Requirements

MA Plan A (Thesis)

Credit requirements:

- 30 semester credit hours of coursework and a thesis with a standing of 3.0 (B) or better
- Course requirements:

- HIS 606 HISTORICAL CRITICISM

- At least 15 credit hours at the 600 or 700 level (not including 768 hours)
- At least one 700-level research seminar
- At least 16 credit hours must be from Department of History courses (not including 768 hours)
- At least 16 credit hours of regularly scheduled courses (excludes the following course types: independent study, research, residency, practicum)
- A maximum of 6 hours of HIS 768 is allowed
- Students must write an MA thesis under the supervision of a MA advisor. The thesis must be an original work of scholarship and 60-100 pages in length.
- Students must defend the MA thesis in an oral examination before an advisory committee that consists of the student's advisor and two other faculty members. The exam will focus on the thesis, but the student may also be examined over the MA coursework.
- Meet the MA foreign language requirement as outlined in the Graduate School Bulletin and any additional requirements specified by the student's field.

MA Plan B (Non-Thesis) -- Plan B can be satisfied by one of the following two options:

Credit requirements:

- 30 semester credit hours of coursework and an essay with a standing of 3.0 (B) or better
- Course requirements:

- HIS 606 HISTORICAL CRITICISM
- At least 21 credit hours at the 600 or 700 level
- Two 700-level research seminars
- At least 21 credit hours of regularly scheduled courses (excludes the following course types: independent study, research, residency, practicum)
- At least 20 credit hours must be from Department of History courses
- Students must write an MA essay under the supervision of a MA advisor. The thesis must be an original work of scholarship and 45-60 pages in length.
- Students must defend the MA essay in an oral examination before an advisory committee that consists of the student's advisor and two other faculty members. The exam will focus on the essay, but the student may also be examined over the MA coursework.
- Meet the MA foreign language requirement as outlined in the Graduate School Bulletin and any additional requirements specified by the student's field.

OR

Credit requirements:

- 36 semester credit hours of coursework and 3 papers with a standing of 3.0 (B) or better
- Course requirements:

- HIS 606 HISTORICAL CRITICISM
- At least 24 credit hours at the 600 or 700 level
- Two 700-level research seminars
- At least 24 credit hours of regularly scheduled courses (excludes the following course types: independent study, research, residency, practicum)
- At least 24 credit hours must be from Department of History courses
- The student must submit three papers to an advisory committee. These papers must have been written for graduate credit in the Department of History's MA program. Two of the

papers must be research papers that demonstrate competence in historical research and writing, and the third should be a historiographical review essay of at least twenty pages. The student will participate in an oral examination before the advisory committee that is based on these papers.

- Meet the MA foreign language requirement as outlined in the Graduate School Bulletin and any additional requirements specified by the student's field.

For more information about the History MA program and its requirements, see: <https://history.as.uky.edu/history-graduate-program/ma-program>

Department of Linguistics

Master of Arts

Linguistic Theory and Typology, MA

The MA in Linguistic Theory & Typology (MALTT) offers training by a world class faculty in theoretical frameworks for approaching descriptive, historical, and sociolinguistic data with a special focus on how grammatical features are distributed across the world's languages. Emphasis is given to language modeling and analysis through computational and quantitative methods. In addition to providing invaluable intellectual preparation for doctoral studies in linguistics, the MALTT program prepares students for careers in high-tech industries, text-based consultancies in law and medicine, and jobs in government agencies.

Admission Requirements

We welcome students with a BA/BS major or minor in Linguistics. Students with degrees in cognate disciplines are also welcome to apply but will have to take an introductory course in linguistics prior to enrollment. We run such a course as a summer online course. Minimum GPA is 3.3. Funded positions are available (TA, RA) on a competitive basis.

Degree Requirements

Students take 30 hours of LIN course work and complete a thesis. The course work must include at least 15 hours taken at the 600 or 700 level. Mandatory courses are LIN 601 RESEARCH METHODS IN LINGUISTICS and LIN 701 RESEARCH SEM IN LIN THEORY AND TYPOLOGY. All students must take a syntax course (LIN 512, LIN 622 or LIN 712) and a phonology course (LIN 515, LIN 615 or LIN 715). Students must also take a course in either morphology (LIN 505, LIN 605, LIN 705) or a course in phonetics (LIN 500, LIN 600 or LIN 700). The thesis component consists of a written research project and oral examination. The thesis must be approved by a committee of three faculty.

Department of Mathematics

Doctor of Philosophy

Mathematics, PhD

The Mathematics PhD is a research degree granted on the basis of broad mathematical knowledge and exhibited creative ability. Course work leading to the doctorate is available in the areas of algebra, analysis, applied mathematics, discrete mathematics, numerical analysis, partial differential equations, and topology. In order to be admitted to candidacy for the PhD degree, a student must complete studies in a minor field (either inside or outside the department) and successfully complete three written preliminary examinations. Subsequent work becomes highly specialized through seminars and independent study. Finally, work on a dissertation is an original contribution to the candidate's major field.

Admission Requirements

The PhD program in Mathematics does not have formal admission requirements other than those of the Graduate School. Admission, however, is competitive. The admissions committee reviews transcripts, letters of recommendation, and the candidate's personal statement, seeking evidence of mastery in proof-based mathematics (such as analysis, topology, and modern algebra), the ability to craft mathematical proofs, and general mathematical maturity.

Degree Requirements

- Complete 36 credit hours.
- Pass three comprehensive examinations prior to advancing to the research stage of the program.
- Complete studies in a minor field (either inside or outside the department).

Master of Arts

Mathematics, MA

The Master of Arts degree, featuring a core program that emphasizes mathematical structures, is designed for prospective community college teachers and for students contemplating studies at the Ph.D. level.

Admission Requirements

The MA program in Mathematics does not have formal admission requirements other than those of the Graduate School. Admission, however, is competitive. The admissions committee reviews transcripts, letters of recommendation, and the candidate's personal statement, seeking evidence of mastery in proof-based mathematics (such as analysis, topology, and modern algebra), the ability to craft mathematical proofs, and general mathematical maturity.

Degree Requirements

- Students must complete 30 hours of graduate work in Mathematics and related areas.
- Of these 30 hours, students must have:
 - At least 20 hours in Mathematics courses,
 - At least 15 hours at the 600 level or above, with
 - At least 12 hours in Mathematics courses at the 600 level or above.
 - There is substantial flexibility in the courses a student may take for the MA degree.
 - Students may select from Plan A (thesis option) or Plan B (non-thesis option).

Master of Science

Mathematics, MS

The Master of Science degree, through an emphasis on the applications of mathematics and the acquisition of computational skills, focuses on careers in business, industry, and government.

Admission Requirements

The MS program in Mathematics does not have formal admission requirements other than those of the Graduate School. Admission, however, is competitive. The admissions committee reviews transcripts, letters of recommendation, and the candidate's personal statement, seeking evidence of mastery in proof-based mathematics (such as analysis, topology, and modern algebra), the ability to craft mathematical proofs, and general mathematical maturity.

Degree Requirements

- Students must complete 30 hours of graduate work in Mathematics and related areas.
- Of these 30 hours, students must have:
 - At least 20 hours in Mathematics courses,
 - At least 15 hours at the 600 level or above, with
 - At least 12 hours in Mathematics courses at the 600 level or above.
 - There is substantial flexibility in the courses a student may take for the MS degree.
 - Students may select from Plan A (thesis option) or Plan B (non-thesis option).

Department of Modern and Classical Languages, Literatures and Cultures

Graduate Certificate

Latin Studies Certificate

The Latin Studies certificate curriculum, consisting of a sequence of four courses in Latin language and literature, aims at two groups of students in particular. First, it is aimed at graduate students who need strong Latin skills for any academic discipline in which Latin is important, including not only classics, but also history, philosophy, theology, etc., and who are already engaged in, or hope to undertake advanced study in one or more of these fields. The certificate curriculum will offer to such students an interdisciplinary opportunity to gain a superior command of Latin in a highly concentrated format, but in a relatively brief period of time. Second, it is aimed at the training of new Latin teachers for the high school level and even pre-high school instruction. The Latin studies certificate curriculum will be highly useful for those interested in teaching Latin, because it will provide a much deeper immersion in Latin language and literature than what has so far been usual for students seeking careers as Latin teachers, and

will ensure that all who complete it acquire not merely reading skills, but also considerable active command of the language.

Teaching English as a Second Language Certificate

The objectives of the 12-credit hour graduate certificate are three-fold:

- Prepare teachers skilled in supporting the development of English language learners
- Provide candidates with a rigorous introduction to the core disciplines in English language teaching: linguistics, language acquisition and pedagogy
- Provide candidates with field-based experiences and in-class teaching opportunities in order to develop practical knowledge and skills of second language classroom teaching practices.

Master of Arts

Classics, MA

The M.A. program in Classics in the Department of Modern and Classical Languages, Literatures, and Cultures offers a degree with courses in Greek and Latin languages, literatures and cultures, as well as allied offerings in ancient and medieval history, ancient and medieval philosophy, archaeology, and Greek and Roman art. The mission of the M.A. Program is to train classicists who would become Latin teachers, or who, having obtained a solid knowledge of the classical languages, would pursue a Ph.D. degree in Classics, History, Philosophy, Divinity, or other related fields.

Greek studies in the M.A. Program have benefitted from in-depth exposure to Homeric Epic, and now offer close contact with faculty who specialize in Hellenistic Greek. A distinctive feature of the program is the study the Latin patrimony from antiquity until modern times. The Neo-Latin patrimony, in particular, immensely vast, multicultural and interdisciplinary in its very nature, provides infinite opportunities for study and research of the classical tradition in many fields and pertaining to many regions and populations. Also, students approach Latin as a living language of teaching, scholarly work, and communication (with the classical authors and among themselves). This fosters a personal connection to the language and is invaluable preparation for the classroom.

Options

- Option A-thesis requires completion of 30 semester credit hours of graduate work, six of which in CLA 768 (Residence Credit for Master's Degree), the defense of a Master's thesis, and an exit exam.
- Option B-non-thesis requires completion of 30 semester credit hours of graduate work and an exit exam.

Admission Requirements

The requirements for admission to the program in Classics are (a) an undergraduate grade point average of 3.0 or above on a 4.0 scale, (b) competence in one of the classical languages (Latin or Greek) and at least basic competence in the other, and (c) a combined score of 297 (new scoring) / 1000 (old scoring) on any two of the three parts of the Graduate Record Examination (GRE). The Director of Graduate Studies may admit students with lower GRE scores or an undergraduate grade point average below 3.0 if, on the basis of a student's last two years of work, Classics grades, or general academic competence. An undergraduate major in Classics, Latin, or Greek is not required for admission, but the Program suggests that entering students should have completed at least six semesters of either Latin or Greek and four semesters of the other language. Students lacking sufficient preparation in one of the classical languages may be required to remedy such deficiencies by taking undergraduate courses.

The following documents should be submitted to the Graduate School's online application system by February 1, if the applicant is seeking financial aid, or before April 30 otherwise:

- A one-page statement describing the applicant's reasons for seeking a Master's degree. If an applicant wants to be considered for financial aid, this is to be indicated in the opening sentence of the personal statement.
- A list of Latin and Greek works read with approximate number of lines.
- Transcripts.
- GRE scores.
- Three letters of reference (normally from former teachers).

Degree Requirements

- The student must have a GPA of 3.0 or higher on a 4.0 scale for all graduate work.
- The student must earn at least half of the semester credit hours in graduate courses numbered 600 or above.
- The student must take at least two-thirds of her/his semester credit hours in regularly scheduled courses and seminars.
- The student must take at least two-thirds of her/his semester credit hours in Classics.

- A student's schedule of courses for each registration period, including any changes, must be approved by the DGS to be acceptable toward the fulfillment of degree requirements.
- Latin prose composition, CLA 501 , is required of all M.A. students.
- A student must earn a minimum of nine credit hours in graduate courses in each of the classical languages and an additional six credit hours in graduate courses in either Greek or Latin or a combination of the two. When special circumstances arise, the DGS has the authority to revise this requirement.
- All students must pass an exit exam before receiving the MA degree.
- The student may transfer up to nine hours from a graduate program at another university or from post-baccalaureate graduate work at UK.
- The student must have taken all course work within eight years of the semester in which the degree is awarded.

M.A. in Classics (track Latin) as a concurrent degree with M.A. in Teaching World Languages (MATWL)

Degree requirements: same as described as above, except for 7. Instead, students pursuing this track are required to take at least 8 graduate courses in Latin (24 credit hours). There is an exit requirement of a minimum of 4 semesters of Greek or equivalent (beginners and intermediate level).

<https://mcl.as.uky.edu/ma-classics>

French, MA

Graduate students in French and Francophone Studies are members of a dynamic intellectual environment. In addition to their coursework in French language, literature, and culture, M.A. candidates at UK pursue their intellectual interests in adjacent fields such as philosophy, history, women's studies, film studies, linguistics, English, and art history. Graduates of the M.A. in French and Francophone Studies program often pursue PhD degrees in French Studies at some of the best doctoral programs in the U.S, including, in recent years, Harvard, Michigan, UPenn, Duke, and Berkeley. Other graduates have gone on to teach in independent schools around the U.S. or have pursued a second Master's degree at the UK in Teaching World Languages (MATWL) or Teaching English as Second Language (MATESL), or through the UK Patterson School of Diplomacy and International Commerce. Others have gone on to law school or graduate programs in, for example, international affairs, education and study abroad administration, or work in the U.S. Department of State.

Admission Requirements

- Evidence of completion of the equivalent of the University of Kentucky's undergraduate major in French
- A minimum 3.25 undergraduate GPA in French on a four-point scale
- A statement of purpose for seeking the M.A. in French and Francophone Studies
- Completion of the GRE
- Three letters of recommendation addressing the applicant's qualifications for graduate work in French
- A writing sample in French by the applicant (analytical prose, typically a graded term paper; not a creative work)
- Non-native speakers of French must submit a digital recording (3-4 minutes) of themselves reading a contemporary prose passage in French (a newspaper or magazine article, not a literary work). Because there is no way to upload this recording directly into the Graduate School's application system, applicants should send the recording as an email attachment directly to the Director of Graduate Studies.
- Non-native speakers of English must submit a digital recording of themselves reading a contemporary prose passage in English (a newspaper or magazine article, not a literary work). Because there is no way to upload this recording directly into the Graduate School's application system, applicants should send the recording as an email attachment directly to the Director of Graduate Studies. In addition, they must fulfill the UK Graduate School's Test of English as a Foreign Language (TOEFL) requirement.

Degree Requirements

- 30 credit hours
- FR 553 TEACHING OF FRENCH
- 27 hours of graduate-level coursework in French and Francophone Studies
- Successful completion of the Master's Examination during the fourth semester of study
- Documented reading proficiency, as defined by the UK Graduate School, in a second world language

<https://mcl.as.uky.edu/ma-french>

German, MA

The Department of Modern and Classical Languages, Literatures and Cultures offers a graduate program leading to the M.A. (Plan A or B) degree in German.

The general goal of graduate work in German is to provide students with a critical understanding of German culture, its language and literature and its relationship to western civilization as a whole. Specific courses are designed to acquaint students with the aims and methods of research in the fields of language pedagogy, literary and cultural history, literary theory, and historical linguistics. Students working as teaching assistants under faculty supervision have ample opportunity to develop effective teaching skills in a controlled setting.

Individual programs of study are planned with consideration of the student's competencies and interests. The Department endeavors to be flexible and to accommodate career goals in teaching, government service, or research. Areas of specialization of the graduate faculty of the department afford flexible coverage in breadth and depth, with particular strength in early modern studies, the Age of Goethe, Wilhelmine and Weimar culture, contemporary literature and culture, literary theory, intellectual history, gender studies, and foreign language pedagogy. The Department serves as the editorial center for the international journal *Colloquia Germanica*. The University Library has substantial holdings in all areas of German language, linguistics and literature and in supporting fields.

Admission Requirements

Admission requirements include an acceptable undergraduate major in German, a satisfactory score on the Graduate Record Examination (GRE), and three letters of recommendation. Applicants lacking more comprehensive knowledge of German language and literature may be admitted with the understanding that their program must include some advanced undergraduate work in addition to those courses normally required for the M.A.

Degree Requirements

Plan A (thesis):

- 30 total credit hours
- 24 credit hours in GER prefix courses not including GER 768 RESIDENCE CREDIT FOR MASTER'S DEGREE
- Graduate foreign language requirement, normally in French

- Completion of a thesis and oral examination

Plan B (non-thesis):

- 30 total credit hours, of which 24 must be in courses with the GER prefix
- Graduate foreign language requirement, normally in French
- An oral and written examination

<https://mcl.as.uky.edu/ma-german>

Teaching English as a Second Language, MA

The Department of Modern and Classical Languages, Literatures and Cultures offers a graduate program leading to the M.A. degree in Teaching English as a Second Language - MATESL (36 cr.). The general goal of graduate work in the program is to provide students with a quality teacher education program that will prepare candidates for a satisfying career in language teaching.

Admission Requirements

- Transcript showing a Bachelor's degree with a minimum GPA of 2.75. If applicant has taken graduate courses, a minimum GPA of 3.0 is required.
- Three Letters of Recommendation
- Essay
- TOEFL score: 89 ibt

Degree Requirements

The MA degree requires a total of 36 graduate credit hours, distributed across the required courses below. This course work includes two teaching practica, a supervised internship and the TESL Professional Portfolio.

- TSL 560 LITERACY DEVELOPMENT IN THE ESL CLASSROOM (3 cr.)

- MCL 510 TEACHING METHODS: YOUNG LEARNERS & BEGINNING LEVEL STUDENTS (3cr.)
- TSL 515 ENGLISH LANGUAGE DEVELOPMENT IN THE CONTENT CLASSROOM (3 cr.) Or MCL 665 SECOND LANGUAGE CURRICULUM & ASSESSMENT (3 cr.)
- MCL 517 SECOND LANGUAGE ACQUISITION / LIN 517 SPECIAL TOPICS IN LINGUISTICS (SUBTITLE REQUIRED) (3cr.)
- MCL 575 INTRODUCTION TO LINGUISTICS AND LANGUAGE STRUCTURE (3cr.)
- MCL 610 WORLD LANGUAGE METHODS 9-12 (3 cr.)
- TSL 675 ENGLISH GRAMMAR: ANALYSIS & PEDAGOGY (3 cr.)
- MCL 690 CULTURE, COGNITION, & SECOND LANGUAGE (3 cr.)
- TSL 697 ESL INTERNSHIP (9 cr.)
- One Elective: 500/600 level course from Education, Linguistics or related field (3 cr.)

TESL Website: <https://mcl.as.uky.edu/tesl>

Teaching World Languages, MA

The goal of the Master of Arts in Teaching World Languages (MATWL) program is to prepare the highest quality language educators for the state of Kentucky and beyond. The MATWL program is designed to prepare candidates who will possess a high level of content knowledge, excel in pedagogy, and perform as competent professional language educators.

Typical applicants include anyone with a BA from a US institution or the equivalent, teachers who are employed with an emergency certification and second-career professionals as well as teachers seeking professional development.

The MATWL program offers a number of advantages for applicants in that it can be completed in one year or can be extended to multiple years for those who are unable to take the required courses as full-time students. Students complete their coursework with a field internship in a public school where they teach with a cooperating teacher.

The program is offered in the Department of Modern and Classical Languages, Literatures, and Cultures in cooperation with the Department of Hispanic Studies and the College of Education. MATWL graduates can specialize in Arabic, Chinese, French, German, Latin, Japanese, Russian, or Spanish.

Admission Requirements

Applicants for admission must be concurrently approved by the Graduate School and the Teacher Education Program (TEP). Applicants are reviewed by the Director the MATWL Program in consultation with the MATWL Program Faculty Committee.

Candidates seeking admission to the MATWL program must meet the following requirements.

- Language proficiency. Students must demonstrate proficiency in the target language with a rating of at least Advanced Low on the ACTFL Oral Proficiency Interview (Intermediate High for Russian, Chinese, & Arabic). Oral Proficiency Interviews can be taken through ACTFL or by contacting the director to schedule one for a particular language). Candidates must also document a course of study that reflects mastery of language structure, a broad range of modern and classical literature, and the history of the relevant culture(s). Candidates in Latin must document a course of study that reflects mastery of language structure, knowledge of the literature, history, mythology, and culture of ancient Rome and Greece, and proficiency in oral reading.
- Undergraduate BA in the Language of study. Documentation of such a course of study typically consists of an undergraduate major in a world language or equivalent. Although each language area has its unique requirements, candidates typically have 48 to 66 credit hours in their academic teaching specialties.
- A minimum 2.75 overall undergraduate GPA, a minimum 3.0 GPA in the language-specific field, and a minimum 3.0 GPA in any previous graduate work
- A passing GRE Score. Quantitative: 143; Verbal 150; Analytical Writing: 4.0
- 200 hours of experience with children 6 to 13 years of age and 14- to 18-year old adolescents as well as community and cross-cultural experience.

Degree Requirements

Total credit hours: 36 credit hours

Core requirements. Students take the following courses.

- MCL 510 TEACHING METHODS: YOUNG LEARNERS & BEGINNING LEVEL STUDENTS (3 credits)
- MCL 610 WORLD LANGUAGE METHODS 9-12 (3 credits)
- EDC 610 DISCIPLINE AND CLASSROOM MANAGEMENT (3 credits)
- EDS 600 SURVEY OF SPECIAL EDUCATION (3 credits)
- MCL 690 CULTURE, COGNITION, & SECOND LANGUAGE or an EDP course at the 500- or 600-level (3 credits)
- MCL 601 WORLD LANGUAGE TEACHING INTERNSHIP P-12 (12 credits)
- Students also take 3 courses (9 credits) of their specialty language at the graduate level. These are generally taken in the Fall of their first semester.
- Students complete their student teaching (MCL 601 Teaching Internship) in two placements-one at the elementary level, and one at the 6-12 level-at local schools in the Spring semester.

<https://mcl.as.uky.edu/matwl>

Department of Philosophy

Doctor of Philosophy

Philosophy, PhD

The Department of Philosophy at the University of Kentucky offers programs of study leading to the Doctor of Philosophy degree. Applicants may, once admitted to the Ph.D. program, apply to leave the program with an M.A. only.

The purpose of the Ph.D. program is to develop the student's ability to complete a Doctoral degree successfully. Doing so will enable the student to do independent research in philosophy, to secure an academic job at the University or College level, or to pursue a career in which rigorous and critical thinking are desired.

The purpose of the M.A. degree is to provide the student with a fundamental understanding of the major historical and contemporary points of view in all of the basic areas of philosophical inquiry and to develop the student's capacity to formulate and analyze philosophical problems. Such a degree

is suitable either as preparation for further study in Philosophy or as a complement to advanced training in a variety of other fields.

Admission Requirements

It is expected that candidates admitted to the graduate program in philosophy will: (1) provide proof of completion of a B.A., B.S., or M.A.; (2) have given evidence of superior skills on the GRE; (3) have achieved an overall grade-point average of at least 3.2 (4.0 scale) in all undergraduate course work; and (4) have achieved an overall grade-point average of at least 3.5 in all graduate course work.

Degree Requirements

Satisfactory progress through the Ph.D. program is typically made by fulfilling seven general requirements, each merely summarized here. (The requirements are more technical than this: please refer only to the official program regulations for the authoritative statement of the requirements).

- At least 52 hours of course work (including 4 hours of PHI 767), with specific distributional requirements.
- Satisfactory completion of PHI 741 and PHI 742 (1st year Prosem).
- Satisfactory completion of PHI 740 (Teaching Practicum).
- Satisfactory completion of PHI 520 : Logic, or its equivalent.
- Satisfactory demonstration of reading competence in one foreign language relevant to the student's philosophical program of study (e.g., Greek, Latin, French, or German).
- Satisfactory completion of three steps preparatory to writing the dissertation: the Area Proposal, the Qualifying Exam, the Dissertation Proposal (each of these steps has written and oral components).
- Satisfactory completion and oral defense of a Dissertation.

The coursework requirements differ depending on previous graduate coursework, specifically whether one enters with no

M.A. in Philosophy, a one-year M.A. in Philosophy, a two-year M.A. in Philosophy. See these checklists for summaries:

- Checklist of PhD requirements (no previous M.A.)
- Checklist of PhD requirements (previous one-year M.A.)
- Checklist of PhD requirements (previous two-year M.A.)

Department of Physics and Astronomy

Doctor of Philosophy

Physics, PhD

The Department of Physics and Astronomy offers courses and research opportunities leading to the M.S. and Ph.D. degrees in the areas of astronomy and astrophysics, atomic and molecular physics, low and intermediate energy nuclear physics, condensed matter physics, and particle physics. More detailed descriptions of each of these options is available at <https://pa.as.uky.edu/pa-faculty-research>.

Opportunities exist for experimental, theoretical, and computational, and observational research. Excellent laboratory facilities and library materials are available. Major facilities located within the Department are the six million volt Van de Graaff accelerator and the Center for Advanced Materials. Computational resources include the Lipscomb HPC cluster and access to XSEDE, NERSC, TACC, JLab and BNL. The Department is active in research at many national laboratories, including Jefferson Lab (Virginia), Oak Ridge National Lab (Tennessee), Los Alamos National Lab (New Mexico), Argonne National Lab. (Illinois), Brookhaven National Lab (New York), Triangle Universities Nuclear Lab (North Carolina), National High Magnetic Field Facility (Florida), and Lawrence Berkeley Lab (California) as well as international laboratories including Paul Scherrer Institute (Switzerland), TRIUMF (Vancouver), and MAX-lab (Sweden). In astronomy our students conduct research at facilities including the National Radio Astronomy Observatory (West Virginia), Arecibo Observatory (Puerto Rico), Kitt Peak National Observatory (Arizona), McDonald Observatory (Texas), and the Hubble Space Telescope, and participate in collaborations including Sloan Digital Sky Survey-IV (SDSS-IV) and the Large Synoptic Survey Telescope (LSST). Such activities expose our graduate students to state-of-the-art instrumentation and world-class researchers.

Admission Requirements

In addition to the admissions requirements of the Graduate School, the Department of Physics & Astronomy requires graduate applicants to have a sound foundation in undergraduate physics. This foundation will normally include advanced courses in classical mechanics, electromagnetism and quantum mechanics. Applicants are encouraged to take the GRE physics subject exam. Applicants wishing to apply for financial aid in the form of a teaching assistantship, research assistantship or fellowship must supply letters of recommendation from three individuals familiar with their academic capabilities. Such applicants must also submit a written statement of their interests and background in physics.

Admissions requirements are the same for the M.S. and the Ph.D. programs except that applicants for the Ph.D. must possess an interest in carrying out original research at the advanced level.

Degree Requirements

Requirements to be Added

The Ph.D. degree is a research degree granted on the basis of broad knowledge of physics and in-depth research in a specific area leading to a dissertation (and generally publications in appropriate refereed journals). Students may perform this research at the University of Kentucky or appropriate collaborating institutions. Before taking the Ph.D. qualifying exam, the student must pass the Physics GRE at the 50th percentile or higher and satisfactorily pass core courses in graduate classical mechanics, electromagnetism, quantum mechanics, and statistical mechanics, as well as electives in topical areas of modern physics.

Master of Science

Physics, MS

The Department of Physics and Astronomy offers courses and research opportunities leading to the M.S. and Ph.D. degrees in the areas of astronomy and astrophysics, atomic and molecular physics, low and intermediate energy nuclear physics, condensed matter physics, and particle physics. More detailed descriptions of each of these options is available at <https://pa.as.uky.edu/pa-faculty-research>.

Opportunities exist for experimental, theoretical, and computational, and observational research. Excellent laboratory facilities and library materials are available. Major facilities located within the Department are the six million volt Van de Graaff accelerator and the Center for Advanced Materials. Computational resources include the Lipscomb HPC cluster and access to XSEDE, NERSC, TACC, JLab and BNL. The Department is active in research at many national laboratories, including Jefferson Lab (Virginia), Oak Ridge National Lab (Tennessee), Los Alamos National Lab (New Mexico), Argonne National Lab. (Illinois), Brookhaven National Lab (New York), Triangle Universities Nuclear Lab (North Carolina), National High Magnetic Field Facility (Florida), and Lawrence Berkeley Lab (California) as well as international laboratories including Paul Scherrer Institute (Switzerland), TRIUMF (Vancouver), and MAX-lab (Sweden). In astronomy our students conduct research at facilities including the National Radio Astronomy Observatory (West Virginia), Arecibo Observatory (Puerto Rico), Kitt Peak National Observatory (Arizona), McDonald Observatory (Texas), and the Hubble Space Telescope, and participate in collaborations including Sloan Digital Sky Survey-IV (SDSS-IV) and the Large Synoptic Survey Telescope (LSST). Such activities expose our graduate students to state-of-the-art instrumentation and world-class researchers.

Admission Requirements

In addition to the admissions requirements of the Graduate School, the Department of Physics & Astronomy requires graduate applicants to have a sound foundation in undergraduate physics. This foundation will normally include advanced courses in classical mechanics, electromagnetism and quantum mechanics. Applicants are encouraged to take the GRE physics subject exam. Applicants wishing to apply for financial aid in the form of a teaching assistantship, research assistantship or fellowship must supply letters of recommendation from three individuals familiar with their academic capabilities. Such applicants must also submit a written statement of their interests and background in physics.

Admissions requirements are the same for the M.S. and the Ph.D. programs except that applicants for the Ph.D. must possess an interest in carrying out original research at the advanced level.

Degree Requirements

The M.S. program can include an emphasis on basic or applied physics or physics education, and students are encouraged to take courses in related programs that satisfy the appropriate academic objectives. Before taking the M.S. oral exam, the M.S. student must have completed (with a B average):

Plan A (thesis):

30 credit hours in approved graduate courses including:

- 16 hours of regularly scheduled courses (excludes the following course types: research, independent study, practicum, residency)
- 16 hours with PHY prefix (not including 768 hours)
- 12 hours at the 600/700 level (not including 768 hours)
- 2 hours of PHY 770
- Up to 6 hours of PHY 768 (optional)

Plan B (non-thesis):

30 credit hours in approved graduate courses including:

- 20 hours of regularly scheduled courses (excludes the following course types: research, independent study, practicum, residency)
- 20 hours with PHY prefix
- 15 hours at the 600/700 level

Department of Political Science

Doctor of Philosophy

Political Science, PhD

The Ph.D. program is divided into a general phase and a specialized phase. Entering students spend their first year in the general phase, which includes proseminars in methodology and in the major fields of political science. Students who have previously taken graduate work may be exempt from some of these proseminars. At the end of the first year of graduate work, the student is evaluated by a departmental committee which determines whether the general phase has been satisfactorily completed. During the specialized phase of the graduate program, the student's work is based on a program of study prepared with their Advisory Committee. The student takes advanced work in at least two substantive fields in political science, a major and a minor field. Possible major fields include: American politics, Comparative politics, and International Relations. The possible minor fields are:

American, Comparative, International Relations, Institutions, Behavior, Policy, Methods (the major and minor field cannot be the same).

The student completes qualifying exams evaluated by faculty field committees that consist of written and oral examinations in each of the two substantive fields specified in the student's program prior to defending the prospectus for the dissertation. The qualifying examination in political science consists of the prospectus defense given by the Advisory Committee. The student then writes a dissertation and defends it in a final oral examination. Candidates for the Ph.D. in political science must demonstrate proficiency in a research skill. The required research skill will consist of additional quantitative skills or proficiency in a foreign language that is directly pertinent to the student's research interests. Additional details about requirements may be secured from the Department of Political Science.

Admission Requirements

Candidates for admission to the graduate program in political science must apply using the Graduate College online application system. Required information includes (1) a copy of transcripts and GRE scores; (2) a one- to three-page Statement of Purpose explaining why the student wishes to pursue a Ph.D. degree; (3) three letters of recommendation from persons familiar with the applicant's academic performance; (4) a sample of writing on a topic relevant to political science; (5) a resume or curriculum vitae, and (6) TOEFL scores if the applicant's first language is not English. Applications will only be considered for the fall semester.

Applicants will be evaluated on the basis of the Department's judgment of the likelihood of their success in the program as compared with other applicants and considering the limited number of applicants accepted to the program. In evaluating candidates, the Department will consider the totality of their records, including grades, test scores, letters of recommendation, writing samples, and other relevant information. The department usually only accepts applicants to the PhD. program. Students who do not have political science undergraduate majors are welcome in this program.

Degree Requirements

Core course requirements

- PS 572 INTRODUCTION TO QUANTITATIVE POLITICAL METHODOLOGY
 - PS 671 STRATEGIES OF INQUIRY IN POLITICAL SCIENCE
 - PS 672 INTRODUCTION TO TECHNIQUES OF POLITICAL RESEARCH
 - 3 of the following field seminars
 - PS 620 COMPARATIVE POLITICS: THEORY AND METHOD
 - PS 674 PROSEMINAR IN THEORIES OF INTERNATIONAL POLITICS
 - PS 680 PROSEMINAR IN POLITICAL INSTITUTIONS AND PROCESS
 - PS 681 AMERICAN POLITICAL BEHAVIOR
 - 3 additional courses in the major field
 - 2 additional courses in the minor field
- Required Courses related to the dissertation
- PS 796 DIRECTED RESEARCH IN POLITICAL SCIENCE
 - PS 767 DISSERTATION RESIDENCY CREDIT

Ph.D. students must demonstrate proficiency in a research skill. The required research skill will consist of additional quantitative skills (usually an additional class) or proficiency in a foreign language that is directly pertinent to the student's research interests.

Master of Arts

Political Science, MA

The M.A. degree may be earned under either of two plans: Plan A requires at least 30 hours, with 6 hours coming from 768 for the thesis; Plan B requires at least 30 hours of course work, passing (written and orals) in two fields of political science with a standing of a 3.0 GPA or higher, and satisfaction of the language or alternative skill requirement.

Under either plan, the student must take at least two-thirds of the required semester hours in political science, and at least half of the required hours must be in courses at the 600 or 700 level. All students pursuing the M.A. degree must take PS 671 (Strategies of Inquiry).

Admission Requirements

Candidates for admission to the graduate program in political science must apply using the Graduate College online application system. Required information includes (1) a copy of transcripts and GRE scores; (2) a one- to three-page Statement of Purpose explaining why the student wishes to pursue a Ph.D. degree; (3) three letters of recommendation from persons familiar with the applicant's academic performance; (4) a sample of writing on a topic relevant to political science; (5) a resume or curriculum vitae, and (6) TOEFL scores if the applicant's first language is not English. Applications will only be considered for the fall semester.

Applicants will be evaluated on the basis of the Department's judgment of the likelihood of their success in the program as compared with other applicants and considering the limited number of applicants accepted to the program. In evaluating candidates, the Department will consider the totality of their records, including grades, test scores, letters of recommendation, writing samples, and other relevant information. The department usually only accepts applicants to the PhD. program. Students who do not have political science undergraduate majors are welcome in this program.

Degree Requirements

30 credit hours

Required courses:

- Plan A: PS 671 and 6 credits of PS 768
- Plan B: PS 671

At least two-thirds of the semester hours in political science (excluding PS 768 hours)

At least half of the required hours must be in courses at the 600 or 700 level (excluding PS 768 hours)

Department of Psychology

Doctor of Philosophy

Psychology - Clinical Psychology, PhD

The department offers the Ph.D. degree in psychology in two programs: clinical psychology and experimental psychology, the latter subdivided into cognitive neuroscience, and

developmental, social, and health psychology. The major goal of the doctoral programs in psychology is to prepare the student for a career in research in both academic and non-academic settings and in teaching.

The area of specialization in clinical psychology provides academic courses, practica, and internships which permit students to combine their teaching and research activities with a clinical career in the mental health field. Special areas of expertise among clinical faculty include psychological assessment, child clinical psychology, health psychology, neuropsychology, personality, psychopathology and diagnosis, psychotherapy, research methodologies, and substance abuse. Clinical training is facilitated by early placement of students at a variety of sites including medical centers, a federal corrections facility, community mental health centers, state and private psychiatric hospitals, and the department's own psychological clinic. Our doctoral program is accredited by the American Psychological Association and by the Psychological Clinical Science Accreditation System.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Health Psychology Concentration
- Neuropsychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning

the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see [https:// psychology.as.uky.edu/](https://psychology.as.uky.edu/)

Degree Requirements

Total credit hours: 36 hours of pre-qualifying residency required

Core requirements

The required courses for clinical students are:

- Introduction to Clinical Psychology (PSY 629)
- Psychological Assessment and Practicum (PSY 630 PSY 631 PSY 632 PSY 633)
- Systems of Psychotherapy (PSY 636)
- Psychopathology (PSY 603)
- Psychological Statistics (PSY 610 & PSY 611)
- Research Design (PSY 616)
- History and Systems (PSY 620)
- Professional Issues in Clinical Psychology (PSY 708)
- Broad Training in Social Psychology (PSY 780) or Social Proseminar
- Broad Training in Cognitive Psychology (PSY 780) or Cognitive Proseminar
- Broad Training in Physiological Psychology (PSY 780) or Physio Proseminar
- Broad Training in Developmental Psychology (PSY 780) or Developmental Proseminar
- Ethics (PSY 710)
- Multicultural Psychology (PSY 710 or, with permission, EDP 616)
- One additional advanced clinical seminar (PSY 710) emphasizing clinical science and integrative topical training (e.g. Dialectical Behavior Therapy; Child Psychopathology; PTSD, Personality)

- Practicum in Psychological Assessment & Intervention (PSY 637 and PSY 639). 2nd through 4th years - you must have a minimum of 3 semesters of advanced group supervision (3 credits per semester). Most students have at least 2 full years of PSY 637 training. The beginning supervision group and the summer groups do not contribute to this requirement. In addition, you must continue to register for one credit of PSY 637 for each semester in which you will have clinical contacts as part of the training program. PSY 639 is required in the summers for students involved in any type of clinical training.
- Practicum in Psychological Assessment & Intervention (SUMMER PSY 639) - 0 credit. You MUST be registered for this during the summer if you have any type of clinical contact (client, assessment, clinical research, or practicum).
- Master's Thesis Research/Research Pre-quals (PSY 790)
- Residency/Dissertation Credits (PSY 767)
- Internship (PSY 708)

General information on electives

- Most students will complete elective courses in addition to those listed above. Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Psychology - Experimental Psychology, PhD

The department offers the Ph.D. degree in psychology in two programs: clinical psychology and experimental psychology, the latter subdivided into cognitive neuroscience, and developmental, social, and health psychology. The major goal of the doctoral programs in psychology is to prepare the student for a career in research in both academic and non-academic settings and in teaching.

The Cognitive Neuroscience program is intended for students who wish to study the underlying neural systems of cognitive processes. It provides a strong background in both systems-level neuroscience and cognitive psychology and allows students to develop integrative research interests that cross domains. Research includes a range of topics and

methodologies aimed at understanding mechanisms of behavior in laboratory animals and human subjects. Drug use and addictive behaviors are a key focus. Levels of analysis include cellular function, animal behavior, and human substance users. Methodologies include electrochemical measurements, chemogenetics, neuronal cell culture, psychopharmacology, analytical chemistry, quantitative modeling of cognitive functions and decision-making, and fMRI.

In the Developmental, Social, Health program, students typically receive primary conceptual and methodological training in Developmental Psychology, Social Psychology, OR Health Psychology (each are "tracks" within our program). This training will reflect the expertise of your advisor (and lab) in their respective subfield (e.g., Social Psychology) and will prepare you for the academic job market in this subfield. As some faculty in the Developmental, Social, and Health program are truly "hybrid" psychologists (equivalent expertise in Social and Developmental Psychology, for example), students may also gear training across subfields by pursuing relevant coursework, research collaborations, teaching experiences, etc.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the 2 advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Cognitive Neuroscience Area
- Developmental, Social, & Health Area
- Health Psychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see [https:// psychology.as.uky.edu/](https://psychology.as.uky.edu/)

Degree Requirements

Total credit hours: 36 hours of pre-qualifying residency required

Core requirements

• **Cognitive Neuroscience:**

- Statistics sequence: PSY 610 - Experimental design PSY 611 - Correlational design
- PSY 780 - Problems in Psychology: Directed Readings in Cognitive Neuroscience (section to be determined each semester)
- Any three proseminars selected from the following areas: * note that another course (typically a 700-level course) may be substituted for one or more of these proseminars, pending approval of the student's supervisory committee:
 - Learning
 - Cognitive processes
 - Developmental Psychology
 - Sensation & Perception
 - Physiological Psychology
- Four electives (a minimum of one of these must be outside of the Psychology Department)
- Additional course work as recommended by the advisory committee
- Residency/Dissertation Credits (PSY 767)

• **Developmental, Social, & Health:**

- Statistics sequence: PSY 610 - Experimental design PSY 611 - Correlational design
- Any three proseminars offered by the Department of Psychology, with the general expectation that Developmental (PSY 625), Social (PSY 624), and/or Health Psychology proseminars will be completed.
- Additional coursework or experience - typically advanced topical or methods seminars - as recommended by advisory committees, primary advisor, and/or program coordinator.

- Residency/Dissertation Credits (PSY 767)

General information on electives

- Most students will complete elective courses in addition to those listed above. Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

- <https://psychology.as.uky.edu/psych-application-info>

Master of Arts

Psychology - Clinical Psychology, MA

Students earn a MA/MS degree as part of their milestone towards earning their doctoral degree in the Clinical Psychology PhD program. The MA/MS degree in Clinical Psychology is not intended to be a stand-alone or terminal degree program. Students seeking only a MA or MS degree are not admitted to the program.

The Ph.D. program in Clinical provides academic courses, practica, and internships which permit students to combine their teaching and research activities with a clinical career in the mental health field. Special areas of expertise among clinical faculty include psychological assessment, child clinical psychology, health psychology, neuropsychology, personality, psychopathology and diagnosis, psychotherapy, research methodologies, and substance abuse. Clinical training is facilitated by early placement of students at a variety of sites including medical centers, a federal corrections facility, community mental health centers, state and private psychiatric hospitals, and the department's own psychological clinic. Our doctoral program is accredited by the American Psychological Association and by the Psychological Clinical Science Accreditation System.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological

statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Health Psychology Concentration
- Neuropsychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see [https:// psychology.as.uky.edu/](https://psychology.as.uky.edu/)

Degree Requirements

Total credit hours: 30

Core requirements

- See requirements for Clinical Psychology PhD program

General information on electives

- Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Psychology - Experimental Psychology, MA

Students earn a MA/MS degree as part of their milestone towards earning their doctoral degree in the Experimental Psychology PhD program. The MA/MS degree in Experimental Psychology is not intended to be a stand-alone or terminal degree program. Students seeking only a MA or MS degree are not admitted to the program.

The Ph.D. program in experimental psychology is subdivided into cognitive neuroscience, and developmental, social, and health psychology. The Cognitive Neuroscience program is intended for students who wish to study the underlying neural systems of cognitive processes. It provides a strong background in both systems-level neuroscience and cognitive psychology and allows students to develop integrative research interests that cross domains. Research includes a range of topics and methodologies aimed at understanding mechanisms of behavior in laboratory animals and human subjects. Drug use and addictive behaviors are a key focus. Levels of analysis include cellular function, animal behavior, and human substance users. Methodologies include electrochemical measurements, chemogenetics, neuronal cell culture, psychopharmacology, analytical chemistry, quantitative modeling of cognitive functions and decision-making, and fMRI.

In the Developmental, Social, Health program, students typically receive primary conceptual and methodological training in Developmental Psychology, Social Psychology, OR Health Psychology (each are "tracks" within our program). This training will reflect the expertise of your advisor (and lab) in their respective subfield (e.g., Social Psychology) and will prepare you for the academic job market in this subfield. As some faculty in the Developmental, Social, and Health program are truly "hybrid" psychologists (equivalent expertise in Social and Developmental Psychology, for example), students may also gear training across subfields by pursuing relevant coursework, research collaborations, teaching experiences, etc.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Cognitive Neuroscience Area
- Developmental, Social, & Health Area
- Health Psychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see <https://psychology.as.uky.edu/>

Degree Requirements

Total credit hours: 30

Core requirements

- See requirements for Experimental Psychology PhD program

General information on electives

- Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Master of Science

Psychology - Clinical Psychology, MS

Students earn a MA/MS degree as part of their milestone towards earning their doctoral degree in the Clinical

Psychology PhD program. The MA/MS degree in Clinical Psychology is not intended to be a stand-alone or terminal degree program. Students seeking only a MA or MS degree are not admitted to the program.

The Ph.D. program in Clinical provides academic courses, practica, and internships which permit students to combine their teaching and research activities with a clinical career in the mental health field. Special areas of expertise among clinical faculty include psychological assessment, child clinical psychology, health psychology, neuropsychology, personality, psychopathology and diagnosis, psychotherapy, research methodologies, and substance abuse. Clinical training is facilitated by early placement of students at a variety of sites including medical centers, a federal corrections facility, community mental health centers, state and private psychiatric hospitals, and the department's own psychological clinic. Our doctoral program is accredited by the American Psychological Association and by the Psychological Clinical Science Accreditation System.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Health Psychology Concentration
- Neuropsychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning

the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see [https:// psychology.as.uky.edu/](https://psychology.as.uky.edu/)

Degree Requirements

Total credit hours: 30

Core requirements

- See requirements for Clinical Psychology PhD program

General information on electives

- Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Psychology - Experimental Psychology, MS

Students earn a MA/MS degree as part of their milestone towards earning their doctoral degree in the Experimental Psychology PhD program. The MA/MS degree in Experimental Psychology is not intended to be a stand-alone or terminal degree program. Students seeking only a MA or MS degree are not admitted to the program.

The Ph.D. program in experimental psychology is subdivided into cognitive neuroscience, and developmental, social, and health psychology. The Cognitive Neuroscience program is intended for students who wish to study the underlying neural systems of cognitive processes. It provides a strong background in both systems-level neuroscience and cognitive psychology and allows students to develop integrative research interests that cross domains. Research includes a range of topics and methodologies aimed at understanding mechanisms of behavior in laboratory animals and human subjects. Drug use and addictive behaviors are a key focus. Levels of analysis include cellular function, animal behavior, and human substance users. Methodologies include electrochemical measurements, chemogenetics, neuronal cell culture, psychopharmacology, analytical chemistry, quantitative modeling of cognitive functions and decision-making, and fMRI. In the Developmental, Social, Health program, students typically receive primary conceptual and methodological training in Developmental Psychology, Social Psychology, OR

Health Psychology (each are "tracks" within our program). This training will reflect the expertise of your advisor (and lab) in their respective subfield (e.g., Social Psychology) and will prepare you for the academic job market in this subfield. As some faculty in the Developmental, Social, and Health program are truly "hybrid" psychologists (equivalent expertise in Social and Developmental Psychology, for example), students may also gear training across subfields by pursuing relevant coursework, research collaborations, teaching experiences, etc.

Traditions of both experimental laboratory research and naturalistic study are utilized; emphases include theoretical and applied significance of research. Each student's course of study is individually designed to fit that student's particular needs and interests. Research experience in related behavioral sciences (for example, communication, marketing, behavioral sciences) is encouraged. During the first year of the doctoral program, students in all areas gain experience in the major content areas of psychology and in psychological statistics. Thereafter, the student and the advisor construct a program of study consistent with the academic interests and professional goals of the student. M.A. and M.S. degrees are awarded under Plan A only, as one component of doctoral training.

Options and specialties

- Cognitive Neuroscience Area
- Developmental, Social, & Health Area
- Health Psychology Concentration

Admission Requirements

The minimum departmental standards for admission to graduate work in psychology include an undergraduate overall average of B or better, a satisfactory score on the verbal and quantitative portions of the Graduate Record Examination (GRE) and three letters of recommendation. All admissions are on a competitive basis. For additional information concerning the program in psychology and such matters as financial support, contact the Director of Graduate Studies, Department of Psychology or see [https:// psychology.as.uky.edu/](https://psychology.as.uky.edu/)

Degree Requirements

Total credit hours: 30

Core requirements

- See requirements for Experimental Psychology PhD program

General information on electives

- Elective courses providing advanced coverage of a variety of topics are available most semesters. Consult the Schedule of Classes for each semester's offerings.

<https://psychology.as.uky.edu/psych-application-info>

Department of Sociology

Doctor of Philosophy

Sociology, PhD

The Sociology graduate program offers Master of Arts and Doctor of Philosophy degrees. Graduate students choose an area of specialization related to the following faculty areas of expertise: Crime, Law, and Deviance; Environment and Society; Health and Medical Sociology, and Social Inequalities. Additionally, students must demonstrate competence in sociological theory and social science research methods.

To aid in financing graduate education, a number of teaching or research assistantships are available to qualified students. Outstanding students may compete for fellowships.

Opportunities for multidisciplinary work exist in conjunction with centers and programs at the University of Kentucky including the Appalachian Center and Appalachian Studies, Center for Health Equity Transformation, Center for Research on Violence Against Women, Prevention Research Center, Center on Drug and Alcohol Abuse, Center for Poverty Research, Committee on Social Theory, Commonwealth Institute for Black Studies, Cooperative for Humanities and Social Sciences, Gender and Women's Studies, Quantitative Initiative for Policy and Social Research, and the Sanders-Brown Center on Aging. Assistantships and traineeships are also available to qualified sociology graduate students through these centers and programs.

Admission Requirements

The following materials are required to apply for admission to the graduate program in Sociology and should be sent directly to the Graduate School's application system website. Any inquiry on the program requirements and the admission process should be directed to the Director of Graduate Studies of the Department of Sociology.

- The percentile rankings of the three components of the Graduate Record Examination (GRE) must average (mean) at least 50 percent.
- A statement of goals and reasons for pursuing an advanced degree in sociology. It is helpful if applicants also address the field(s) of interest within sociology they may wish to pursue in their graduate studies.
- A sample of writing, preferably in the form of a term paper, an extensive essay, or a draft of a senior thesis. If the applicant has completed a master's degree, she or he may submit one or two chapters from the master's thesis. Please do not submit a copy of the entire master's thesis.
- Three letters of recommendation.
- Undergraduate and graduate transcripts, if applicable.
- TOEFL/IELTS scores, if applicable.

Degree Requirements

36 total credit hours pre-residency

Core requirements

- SOC 681 QUANTITATIVE ANALYSIS I
- SOC 781 QUANTITATIVE DATA ANALYSIS II
- SOC 651 CLASSICAL SOCIOLOGICAL THEORY
- SOC 751 CONTEMPORARY SOCIOLOGICAL THEORY
- SOC 680 SOCIAL INVESTIGATION

Students are also required to take an addition 6 credit hours of social science research methods from a wide selection of approved courses.

Of the 15 hours of electives, 12 must be sociology courses and 12 must be in the student's area of specialization.

Ph.D. students must also pass a comprehensive exam, qualifying exam, dissertation prospectus defense, and dissertation defense.

<https://soc.as.uky.edu/sociology-graduate-program>

Master of Arts

Sociology, MA

The Sociology graduate program offers Master of Arts and Doctor of Philosophy degrees. Plan A or B are both options for the Master's degree. Graduate students choose an area of specialization related to the following faculty areas of expertise: Crime, Law, and Deviance; Environment and Society; Health and Medical Sociology, and Social Inequalities. Additionally, students must demonstrate competence in sociological theory and social science methods.

To aid in financing graduate education, a number of teaching or research assistantships are available to qualified students. Outstanding students may compete for fellowships.

Opportunities for multidisciplinary work exist in conjunction with centers and programs at the University of Kentucky including the Appalachian Center and Appalachian Studies, Center for Health Equity Transformation, Center for Research on Violence Against Women, Prevention Research Center, Center on Drug and Alcohol Abuse, Center for Poverty Research, Committee on Social Theory, Commonwealth Institute for Black Studies, Cooperative for Humanities and Social Sciences, Gender and Women's Studies, Quantitative Initiative for Policy and Social Research, and the Sanders-Brown Center on Aging. Assistantships and traineeships are also available to qualified sociology graduate students through these centers and programs.

Admission Requirements

The following materials are required to apply for admission to the graduate program in Sociology and should be sent directly to the Graduate School's application system's website. Any inquiry on the program requirements and the admission process should be directed to the Director of Graduate Studies of the Department of Sociology.

- The percentile rankings of the three components of the Graduate Record Examination (GRE) must average (mean) at least 50 percent.
- A statement of goals and reasons for pursuing an advanced degree in sociology. It is helpful if applicants also address the field(s) of interest within sociology they may wish to pursue in their graduate studies.
- A sample of writing, preferably in the form of a term paper, an extensive essay, or a draft of a senior thesis. If the applicant has completed a master's degree, she or he may submit one or two chapters from the master's thesis. Please do not submit a copy of the entire master's thesis.
- Three letters of recommendation.
- Undergraduate and graduate transcripts, if applicable.
- TOEFL/IELTS scores, if applicable.

Degree Requirements

36 total credit hours pre-residency

Core requirements

- SOC 681 QUANTITATIVE ANALYSIS I
- SOC 781 QUANTITATIVE DATA ANALYSIS II
- SOC 651 CLASSICAL SOCIOLOGICAL THEORY
- SOC 751 CONTEMPORARY SOCIOLOGICAL THEORY
- SOC 680 SOCIAL INVESTIGATION

Students are also required to take an addition 6 credit hours of social science research methods from a wide selection of approved courses.

Of the 15 hours of electives, 12 must be sociology courses and 12 must be in the student's area of specialization.

MA students must also pass a comprehensive exam and a "Plan B" second-year paper defense.

<https://soc.as.uky.edu/sociology-graduate-program>

Department of Statistics

Doctor of Philosophy

Statistics, PhD

The Department of Statistics offers programs of study leading to the degrees of Master of Science (Plan A or B available), Doctor of Philosophy, and Master of Applied Statistics (Online). The M.S. degree is professionally oriented for the student who plans a career in government, business or industry and is preparatory for the Ph.D. The Ph.D. program offers a broad training in both statistical theory and methods while affording options to suit the student's interests. The statistics Ph.D. is well-suited for academic, business, government and industrial positions. In addition to formal course work and research training, the advanced student has opportunities to gain valuable practical experience by participating in consulting activities under faculty supervision. Master of Applied Statistics is an innovative online professional graduate degree which is designed to train professional, practice-oriented statisticians who have both data analytic and computing skills.

Both, the M.S. and the Ph.D. program offer a Mathematical Statistics track, as well as a Biostatistics track. The latter tracks are designed for students who envision a future at the interface of Statistics and the Life Sciences.

Course work is available in areas associated with statistics such as biological modeling, probability, inference, experimental design and analysis, computational statistics, nonparametric methods, Bayesian analysis, mixed modeling, multivariate analysis, survival analysis, clinical trials, and many other selected topics of the student's choice.

The University of Kentucky is represented on the Committee on Statistics of the Southern Regional Education Board.

Admission Requirements

Students with an undergraduate major in any of the mathematical, physical, biological, social or applied sciences are encouraged to apply. The minimum GRE and GPA admissions requirements for the M.S. and Ph.D. programs in Statistics are the same as for the Graduate School. However, the number of admissions is limited and admissions decisions are made on a competitive basis. All M.S. applicants must have successfully completed a three or four semester sequence in calculus and a course in linear algebra and have good communication skills. In addition, all Ph.D. applicants must have mastered the equivalent of MA 471G. All Master of Applied Statistics applicants must have completed two semesters of calculus and a course in statistical methodology. Students wishing to apply for teaching assistantships and/or

fellowships must submit three letters of recommendation. Applicants wishing to be admitted directly to the Ph.D. program must have an M.S. in Statistics and the permission of the Director of Graduate Studies.

Please see the departmental website for up-to-date information and answers to frequently asked questions about the admissions process.

Degree Requirements

The core curriculum in statistics is designed to provide doctoral candidates with a firm foundation in probability theory, inference, and classical methodology. In addition, the theory and application of computational statistics, biostatistics, and state-of-the-art inferential procedures are an integral part of the core curriculum.

Students in the doctoral program in statistics will choose one of two areas of specialization, 1) mathematical statistics/probability or 2) biostatistics. The requirements for these areas of specialization are:

Mathematical Statistics/Probability

- STA 701 ADVANCED STATISTICAL INFERENCE I
- STA 703 ADVANCED PROBABILITY
- STA 705 ADVANCED COMPUTATIONAL INFERENCE
- STA 707 ADVANCED DATA ANALYSIS
- STA 702 ADVANCED STATISTICAL INFERENCE II

Biostatistics

- STA 701 ADVANCED STATISTICAL INFERENCE I
- STA 703 ADVANCED PROBABILITY
- STA 705 ADVANCED COMPUTATIONAL INFERENCE
- STA 707 ADVANCED DATA ANALYSIS
- STA 709 ADVANCED SURVIVAL ANALYSIS

All students must take an additional six elective courses chosen by the student and approved by the DGS. These courses must be chosen from among STA 612 , STA 616, STA 621 , STA 624 , STA 626 , STA 630 , STA 635 , STA 643 , STA 644 , STA 653 , STA 661 , STA 662 , STA 665 , CPH 631, CPH 636, and CPH 664. STA 695 will also be considered on a case-by-case basis. If a student completes both STA 702 and

STA 709 , the student may choose their official track and count the non-required course as an elective. Note that STA 715 (reading course) may not be used to satisfy elective requirements. Students must successfully complete a common written exam over STA 701 and STA 703 plus respective prerequisites. A student who takes both STA 653 and CPH 664, may only receive credit towards the degree for one of these two courses.

Students must pass a uniform written exam over STA 701 and STA 703 plus respective prerequisites. This exam will normally be offered in January and students will usually sit for the written examination at the beginning of the Spring semester in the third year of the program. The uniform exam can be repeated once. After completion of tract course requirements and successful completion of the written exam, students must also successfully complete an oral qualifying exam which is scheduled through the Graduate School and administered by the student's advisory committee. A significant part of this exam is to be a dissertation proposal.

Areas of current research interest can be found by going to the Department of Statistics faculty web page <https://stat.as.uky.edu/>.

All students, master's and doctoral, will be required to take part in an internship program. This will usually consist of teaching (three or six semester hours) or an equivalent amount of work in a research assistantship working with researchers across campus.

Graduate Certificate

Applied Statistics Certificate

Statistical data analysis is ubiquitous in all areas of science, engineering, medicine, agriculture and education. Research and professional success in these disciplines often depends on using the latest advances in applied statistics. Multidisciplinary research projects involving a substantial component of applied statistics are becoming a frequent venue of expanding the borders of knowledge. This certificate will train graduate and professional degree students in the use of applied statistics in their own field. The students will be able to use this enrichment to become more productive professionals, to further research in their own areas and to engage in multidisciplinary research relying on applied statistical techniques.

Master of Applied Statistics

Applied Statistics, MAS

The Department of Statistics offers programs of study leading to the degrees of Master of Science (Plan A or B available), Doctor of Philosophy, and Master of Applied Statistics (Online). The M.S. degree is professionally oriented for the student who plans a career in government, business or industry and is preparatory for the Ph.D. The Ph.D. program offers a broad training in both statistical theory and methods while affording options to suit the student's interests. The statistics Ph.D. is well-suited for academic, business, government and industrial positions. In addition to formal course work and research training, the advanced student has opportunities to gain valuable practical experience by participating in consulting activities under faculty supervision. Master of Applied Statistics is an innovative online professional graduate degree which is designed to train professional, practice-oriented statisticians who have both data analytic and computing skills.

Both, the M.S. and the Ph.D. program offer a Mathematical Statistics track, as well as a Biostatistics track. The latter tracks are designed for students who envision a future at the interface of Statistics and the Life Sciences.

Course work is available in areas associated with statistics such as biological modeling, probability, inference, experimental design and analysis, computational statistics, nonparametric methods, Bayesian analysis, mixed modeling, multivariate analysis, survival analysis, clinical trials, and many other selected topics of the student's choice.

The University of Kentucky is represented on the Committee on Statistics of the Southern Regional Education Board.

Admission Requirements

Students with an undergraduate major in any of the mathematical, physical, biological, social or applied sciences are encouraged to apply.

The minimum GRE and GPA admissions requirements for the M.S. and Ph.D. programs in Statistics are the same as for the Graduate School. However, the number of admissions is limited and admissions decisions are made on a competitive basis. All M.S. applicants must have successfully completed a three or four semester sequence in calculus and a course in linear algebra and have good communication skills. In addition, all Ph.D. applicants must have mastered the equivalent of MA 471G. All Master of Applied Statistics applicants must have completed two semesters of calculus and a course in statistical methodology. Students wishing to apply for teaching assistantships and/or fellowships must submit three letters of recommendation. Applicants wishing to be admitted directly to

the Ph.D. program must have an M.S. in Statistics and the permission of the Director of Graduate Studies.

Please see the departmental website for up-to-date information and answers to frequently asked questions about the admissions process.

Degree Requirements

The Master of Applied Statistics is a thirty hour, online, Plan B, professional graduate degree that can be completed in a summer and two consecutive semesters or on a part-time basis. The program is unique in that it uses data visualization and statistical computing to teach fundamental concepts in statistical inference to students with a career-oriented focus on data analysis.

Core Courses (Required for all students)

- STA 645 COMPUTATIONAL THEORY AND DATA VISUALIZATION (3)
- STA 646 FOUNDATIONS OF PROBABILITY AND INFERENCE (4)
- STA 647 STATISTICAL COMPUTING WITH SAS (2)
- STA 648 REGRESSION METHODS (4)
- STA 649 DESIGN OF EXPERIMENTS (4)

The electives can be selected from the menu of courses listed below.

- STA 650 APPLIED MULTIVARIATE STATISTICS (3)
- STA 651 ADVANCED PROGRAMMING WITH R (1)
- STA 652 ADVANCED STATISTICAL MODELING (3)
- STA 654 APPLIED BAYESIAN INFERENCE (3)
- STA 656 STATISTICAL QUALITY CONTROL (3)
- STA 659 ADVANCED STATISTICAL METHODS (3) (subtitle required)

Master of Science

Statistics, MS

The Department of Statistics offers programs of study leading to the degrees of Master of Science (Plan A or B available), Doctor of Philosophy, and Master of Applied Statistics (Online). The M.S. degree is professionally oriented for the student who plans a career in government, business or industry and is preparatory for the Ph.D. The Ph.D. program offers a broad training in both statistical theory and methods while affording options to suit the student's interests. The statistics Ph.D. is

well-suited for academic, business, government and industrial positions. In addition to formal course work and research training, the advanced student has opportunities to gain valuable practical experience by participating in consulting activities under faculty supervision. Master of Applied Statistics is an innovative, online professional graduate degree which is designed to train professional, practice-oriented statisticians who have both data analytic and computing skills.

Both, the M.S. and the Ph.D. program offer a Mathematical Statistics track, as well as a Biostatistics track. The latter tracks are designed for students who envision a future at the interface of Statistics and the Life Sciences.

Course work is available in areas associated with statistics such as biological modeling, probability, inference, experimental design and analysis, computational statistics, nonparametric methods, Bayesian analysis, mixed modeling, multivariate analysis, survival analysis, clinical trials, and many other selected topics of the student's choice.

The University of Kentucky is represented on the Committee on Statistics of the Southern Regional Education Board.

Admission Requirements

Students with an undergraduate major in any of the mathematical, physical, biological, social or applied sciences are encouraged to apply.

The minimum GRE and GPA admissions requirements for the M.S. and Ph.D. programs in Statistics are the same as for the Graduate School. However, the number of admissions is limited and admissions decisions are made on a competitive basis. All M.S. applicants must have successfully completed a three or four semester sequence in calculus and a course in linear algebra and have good communication skills. In addition, all Ph.D. applicants must have mastered the equivalent of MA 471G. All Master of Applied Statistics applicants must have completed two semesters of calculus and a course in statistical methodology. Students wishing to apply for teaching assistantships and/or fellowships must submit three letters of recommendation. Applicants wishing to be admitted directly to the Ph.D. program must have an M.S. in Statistics and the permission of the Director of Graduate Studies.

Please see the departmental website for up-to-date information and answers to frequently asked questions about the admissions process.

Degree Requirements

The Statistics Department offers the degree of Master of Science with (Plan A) or without (Plan B) a thesis, and in two different tracks: a Mathematical Statistics track and a Biostatistics track.

Shared Core (Required for all students)

- STA 602 INTRODUCTION TO STATISTICAL METHODS (4)
- STA 603 INTRODUCTION TO LINEAR MODELS AND EXPERIMENTAL DESIGN (4)
- STA 605 COMPUTATIONAL INFERENCE (3)
- STA 606 THEORY OF STATISTICAL INFERENCE I (3)
- STA 623 THEORY OF PROBABILITY (3)
- STA 632 LONGITUDINAL DATA ANALYSIS (3)

Mathematical Statistics Track

Curriculum requirements for the Mathematical Statistics track are the shared core courses above, plus the following courses:

- STA 607 THEORY OF STATISTICAL INFERENCE II (3)
- STA 624 APPLIED STOCHASTIC PROCESSES (3)
- STA 643 ADVANCED EXPERIMENTAL DESIGN (3)

Biostatistics Track

Curriculum requirements in the Biostatistics track are the shared core courses above, plus:

- STA 635 SURVIVABILITY AND LIFE TESTING (3)
- STA 653 CLINICAL TRIALS (3)
- STA 665 ANALYSIS OF CATEGORICAL DATA (3)
- STA 693 BIOSTATISTICAL PRACTICUM (2) 1 unit course in each of the two semesters in the second year

Programs of study for Plan B require a total of at least 35 semester hours. Students will typically fulfill this requirement by taking electives (additional courses besides the shared core and track requirements) in the Fall and Spring of their second year. Programs of study for Plan A (with thesis) require a total of at least 30 semester hours which are satisfied by either of the two course lists above plus 1 or more hours of STA 768 or additional coursework.

The electives can be selected from the menu of courses listed below. Before the end of the second semester, the M.S. candidate must present a proposed plan of study for approval

by the Director of Graduate Studies. There are no formal minor requirements.

Comprehensive Exams

All master's candidates are required to pass a comprehensive departmental written examination on the content of the courses STA 602 , STA 603 , STA 605 , STA 606 , and STA 623 . This examination is normally administered in late May/early June. It is truly comprehensive also in the sense that all parts must be taken together: If a student decides not to take a part of the examination, that part is automatically counted as failed. Students taking the comprehensive exam will receive either a pass at the doctoral level, a pass at the master's level, or a failure. The examination may be repeated only once. Successful completion of the comprehensive examination at the doctoral level is required for admission into the PhD program.

Electives

The electives may be chosen from any course in the following menu that is NOT used as a track requirement.

- MA 471G ADVANCED CALCULUS I (3)
 - STA 607 THEORY OF STATISTICAL INFERENCE II (3)
 - STA 612 SEQUENTIAL ANALYSIS (3)
 - STA 616 Design and Analysis of Sample Surveys (3)
 - STA 621 NONPARAMETRIC INFERENCE (3)
 - STA 624 APPLIED STOCHASTIC PROCESSES (3)
 - STA 626 TIME SERIES ANALYSIS (3)
 - STA 630 BAYESIAN INFERENCE (3)
 - CPH 631 (3) Design and Analysis of Health Survey
 - STA 635 SURVIVABILITY AND LIFE TESTING (3)
 - CPH 636 Data Mining in Public Health (3)
 - STA 643 ADVANCED EXPERIMENTAL DESIGN (3)
 - STA 644 ADVANCED LINEAR AND NONLINEAR MODELS (3)
 - STA 653 CLINICAL TRIALS (3)
 - STA 661 MULTIVARIATE ANALYSIS I (3)
 - STA 662 RESAMPLING AND RELATED METHODS (3)
 - CPH 664 (3) Design and Analysis of Clinical Trials
 - STA 665 ANALYSIS OF CATEGORICAL DATA (3)
- Any course on this list NOT required for the chosen track may be used as an elective. Thus, for example, STA 665 would count as an elective for the Mathematical Statistics track, but it is a track requirement for the Biostatistics track. Similarly, STA 624 would be an elective for the Biostatistics track but is a track requirement for the Mathematical Statistics track.

A student who takes both STA 653 and CPH 664 may only receive credit towards the degree for one of these two courses.

All students, master's and doctoral, will be required to take part in an internship program. This will usually consist of teaching (three or six semester hours) or an equivalent amount of work in a research assistantship working with researchers across campus.

Department of Writing, Rhetoric and Digital Studies

Graduate Certificate

Professional and Technical Writing Certificate

The Graduate Certificate in Professional and Technical Writing provides immediate workplace skills and knowledge in organizational writing, manual writing, policy writing, technical writing, grant writing, and technical legal writing. It is designed for working professionals who are interested in continuing their education in professional and technical writing. All courses are online, and the certificate can be completed in a flexible and timely manner.

College of Communication and Information

College of Communication and Information

For more information about the College of Communication and Information, visit their website at <https://ci.uky.edu/ci/>.

Department of Communication

Doctor of Philosophy

Communication, PhD

The College of Communications and Information offers programs leading to the Master of Arts (either Plan A or Plan B) and Doctor of Philosophy degrees in Communication. The program offers special opportunities for students to apply communication theory and research across many contexts. Students may develop a program of study emphasizing (or combining) research areas such as health communication, information studies, instructional communication, media and mass communication, risk and crisis communication as well as strategic and organizational communication. The program is designed to serve the needs of students whose goals may include teaching and academic research, professional research, or communication careers in the media or other organizations.

Students pursuing work in health communication are encouraged to develop interdisciplinary programs involving the Department of Behavioral Science, the College of Medicine, as well as the Colleges of Dentistry, Health Sciences, Pharmacy, and Nursing. Communication also participates in interdisciplinary research programs with the Center for Prevention Research, the Sanders-Brown Center for Aging, and a variety of other health-related departments and institutes.

Admission Requirements

Students with an undergraduate degree from a fully accredited institution of higher learning and a grade point average of 3.0 on a 4.0 scale are admissible to the graduate program. Only students who have previously completed a master's degree may apply for admission into the doctoral program. Master's degree applicants are expected to have had at least twelve hours of appropriate undergraduate work in communication. Students with degrees in areas not directly related to communication are encouraged to apply, but they may be required to take course work without graduate credit. Should the Admissions Committee feel there is a deficiency in the applicant's studies, it may require enrollment in specific undergraduate courses. Courses taken to remove a deficiency cannot be counted towards the master's degree. In some cases, successful professional experience in a communication field will be considered in admitting students to the program.

Applicants must complete the University of Kentucky's Graduate School online-application and pay the application fee. Per the Graduate School's instruction, all applicants are required to submit official scores on the Graduate Record Examination and official transcripts of all work taken at and beyond the college level. Students whose native language is not English must also submit an official score of at least 550 (or 213 on the computer version or 79 on the internet-based version) of the Test of English as a Foreign Language (TOEFL) or a minimum of 6.5 of the International English Language Testing Service (IELTS). Additionally, all applicants must submit to the College of Communications and Information Studies Graduate Admissions office: (1) transcripts of all work taken at the college level (unofficial or photocopies are acceptable), (2) at least three letters of recommendation focusing on their academic abilities accompanied by the supplied Reference Form and (3) the completed Application Essay indicating why they want to pursue a graduate degree with their reasons for applying to the program. No additional forms are required for financial assistance consideration-all applicants will be considered for funding at the time of review.

The Admissions and Financial Aid Committee will review only completed admission files after January 5 of each year. Applications must have their completed file on record with the Associate Dean for the Graduate Programs in Communication by the deadline in order to be considered for fall admission. New graduate students are permitted to enroll only during the fall semester. Exceptions will be made only because of circumstances beyond the control of the applicant. This deadline does not apply to: (1) UK undergraduate students in the College of Communications and Information Studies applying as University Scholars, who may be admitted for summer, fall or spring semesters, and (2) current students in the M.A. Program in Communication or the M.L.S., M.S.L.S or M.S. in ICT.

Degree Requirements

The Ph.D. program emphasizes communication as a social science. Graduates are prepared for university positions and careers in government, the media and other organizations as researchers, consultants and policy makers. Students must demonstrate general knowledge of communication across various contexts, as well as competence in a core area of specialization. Current core areas include health communication, information studies, instructional communication, media and mass communication, risk and crisis communication as well as strategic and organizational communication.

Students must demonstrate a thorough grasp of communication theory and research methods and must take course work in a cognate area outside of Communication. Proficiency in a foreign language is not required for successful completion of the Ph.D. in Communication. A student's advisory committee may, however, stipulate certain graduate-level courses in another language for the student's program that are consistent with the objectives of the student's program. The required curriculum is as follows:

Fall Semester: Year 1

- CI 651 COMMUNICATION THEORY
- CI 664 QUALITATIVE METHODS IN COMMUNICATION RESEARCH
- STA 570 BASIC STATISTICAL ANALYSIS (or other advanced statistics course)

Spring Semester: Year 1

- CI 631 PROSEMINAR IN INTERPERSONAL COMMUNICATION OR CI 645 PRESEMINAR IN MASS COMMUNICATION THEORY
- CI 665 QUANTITATIVE METHODS IN COMMUNICATION RESEARCH

Fall Semester: Year 2

- CI 751 ADVANCED TOPICS IN COMMUNICATION THEORY CONSTRUCTION

All students are also required to complete at least 3 credit hours of CI 790 RESEARCH PROBLEMS IN COMMUNICATION by the last semester of course work.

The Associate Dean for Graduate Programs, in consultation with the Graduate Review committee, can waive any of the above requirements for a student who has previously taken the same or equivalent course at UK or another university for graduate credit. Each student works with a major professor and an advisory committee to plan course work and complete the dissertation. The committee also administers the qualifying examination and the final oral examination. The qualifying examination consists of a written and oral examination over general communication theory, the core area of specialization, research methods/statistics and the cognate area.

Graduate Certificate

Instructional Communication Certificate

The 12-credit hour graduate certificate in Instructional Communication is designed to help students achieve

instructional communication competency that can be applied in a wide range of contexts. Specifically, this program will:

- provide students with a multi-faceted view of instructional communication theory and research methods
- prepare to students to effectively plan, lead and assess communication effectiveness in diverse instructional contexts
- provide students with the knowledge and skills to be competitive in a knowledge and technology-driven society.

Risk Sciences Certificate

The graduate certificate in Risk Sciences provides the foundational understanding of risk and crisis communication and the opportunity to develop practical application of this knowledge. Organizations and entities of various sizes are becoming keenly aware of the need for effective communication in risk and crisis contexts. This certificate will prepare students to meet this need. The certificate will require twelve credit hours, including risk communication, crisis communication, training and consulting, and knowledge management. Research implications (both theoretical and practical), lessons learned, and new theories of community risk communication will be included in the curriculum.

Master of Arts

Communication, MA

The College of Communications and Information offers programs leading to the Master of Arts (either Plan A or Plan B) and Doctor of Philosophy degrees in Communication. The program offers special opportunities for students to apply communication theory and research across many contexts. Students may develop a program of study emphasizing (or combining) research areas such as health communication, information studies, instructional communication, media and mass communication, risk and crisis communication as well as strategic and organizational communication. The program is designed to serve the needs of students whose goals may include teaching and academic research, professional research, or communication careers in the media or other organizations.

Students pursuing work in health communication are encouraged to develop interdisciplinary programs involving the Department of Behavioral Science, the College of Medicine, as well as the Colleges of Dentistry, Health Sciences, Pharmacy, and Nursing. Communication also participates in interdisciplinary research programs with the Center for Prevention Research, the Sanders-Brown Center for Aging,

and a variety of other health-related departments and institutes.

Admission Requirements

Students with an undergraduate degree from a fully accredited institution of higher learning and a grade point average of 3.0 on a 4.0 scale are admissible to the graduate program. Only students who have previously completed a master's degree may apply for admission into the doctoral program. Master's degree applicants are expected to have had at least twelve hours of appropriate undergraduate work in communication. Students with degrees in areas not directly related to communication are encouraged to apply, but they may be required to take course work without graduate credit. Should the Admissions Committee feel there is a deficiency in the applicant's studies, it may require enrollment in specific undergraduate courses. Courses taken to remove a deficiency cannot be counted towards the master's degree. In some cases, successful professional experience in a communication field will be considered in admitting students to the program.

Applicants must complete the University of Kentucky's Graduate School online-application and pay the application fee. Per the Graduate School's instruction, all applicants are required to submit official scores on the Graduate Record Examination and official transcripts of all work taken at and beyond the college level. Students whose native language is not English must also submit an official score of at least 550 (or 213 on the computer version or 79 on the internet-based version) of the Test of English as a Foreign Language (TOEFL) or a minimum of 6.5 of the International English Language Testing Service (IELTS). Additionally, all applicants must submit to the College of Communications and Information Studies Graduate Admissions office: (1) transcripts of all work taken at the college level (unofficial or photocopies are acceptable), (2) at least three letters of recommendation focusing on their academic abilities accompanied by the supplied Reference Form and (3) the completed Application Essay indicating why they want to pursue a graduate degree with their reasons for applying to the program. No additional forms are required for financial assistance consideration-all applicants will be considered for funding at the time of review.

The Admissions and Financial Aid Committee will review only completed admission files after January 5 of each year. Applications must have their completed file on record with the Associate Dean for the Graduate Programs in Communication by the deadline in order to be considered for fall admission. New graduate students are permitted to enroll only during the fall semester. Exceptions will be made only because of

circumstances beyond the control of the applicant. This deadline does not apply to: (1) UK undergraduate students in the College of Communications and Information Studies applying as University Scholars, who may be admitted for summer, fall or spring semesters, and (2) current students in the M.A. Program in Communication or the M.L.S., M.S.L.S or M.S. in ICT.

Degree Requirements

The M.A. program requires that every student become familiar with the important theories and concepts and the principal investigation methods used to expand knowledge of communication. All students are required to complete 30 credit hours to complete the Master of Arts degree. Students will be required to take 12 core credit hours consisting of Communication Theory (CI 651), and Communication Research Methods (CI 665), plus Statistics 570 (or its equivalent as determined by the Associate Dean for Graduate Studies). In addition, all students will be required to take either Interpersonal Communication (CI 631) or Mass Communication (CI 608 or CI 645). Students may choose from either the Plan A (Thesis option) or Plan B (non-thesis) options to complete their Masters degree requirements.

Plan A: Students choosing Plan A will take a minimum of 24 credit hours of actual course work, and write a thesis (Note: the six thesis credits must be taken under CI 768 - Residence Credit for the Master's degree). All students will also complete an oral examination in defense of the thesis. Students choosing Plan B, will take a minimum of 30 hours of course work, followed by a written and oral examination over the student's program.

At least 21 credit hours of the minimum requirements for the master's degree must be from offerings within the College of Communications and Information studies (both Plan A and Plan B). Plan A students may include six hours of CI 768 in the 21 hours, since the thesis involves work in an area of communication. Also, at least 15 credit hours of the minimum requirements must be in courses at the 600 and 700 levels (both Plan A and Plan B). Plan A students may include six hours of CI 768 in the 21 hours. No more than three credit hours in Plan A and 6 credit hours in Plan B (of the minimum requirements) may be earned in directed study, directed reading, or internship courses (e.g., CI 696 , CI 700 , CI 781 , and CI 790).

Students without previous course work in communication may be required to take undergraduate work that does not count toward graduate credit, as determined by the Admissions

Committee. Individuals without significant practical experience are strongly encouraged to take CI 696 - Internship in Communication, which could include opportunities to work with external agencies and funded projects, both within and outside the university.

School of Information Science

Master of Science

Information Communication Technology, MS

The online graduate program in Information Communication Technology (ICT) is dedicated to advancing and evolving how users interact and manage communication, information, and technology. Students in the program will learn to effectively research, apply, use, and manage technology when solving problems specifically related to information and communication, bridging the gap between the business and technology side of interactions. The program's core courses allow students to obtain the graduate skills that will serve them well in management roles and prepare them to tackle the technology trends of today. Specialty tracks in the program allow students to take a variety of electives and special topics classes in order to give them more in-depth information on some of the many career pathways ICT can offer.

Admission Requirements

- Transcripts showing a Bachelor's degree from an accredited four-year institution with an undergraduate GPA of 3.0 or higher
- Personal Statement explaining (i) why the applicant is seeking admission to the ICT master's program at the University of Kentucky, and (ii) why they are interested in a career as an ICT professional (200-300 words)
- Resume or CV
- Three letters of recommendation

Degree Requirements

Fifteen credits of core coursework:

- ICT 600 INFORMATION COMMUNICATION TECHNOLOGY IN SOCIETY
- ICT 610 ICT RESEARCH METHODS
- ICT 650 INTRODUCTION TO LEADERSHIP IN INFORMATION PROFESSIONS
- ICT 661 INTRODUCTION TO DATA SCIENCE OR ICT 662 DATA ANALYSIS AND VISUALIZATION
- ICT 696 ICT PRACTICUM

Students complete an additional 21 credit hours of electives, completing the program with a total of 36 credit hours. All ICT master's courses are online, asynchronous courses.

A grade point average of 3.00 (B) must be maintained. Failure to do so results in academic probation and will result in dismissal, if, in the prescribed time, the grade point average is not raised to 3.00 or higher. A student who earns a third C (or lower) grade is dismissed from the program even if the student has earned the required minimum 3.00 grade point average.

The MSICT website can be found here: [Online Master's in Information Communication Technology | School of Information Science \(uky.edu\)](#).

Interested applicants might also review our [Student Handbook](#).

Master of Science in Library Science

Library Science, MSLS

The MSLS program has continuing accreditation from the American Library Association and is the only ALA-accredited Library Science program in Kentucky. Offered fully online, the program prepares students to work as information professionals in a variety of settings like medical, public, academic, and school libraries.

Academic concentrations within the MSLS program include academic libraries, health information, information technology

and systems, public libraries, school libraries, youth services and literature, and a generalist option.

Admission Requirements

The MSLS program invites applicants to apply for the fall, spring, and summer semesters.

Admission to the program requires:

- a bachelor's degree from an accredited institution
- a grade point average of 3.0 or higher (4.0 scale) on any prior undergraduate or graduate work
- submission of a personal statement and current resumé/CV
- three letters of recommendation from academic and/or professional references

Degree Requirements

To earn the MSLS, students must complete a total of 36 credit hours, successfully pass the exit requirement, and have a GPA of 3.0 or higher.

Within the 36 hours, students must complete 4 required core courses (12 hours), 1 technology course (3 hours), and 7 elective courses (21 hours). The required core courses are as follows:

- LIS 600 INFORMATION IN SOCIETY
- LIS 601 INFORMATION SEARCH
- LIS 602 KNOWLEDGE ORGANIZATION
- LIS 603 MANAGEMENT IN INFORMATION ORGANIZATIONS

Elective offerings span across the concentration areas. With prior permission of the Director of Graduate Studies, students may also elect to complete up to 6 hours of coursework outside of Library Science to count toward their degree.

Student in the school libraries concentration may have more restricted election options as they fulfill the requirement for school library media certification and change of rank.

Communication and Information Studies

Graduate Certificate

Health Communication Certificate

The graduate program in Communication offers a certificate in Health Communication that is available to (a) students in the Ph.D. And M.A. programs in communication, (b) students in other doctoral programs at the university and (c) post baccalaureate students. The certificate program is aimed primarily at individuals interested in developing specialized knowledge and research expertise in health communication that could be applied within both academic and nonacademic settings. Students are expected to have a background in social or behavioral science prior to entering the program. To earn the certificate, students must complete CJT 671 and 771 and either CJT 780 (section focusing on a health communication topic) or a graduate course in medical informatics, for a total of 12 credit hours.

College of Dentistry

College of Dentistry

For more information about the College of Dentistry, visit their website at <https://dentistry.uky.edu/> .

Graduate Certificate

Orofacial Pain Certificate

The program is a 42-credit hour Graduate Certificate in Orofacial Pain designed to meet the needs of the dental practitioner interested in practicing the management of orofacial pain. The dental profession has recently recognized the field of orofacial pain as a dental specialty that requires clinicians to gain specialty status in orofacial pain. The two-year certificate program will meet the criteria for board eligibility for orofacial pain specialty. This certificate is designed as a complement to the MS in Orofacial Pain, where the difference the proposed certificate program and the already established

MS Dentistry's concentration in Orofacial Pain is a research component.

Master of Science

Dentistry, MS

The Master of Science degree programs in the Orofacial Pain, Orthodontics, and Periodontology graduate specialty programs are designed to produce graduates who are clinically adept, well versed in research and the biologic basis for dentistry, and prepared to function at a high level of accomplishment in both clinical practice and academic dentistry. These interdisciplinary programs involve dental school clinical and graduate program faculty as well as faculty from other programs throughout the University of Kentucky. All students receive teaching experience in anticipation of full- or part-time academic involvement after graduation.

Successful completion of the Master of Science degree is prerequisite before the awarding of a training certificate in the Orthodontics and Periodontology programs. The Masters of Science degree is available in two options:

- Plan A, minimum of 30 credits, plus a Master's Thesis and successful thesis defense
- Plan B, minimum of 30 credits, successful research project results defense, plus a manuscript completion for a peer-reviewed journal based on research project results.

Admission Requirements

- Applicants to any of the Master of Science degree programs must have a D.M.D./D.D.S. degree from an accredited United States or Canadian dental school or equivalent.
- Applicants who are not native English speakers must score at least 550 (paper,) 213 (computer) or 79 (internet) on the Test of English as a Foreign Language (TOEFL) or 6.5 on the International English Language Testing System (IELTS).
- The Graduate School requires an overall grade point average of 3.00 on all graduate work; individual programs may have higher requirements.

- The individual degree programs may have different admission requirements; please consult the individual degree program website:

- Orofacial Pain: <https://dentistry.uky.edu/orofacial-pain-applications-and-admissions>

- Orthodontics: <https://dentistry.uky.edu/orthodontics-applications-and-admissions>

- Periodontology: <https://dentistry.uky.edu/periodontology-applications-and-admissions>

Program Requirements

Requirements To Be Added

College of Design

College of Design

For more information about the College of Design, visit their website at <https://design.uky.edu/> .

Graduate Certificate

Historic Preservation Certificate

The graduate certificate in Historic Preservation is now available to both graduate students and practicing professionals. Certificate students have a choice of three areas of concentration: preservation and design; preservation and economic development; and preservation and planning. The certificate requires 12 credit hours, and is a great way to gain an advantage in an increasingly competitive job market. The certificate consists of two core courses, and two courses from the area of concentration. The graduate certificate may be earned concurrently with a master's degree in any other field, such as architecture, interiors, history, anthropology, engineering, or business. It may also be earned by professionals who already possess a bachelor's degree in another field. Previous design experience or education is not a requirement for acceptance into the certificate program. Knowledge of the values and legal framework that drives

preservation decisions is useful to numerous professions in today's world. Certificate students will learn preservation principles, tools, and techniques that will allow them to apply their base knowledge within a historic context.

Master of Science

Urban and Environmental Design, MS

The Master of Science in Urban & Environmental Design (MUED) at the UK College of Design is dedicated to helping students think critically about emerging urban and environmental design problems through real-world projects and future-oriented ideas. The one-year program introduces students to the complexity of urban and rural environments - from the varying spectrum of stakeholders to the bounds of existing infrastructures - and promotes an interdisciplinary approach to designing sustainable communities.

The curriculum is studio-based to develop an ethic of collaboration and critical thinking among students, faculty and community members. From these relationships, projects emerge that seek inventive ideas to specific design challenges. Students take a diversified sequence of courses that includes history and theory of urban and environmental design, visualization techniques, policy analysis, and socioeconomic research.

The MUED offers flexible degree options for a variety of student backgrounds and design experience levels. Students with no formal design background are encouraged to apply.

Admission Requirements

- **Portfolio:** The Master of Science in Urban and Environmental Design (MUED) offers flexible degree options for a variety of student backgrounds and design experience levels. Students with no formal design background are encouraged to apply.
- **OPTION 1** is for students with both a prior design degree. This option can be completed in one year (Fall, Spring, and Summer). A portfolio is required to apply.
- **OPTION 2** is for students with no formal design background and requires a foundational studio sequence as a prerequisite for admission to the MUED program. This option can be completed in two years and does not require a portfolio for admission.

- GRE
- Three letters of recommendation
- Application Deadlines:
 - Summer: March 1
 - Fall: March 1

Degree Requirements

MUED Curriculum (Prior Design Degree)

Semester 1 Fall

- UED 601 URBAN AND ENVIRONMENTAL DESIGN STUDIO I 5 hours
- UED 611 VISUALIZATION AND REPRESENTATION 2 hours
- Elective 3 hours

Semester 2 Spring

- UED 602 URBAN AND ENVIRONMENTAL DESIGN STUDIO II 5 hours
- UED 651 HISTORY AND THEORY OF URBAN AND ENVIRONMENTAL DESIGN 3 hours
- HP 602 HISTORIC PRESERVATION LAW 3 hours
- Elective 3 hours

Semester 3 Summer

- UED 612 RESEARCH DESIGN AND METHODS IN URBAN AND ENVIRONMENTAL DESIGN 1 hour
- UED 701 URBAN AND ENVIRONMENTAL DESIGN PROJECT 5 hours (students should enroll in this course if they are completing a design capstone project)
- UED 711 URBAN AND ENVIRONMENTAL DESIGN THESIS 5 hours (students should enroll in this course if they are completing a design thesis)

Total: 30 hours

MUED Curriculum (Non-Design Background)

Semester 1 Fall

- UED 511 URBAN AND ENVIRONMENTAL DESIGN STUDIO PRIMER 5 hours
- UED 611 VISUALIZATION AND REPRESENTATION 2 hours
- UED 501 INTRODUCTION TO URBAN AND ENVIRONMENTAL DESIGN 3 hours

Semester 2 Spring

- UED 601 URBAN AND ENVIRONMENTAL DESIGN STUDIO I 5 hours
- HP 602 HISTORIC PRESERVATION LAW 3 hours

Semester 3 Fall

- UED 602 URBAN AND ENVIRONMENTAL DESIGN STUDIO II 5 hours
- UED 651 HISTORY AND THEORY OF URBAN AND ENVIRONMENTAL DESIGN 3 hours
- Elective 3 hours

Semester 4 Spring

- UED 612 RESEARCH DESIGN AND METHODS IN URBAN AND ENVIRONMENTAL DESIGN 1 hour
- Elective 3 hours
- UED 701 URBAN AND ENVIRONMENTAL DESIGN PROJECT 5 hours (students should enroll in this course if they are completing a design capstone project)
- UED 711 URBAN AND ENVIRONMENTAL DESIGN THESIS 5 hours (students should enroll in this course if they are completing a design thesis)

Total: 38 hours

School of Architecture

Master of Architecture

Architecture, MAR

The Master of Architecture is a professional graduate degree, accredited by the National Architecture Accrediting Board

(NAAB). This two-year degree comprises the second part of a sequential "4+2" curriculum, in which a student obtains a four-year (pre-professional) Bachelor of Arts in Architecture and concludes with the two-year, professional Master of Architecture degree. Students who receive this degree are eligible to seek professional registration as an architect.

The "3+ year track" is available to students without the pre-professional bachelor's degree or background in design. In addition to Master of Architecture core requirements, students in the 3+ year track take accelerated courses and courses determined by the DGS on a case-by-case basis that achieve design proficiency.

Admission Requirements

Applicants for admission to the Master of Architecture degree program must hold a Bachelor of Arts in Architecture or a Bachelor of Architecture degree from a NAAB-accredited institution. Admission to the program is contingent on acceptance by the Graduate School at the University of Kentucky. Applicants are required to submit a portfolio, a personal essay on graduate expectations, transcripts, and GRE scores.

Students who do not hold a Bachelor of Arts in Architecture or Bachelor of Architecture may apply to the 3+ year track. Applicants are required to submit a portfolio, a personal essay on graduate expectations, transcripts, and GRE scores, and must submit three letters of recommendation.

Admission to the program is based on a review of the submitted materials.

Degree Requirements

To obtain the Master of Architecture degree, students must complete 48 credit hours of graduate work as described in the curriculum below. Every student must complete a Master's Project. Requirements for this degree are governed by and satisfy the accreditation requirements of the National Architecture Accrediting Board.

Credit hours for students in the 3+ year track will vary by student.

MASTER OF ARCHITECTURE - 2 Year Track

Total Hours Architecture Core requirements	33
Master's Project Research	3
Master's Project	6
Electives	6
Total Graduate	48

Please find more information and a curriculum plan on the College of Design website at: <http://design.uky.edu/architecture-degrees/>

MASTER OF ARCHITECTURE - 3+ Year Track

Total Hours Architecture Core requirements	33
3+ Year Track requirements (typical/varies by student background)	30
Master's Project Research	3
Master's Project	6
Electives	6
Total Graduate (will vary based on 3+ courses taken)	75

Please find more information and a curriculum plan on the College of Design website at: <http://design.uky.edu/architecture-degrees/>

Master of Historic Preservation

Historic Preservation, MHP

From historic buildings and archaeological sites to urban neighborhoods and rural landscapes, graduates of the Master of Historic Preservation (MHP) program are actively engaged in the identification, documentation, protection, and sustained use of a broad range of historic and cultural

resources. Historic preservation is a complex and interdisciplinary field that requires creative thinking about the relationship between the past, present, and future. It applies the skills of historians, designers, anthropologists, engineers, and many other allied fields to sites of historical meaning and significance. Our graduates work in private practice, at every level of government, and in the non-profit world. The Department of Historic Preservation also offers a graduate certificate in Historic Preservation, which is comprised of two required courses (HP 601 and HP 602), and two additional historic preservation electives.

Admission Requirements

- 1) A baccalaureate degree from an accredited college or university
- 2) A writing sample or demonstration of ability in drawing, drafting, and/or photography
- 3) Three letters of recommendation and a personal essay
- 4) A minimum 2.75 GPA at the undergraduate level
- 5) A minimum of 3.0 GPA for any previous work at the graduate level

Degree Requirements

The MHP program requires successful completion of 48 credit hours, which includes a core, electives, and the successful defense of a final Master's project.

Core:

Students must complete all courses

- HP 601 INTRODUCTION TO HISTORIC PRESERVATION (3)
- HP 602 HISTORIC PRESERVATION LAW (3)
- HP 610 AMERICAN ARCHITECTURE I (3)
- HP 611 AMERICAN ARCHITECTURE II (3)
- HP 612 DOCUMENTATION OF HISTORIC BUILDINGS AND SITES (3)
- HP 613 HISTORICAL STRUCTURAL SYSTEMS AND BUILDING MATERIALS (3)
- HP 614 DOCUMENTATION OF HISTORIC BUILDINGS AND SITES II (3)
- HP 616 HISTORIC PRESERVATION AND DESIGN (3)
- HP 617 HISTORIC PRESERVATION PLANNING (3)
- HP 798 RESEARCH DESIGN (3)

- HP 799 MASTER'S PROJECT (2@3, 6 total)

Electives:

Students are required to take 12 or more credits of electives. The electives may be taken from courses offered within the department, or they may be taken from the offerings of other departments across the university.

• Electives offered by the Department of Historic Preservation include:

- HP 501 SELECTED TOPICS IN HISTORIC PRESERVATION (SUBTITLE REQUIRED) (3)
- HP 510 CULTURAL LANDSCAPES AND HISTORIC PRESERVATION (3)
- HP 511 SUSTAINABLE DEVELOPMENT AND HERITAGE (3)
- HP 609 URBAN REVITALIZATION IN THE UNITED STATES (3)
- HP 615 AMERICAN SETTLEMENT PATTERNS: HISTORY OF LAND DEVELOPMENT (3)
- HP 670 RETHINKING PRESERVATION: ETHICS, PUBLIC POLICY, AND HERITAGE RESOURCES (3)
- HP 671 INTRODUCTION TO CULTURAL RESOURCE MANAGEMENT (3)
- HP 675 ARCHITECTURAL HISTORY FOR PRESERVATION PRACTICE (3)
- HP 676 FIELD METHODS IN HERITAGE CONSERVATION (3)
- HP 699 INTERNSHIP (1-6)
- HP 718 ADAPTIVE REUSE (3)
- HP 720 CASE STUDIES IN PRESERVATION (3)
- HP 721 INTERPRETATION OF HISTORIC BUILDINGS AND SITES (3)
- HP 724 ADVANCED HISTORICAL STRUCTURAL SYSTEMS AND BUILDING MATERIALS CONSERVATION (3)
- HP 748 MASTER'S PROJECT RESEARCH (0)
- HP 750 ARCHITECTURE DESIGN STUDIO (3)
- HP 772 SEMINAR IN HISTORIC PRESERVATION: SUBTITLE REQUIRED (3)
- HP 785 INDEPENDENT STUDY IN HISTORIC PRESERVATION (3)

Master's project:

Students have two options for completing their Master's project.

Option 1 follows the format of a traditional academic thesis. It is an original, student-led project that identifies a research question relevant to the field of historic preservation, applies a research methodology appropriate for the question asked, develops a

new dataset or examines existing datasets, and analyzes the data to arrive at a well-supported conclusion.

Option 2 is an independent professional project reflecting the type of work historic preservation practitioners are likely to execute in a professional environment. Examples of this type of project might include exceptionally well-researched and well-written nominations to the National Register of Historic Places, proposals for local historic districts that include resource inventories and design review guidelines, Cultural Landscape Reports and Historic Structure Reports that include resource inventories and management plans, and the like.

<https://design.uky.edu/historic-preservation/>

School of Interiors: Planning/Strategy/Design

Master of Arts in Interior Design

Interiors: Planning/Strategy/Design, MAIND

The graduate program in the School of Interiors leads to a post-professional Master of Arts in Interiors: Planning/Strategy/Design. Students undertake a combination of course work, independent study, and research experience to develop a course of study designed to meet each student's career interests. Courses from within and outside the discipline cultivate interdisciplinary design thinking. Using design-related scholarship/research and creative approaches, students engage in an investigative process leading to an area of design specialization. Each student works with an advising committee in the selection of a written thesis or a design thesis project option and the appropriate courses at the 500, 600, and 700 levels. Applicants that have an undergraduate degree in interior design or a related professional subject matter normally complete the program in two years. Supplementary course work may be required of applicants without professional undergraduate interior design degrees.

Admission Requirements

Potential graduate students must:

1. Apply and be accepted to the Graduate School.
2. Have been granted a baccalaureate degree by an accredited institution with a minimum 3.0 GPA on a 4.0 scale (2.75-3.0 GPA will be considered in relation to other credentials).
3. Have taken the Graduate Record Examination (GRE). For a non-English speaking student, a TOEFL score of 550 or above is required (or a score of 213 on the computer version of TOEFL).
4. After admittance to the Graduate School, apply and be accepted by the School of Interiors

To be reviewed by the school, apply to the graduate program in the School of Interiors through the portal provided by the Graduate School. As part of your application, students will write a personal statement articulating why they wish to study interiors, including career goal aspirations. Additionally, three letters of recommendation regarding academic ability must be included. Students must submit a portfolio to be reviewed and evaluated by a faculty committee. The portfolio may be submitted digitally. If you would like further information on the program, contact the Director.

Degree Requirements

Students undertake the Master of Arts in Interiors with either a Plan A and Plan B option. The thesis option (Plan A) requires 24 hours of course work, six hours of Master's residence credit, and a written thesis with a research emphasis. Plan B requires completion of 30 credit hours, including six hours of ID 700, in which a student develops a design thesis project that engages in innovative problem-solving focusing on the student's area of specialization. A common core of twelve hours, comprised of ID 650, ID 655, and ID 659, is required of all students. Students complete twelve credits of additional course work in the area of concentration. Students must successfully complete a final examination in the form of a thesis defense, which is required for graduation.

College of Education

College of Education

For more information about the College of Education, visit their website at <https://education.uky.edu/> .

Doctor of Philosophy

Education Sciences, PhD

The Interdisciplinary Ph.D. in Education Sciences (major code: EDSC) program is designed for individuals seeking careers in educational research. Graduates of the program are prepared to meet the growing national need for educators who are well trained in methodological issues in education research. This Ph.D. program prepares individuals who will have careers in research universities, educational research labs and corporations, and research groups within education agencies.

All EDSC students will be encouraged to apply for 20-hour per week research assistantships on grant supported projects in the College of Education and other units at the University of Kentucky. In addition to coursework, students will be expected to attend local, state, or national professional conferences during the first and second years of their programs. All students will be expected to present their research at professional conferences by their third year in the program. EDSC doctoral students are expected to submit manuscripts to professional journals and accomplish refereed publications during their doctoral study. Presentations and publications may be scholarly works with a single author or groups of co-authors.

Curriculum

EDSC is a rigorous doctoral program that requires year-round, full-time study. Students are encouraged to apply for admission for the Fall semester. Students seeking Spring admission should contact the program DGS to determine if the strand they are interested in allows for Spring admissions. Students will be required to complete a set of core courses in research methods and education policy; in addition, students will then be able to follow a particular "strand" of courses in an area of specialization. All students will be involved in educational research projects throughout their time in the program.

EDSC doctoral students will be required to designate at the time of application the strand that they would like to complete. These include advanced concentrations in the following:

- Curriculum and Instruction

- Educational Leadership Studies
- Educational Policy Studies: Educational Evaluation and Policy
- Educational Policy Studies: Philosophical and Cultural Inquiry
- Health education
- Physical education
- Quantitative and Psychometric Methods
- STEM education

<https://education.uky.edu/research/phd/>

CURRICULUM AND INSTRUCTION

- The Ph.D. in Interdisciplinary Education Sciences - Curriculum & Instruction strand prepares individuals for careers in educational research. Graduates of the Curriculum & Instruction strand of the Education Sciences program pursue a variety of career opportunities, including becoming university faculty in Curriculum & Instruction departments; assuming advanced leadership positions in schools, districts, and state governments; or working for curriculum development companies or in private consulting, among others.
- Within the Curriculum & Instruction strand, students may specialize in an educational content area within Curriculum & Instruction, such as Instructional Systems Design, Literacy education, or Social Studies education, or they may study Curriculum & Instruction more broadly.

Admission Requirements

- Applicants are evaluated holistically, with attention paid to prior educational achievement and professional experience. Interviews are frequently requested. All materials may be submitted through The Graduate School's online application process. Applicants must submit the following materials to be considered for admission:
- GRE scores
- Transcripts from all prior institutions of higher education
- Personal statement

- CV or resume
- Writing sample from prior academic work
- 3 letters of recommendation
- Applicants are encouraged, but not required, to submit a departmental application for teaching or research assistantships along with their application for program admission.

Degree Requirements

- Students must take a minimum of 36 credit hours of coursework prior to the qualifying examination and the dissertation. This coursework is divided into the following categories:
 - A minimum of 12 credits of research methodology coursework.
 - A program core of 12 credits, including a proseminar, coursework in curriculum theory, and coursework in multicultural issues in education
 - A specialization core of 12 credits in Instructional Systems Design, Literacy Education, Social Studies Education, or Curriculum & Instruction.
 - Students are encouraged to take elective courses in departments outside of Curriculum & Instruction.

EDUCATIONAL LEADERSHIP STUDIES

- The Doctor of Philosophy (PhD) Educational Leadership strand prepares academicians and university faculty in the study of leadership within educational contexts.
- The Doctor of Philosophy (PhD) Educational Leadership strand is a cohort-based program with online courses, qualifying examinations, and dissertation defense.
- The degree consists of 42 minimum course credit hours and a minimum of 4 credits of dissertation residency (does not need to be completed in Kentucky).

Admission Requirements

- Earned Masters, from a fully accredited institution, with a 3.5 GPA on a 4.0 scale.
- Transcripts from previous post-secondary institutions.
- Professional Resume
- Personal Statement
- Diversity, Equity & Inclusion Statement
- 3 Recommendations, with at least one academic who has earned a doctoral degree and serves in an academic institution and one professional to speak to your creativity, ability to navigate systems.
- On-demand writing sample
- Completed graduate-level basic statistics course by August 15 of the semester of program start.

Degree Requirements

- 42 minimum credits of coursework, 4 minimum credits of dissertation residency. Minimum of 46 credits total.
- 14 courses (5 leadership; 5 research; 4 electives) of pre-dissertation coursework typically earned over 7 semesters including summer.
- Qualifying examination after completion of 42 credit hours of coursework
- Student must remain enrolled in EDL 767 Dissertation Residency Credit from the semester they sit for their Qualifying Examination through semester they defend their dissertation.
- Final dissertation defense.

EDUCATIONAL POLICY STUDIES: EDUCATIONAL

EVALUATION AND POLICY

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,

- A masters degree or equivalent level of coursework
- A 500-word statement of purpose describing the student's intellectual and professional goals for completing the program. Applicants are advised to clearly indicate the areas of coursework and research they wish to pursue.
- Four letters of reference with at least two from referees familiar with the students' academic work
- Resume or Curriculum Vitae
- Writing sample demonstrating academic writing (e.g. chapter of master's thesis, course paper, scholarly essay)
- Application Deadlines vary by department, consult the EDSC webpage for details.
- GRE is not required for Specialization in Evaluation and Education Policy or Philosophical and Cultural Inquiry

Degree Requirements

Students are required to complete 12 hours of core research classes

- One three-hour course in quantitative research methods.
- One three-hour course in qualitative research methods.
- One additional and complementary three-hour course in either quantitative or qualitative methods to form a "core" of six hours in quantitative or qualitative methods.
- One three-hour course in advanced studies in research methods. The advanced course may be in any area, including internships and academic writing, and will typically include "Advanced" in the course title. This course is to be selected by the advisory committee to meet the specific research training needs of the student.

The EDSC-Educational Evaluation & Policy Specialization includes the above 12 hours of core research and

- EPE 601 PROSEMINAR
- EPE 619 SURVEY RESEARCH METHODS IN EDUCATION (SUBTITLE REQUIRED)
- EPE 620 TOPICS AND METHODS OF EVALUATION
- One additional three-hour course in advanced research methods

- One three-hour course in policy research
- One three-hour course in contextual studies
- Nine hours of electives chosen in conjunction with the students Advisory Committee.

A student's program of study may vary from this structure with approval from their program committee.

<https://education.uky.edu/epe/>

EDUCATIONAL POLICY STUDIES: PHILOSOPHICAL AND CULTURAL INQUIRY

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A masters degree or equivalent level of coursework
- A 500-word statement of purpose describing the student's intellectual and professional goals for completing the program. Applicants are advised to clearly indicate the areas of coursework and research they wish to pursue.
- Four letters of reference with at least two from referees familiar with the students' academic work
- Resume or Curriculum Vitae
- Writing sample demonstrating academic writing (e.g. chapter of master's thesis, course paper, scholarly essay)
- Application Deadlines vary by department, consult the EDSC webpage for details.
- GRE is not required for Specialization in Evaluation and Education Policy or Philosophical and Cultural Inquiry

Degree Requirements

Students are required to complete 12 hours of core research classes

- One three-hour course in quantitative research methods.

- One three-hour course in qualitative research methods.
- One additional and complementary three-hour course in either quantitative or qualitative methods to form a "core" of six hours in quantitative or qualitative methods.
- One three-hour course in advanced studies in research methods. The advanced course may be in any area, including internships and academic writing, and will typically include "Advanced" in the course title. This course is to be selected by the advisory committee to meet the specific research training needs of the student.

The EDSC-Philosophical and Cultural Inquiry Specialization includes the above 12 hours of core research and

- EPE 601 PROSEMINAR
- One three-hour course in philosophical studies
- One three-hour course in cultural studies
- One three-hour course in historical studies
- Six hours of electives focused on philosophical or cultural inquiry outside the College of Education
- Nine hours of electives chosen in conjunction with the students Advisory Committee.

A student's program of study may vary from this structure with approval from their program committee.

<https://education.uky.edu/epe/>

HEALTH EDUCATION

Customize a health education doctorate (Ph.D.) to follow your passion for a career in higher education. Our program will prepare you for research-focused faculty positions or careers that involve conducting research on behalf of community health agencies and organizations, corporations, or health-related governmental agencies. You will explore both individual and population health, focusing on evidence-based strategies, application of health behavior theory, and research inquiry across a variety of health topics and target populations.

In the health education Ph.D. program at the University of Kentucky, you will:

- develop an understanding of the full spectrum of health education, as well as an in-depth knowledge of one specific

area or discipline, such as college health promotion, youth health promotion, substance use prevention, community-based research/interventions, health inequities, and health policy

- participate in guided research projects designed to prepare you for conducting your own research
- conduct independent research aligned with your career goals as you develop scientific expertise
- gain teaching experience at the university level, preparing master's students for careers in health education
- write and publish research in high-quality journals
- collaborate with faculty on research and service projects
- have opportunities for multidisciplinary work within health education, health promotion, communication, social sciences, and/or other public health disciplines and topics.

With small class sizes in our health education graduate program, you will receive individual attention. We have a thriving graduate program in the Department of Kinesiology and Health Promotion and place the highest value on ethics, professionalism, and interdisciplinary work.

The PhD program utilizes a mentor-based admission process. Therefore, students are strongly encouraged to identify a faculty member with whom they wish to work prior to applying to the program.

<https://www.uky.edu/academics/doctoral/education-sciences-health-education-graduate>

Admission Requirements

- A master's degree or 30 semester hours of approved graduate course work with a 3.0 GPA.
- GRE: Not required
- CV
- Personal Statement: Statement of your professional aspirations and explain how you believe graduate study at the University of Kentucky will enhance your ability to achieve those professional goals. In your statement, provide information about your background, research skills and experiences, personal and professional achievements, and educational, work or life experiences that influenced you and your life goals.

- **Writing Sample:** Students who have not written a Master's level thesis will be required to submit an example of their research writing. A literature review or project from a completed class are acceptable examples for submission for application. Special circumstances will be considered at the discretion of the applicant's designated potential advisor.
- **Four letters of recommendation:** At least two must be from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

Degree Requirements

Our PhD. degree with specialization in Health Education requires students to complete a minimum of 42 hours of course work. The doctoral degree requires students to complete a core of 9-12 hours of health promotion courses, 12 hours of research/statistics/design courses plus supporting electives for a total of at least 42 hours. Students, with the approval of their advisory committee, select elective course work that will enhance their health education and health promotion knowledge and skills as well as their research skills. Additional information, including possible pre-requisites and electives, can be found on the departmental website: <https://education.uky.edu/khp/grad/>

The general structure of the coursework needed to complete the Ph.D. in Education Sciences with advanced concentration in Health Education course requirements is as follows:

- Pre-requisite courses (based on review of transcripts)
- Health Promotion Core Courses (9 hours)
- Research Methods/Stats Courses (12 hours minimum)
- Cognate Area (9 hours minimum)
- Independent Study/Research (6 hours minimum)
- Electives (6 hours minimum)
- Dissertation Hours (4 hours minimum)

PHYSICAL EDUCATION SPECIALIZATION

Searching for a physical education graduate school to best fit your interests? Customize our physical education doctorate program (Ph.D.) to follow your passions. You will gain an

understanding of the full spectrum of physical education, along with in-depth knowledge of one specific area or disciplines such as comprehensive school physical activity programs, behavior management in activity settings, and motivating individuals to be active. Both online and face-to-face options available.

In the physical education doctorate program (Ph.D.) at the University of Kentucky, you will:

- participate in guided research projects designed to prepare you for conducting your own research
- conduct independent research as you develop scientific expertise
- gain teaching experience at the university level, preparing bachelor's and master's students for careers in physical education and health teaching
- write and publish research in high-quality journals
- collaborate with faculty on research and service projects
- network with physical education teacher educators from across the country and around the world

You will develop extensive subject-matter expertise and discover potential research topics in courses covering physical education, physical activity promotion, epidemiology, sociology, behavioral science, and public health.

Admission Requirements

- A master's degree or 30 semester hours of approved graduate course work with a 3.0 GPA.
- GRE: Not required
- CV
- Personal Statement: Statement of your professional aspirations and explain how you believe graduate study at the University of Kentucky will enhance your ability to achieve those professional goals. In your statement, provide information about your background, research skills and experiences, personal and professional achievements, and educational, work or life experiences that influenced you and your life goals.
- Writing Sample: Students who have not written a Master's level thesis will be required to submit an example of their research writing. A literature review or project from a completed class are acceptable examples for submission for

application. Special circumstances will be considered at the discretion of the applicant's designated potential advisor.

- Four letters of recommendation: At least two must be from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

With small class sizes in our physical education graduate programs, you will receive individual attention. We have a thriving graduate program in the Department of Kinesiology and Health Promotion and place the highest value on ethics, professionalism, and interdisciplinary work.

Degree Requirements

The PhD program has a required core of classes and sample of electives. The student may have an emphasis in specific areas of education. Additional information, including possible pre-requisites and electives, can be found on the departmental website: <https://education.uky.edu/khp/grad/>

Required Research Methods and Statistics Core (12 hours)

Includes a minimum of 3 hours of qualitative and 3 hours of quantitative analysis.

A total of nine hours must be chosen from either quantitative or qualitative courses. Three additional hours of advanced study are to be selected by the advisory committee to meet the specific research and statistical training needs of the student.

Advanced Strand (18 hours)

- KHP 601 TEACHING EFFECTIVENESS AND LEADERSHIP IN KINESIOLOGY AND HEALTH EDUCATION
- KHP 602 PROMOTING PHYSICAL ACTIVITY FOR YOUTH
- Two additional courses in KHP or related area (6+ hours)

Other related courses including research courses (6+ hours)

- KHP 695 INDEPENDENT STUDY IN KINESIOLOGY AND HEALTH PROMOTION
- KHP 782 INDEPENDENT RESEARCH IN KINESIOLOGY AND HEALTH PROMOTION

Dissertation (2+ hours)

- KHP 767 DISSERTATION RESIDENCY
CREDIT (2 hrs/semester after passing qualifying exams)

QUANTITATIVE AND PSYCHOMETRIC METHODS

The primary objective of the QPM program is to promote the development of advanced quantitative and psychometric knowledge and skills that allow program graduates to function as competent independent researchers or scientists who can innovatively and effectively carry out research design and data analysis for all kinds of empirical purposes.

Admission Requirements

- Degrees
 - For admission of exceptional undergraduate students. Undergraduate degrees in STEM, social sciences, behavioral sciences, education sciences, and other fields with adequate coursework in mathematics and/or statistics.
 - Master degrees in STEM, social sciences, behavioral sciences, education sciences, and other fields with adequate coursework in mathematics and/or statistics.
- GPA (no minimum standard)
- GRE General (no minimum standard)
- TOEFL (for international students, UK minimum standard)
- Personal statement
- Three (3) reference letters

Degree Requirements

- 36 credit hours of coursework
- Common Research Methods and Statistics Core (12 hours)
- Interdisciplinary Core (6 hours)
- Quantitative and Psychometric Methods (QPM) Core (18 hours)
- Internship (optional)
- Qualifying Exam (after completion of coursework)
- Dissertation Proposal Defense

- Final Dissertation Oral Defense

<https://education.uky.edu/edp/qpm/>

STEM EDUCATION

The Education Sciences Interdisciplinary Ph.D. with an emphasis in STEM Education is an intensive program designed to prepare future researchers, teacher educators, and researcher-practitioners to meet the national call for more individuals with heightened scholarly expertise in STEM Education. The Education Sciences Interdisciplinary Ph.D. program requires study throughout the year. Full-time study is strongly encouraged; however, part-time study is a possible alternative, particularly for professional educators.

Admission Requirements

- GRE scores (preferably from within the past 10 years - if you are a KY teacher applying for rank change, GRE must be within the last 5 years)
- TOEFL or IELTS (for international students whose native language is not English)
- GPA requirement: 2.75 undergraduate; 3.0 Graduate work
- Official transcripts: official transcripts from all post-secondary institutions attended
- A short statement about your career goals and interests
- Writing sample (e.g., paper written for coursework requirement, grant application, publication)
- Three letters of recommendation (the online system will email your references to submit their letters)
- Interview with STEM Ed faculty specializing in your area of interest (Interview will be scheduled upon completion of application materials)
- Onsite writing sample prior to interview

Degree Requirements

- Total credit hours - 45 credit hours plus qualifying exam and dissertation residency

- 12 hours education research methods
- 15 hours STEM Education core
- 9 hours STEM Education methods
- 9 hours electives
- Electives can be graduate level coursework in any discipline, but it is recommended that they are at the 600 level or above. (optional)

<https://education.uky.edu/stem/graduate/phd/>

Graduate Certificate

Distance Education Certificate

In response to increasing student demand, a large number of postsecondary institutions and agencies in public health, government and private business are developing distance learning programs. However, distance education requires a unique set of skills for course program development, management, support, and delivery. To prepare current and future faculty and administrators, the University of Kentucky offers a graduate certificate in distance education through the collaborative efforts of the Department of Early Childhood, Special Education and Rehabilitation Counseling and the Department of Curriculum and Instruction within the Instructional Systems Design (EISD) program and Distance Learning Programs.

Senior Diversity Officer Leadership Certificate

This is a nine-hour, fully online Graduate Certificate in Senior Diversity Officer Leadership prepares students for high-level administrative positions in diversity, equity, and inclusiveness leadership in higher education settings. Colleges and universities across the nation are seeking leaders to serve as change agents, bringing innovation, creativity, and high-level strategic thinking to diversity, equity, and inclusiveness roles on their campuses.

This graduate certificate is designed to inspire and equip students for innovative, high-level strategic thinking in diversity, equity, and inclusion roles in higher education and related settings.

Department of Early Childhood, Special Education, and Rehabilitation Counseling

Doctor of Philosophy

Early Childhood, Special Education, and Rehabilitation Counseling, PhD

The Counselor Education Doctoral Program offers a Departmental Ph.D. degree with a formal option in Counselor Education, Research, and Policy. The doctoral program is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The doctoral program is campus-based and is not offered on-line. We have carefully designed our doctoral curriculum to meet the needs of students who are preparing for careers in rehabilitation counselor education, research, and administration. Our students complete advanced doctoral seminars in rehabilitation counseling research, psychosocial aspects of chronic illnesses and disability, rehabilitation counseling theory, professional rehabilitation counseling issues, and rehabilitation administration and policy. In these courses, students explore a wide range of psychosocial, societal, and international perspectives on disability and counseling. In addition to the counseling professional seminars, doctoral students' complete coursework in the following areas:

- A Graduate Core (23 hours), including coursework in college and university teaching, grant writing, clinical practicum experiences and practicum experiences in university teaching, and dissertation residency.
- A Counselor Education area of emphasis core (15 hours) (counseling professional seminars, described above).
- A thematic support area from outside the area of emphasis (15 hours), including interdisciplinary coursework consisting of courses from outside the Department, such as: Psychology, Rehabilitation Sciences, Educational and Counseling Psychology, Social Work, Sociology, Communication Disorders, or other areas, designed to develop the student's expertise in a focused area of rehabilitation

counseling research, and typically this core directly relates to the student's dissertation topic.

- A research block (21 hours), including course work in statistical methods, quantitative research methods, qualitative research methods, and mixed method approaches, and research internships.

Each student's program of studies is planned and supervised by an Advisory Committee consisting of 4 individuals, including the student's major professor and two other members from the Department. The remaining member represents the student's outside support area. Upon completion of the prescribed coursework, students are examined to evaluate their preparedness to be advanced to candidacy for the Doctor of Philosophy degree. The basis of this evaluation is completion of a qualifying examination administered by the student's Advisory Committee.

Admission Requirements

Applicants are required to have an undergraduate GPA of at least 2.75.

A Master's degree in Rehabilitation Counseling or a closely-related field with a GPA of at least 3.5. (Note: Students who are entering with a non-Rehabilitation Counseling Master's degree program may be required to take leveling, or foundational courses as described below.).

Submission of Graduate Record Examination (GRE) scores (mandatory for all doctoral applicants).

Minimum of one year (at least two preferred) of post- Master's experience in rehabilitation counseling or a related field (program will alternatively consider extensive prior related experience and exceptional academic performance on an individual basis).

- At least three (3) positive recommendations attesting to the candidate's professional disposition and fitness for the profession, self-awareness and emotional stability, oral and written communication skills, cultural sensitivity and awareness, and potential for scholarship, professional leadership, and advocacy.
- Written statement of the applicant's objectives for completing a doctoral program; and

- A sample of the applicant's academic and/or professional writing. Final admissions decisions are the purview of the Department's faculty.

Note: For students applying to the Ph.D. Formal Option with a Master's or graduate degree that is not from a CORE- or CACREP-accredited rehabilitation counseling program, foundational rehabilitation counseling content and core counseling content courses may be required prior to, or concurrent with enrollment. Decisions about the need for foundational coursework are the purview of the Program faculty and will be made on an individual basis, based on review of the applicant's previous graduate coursework, review of applicant's transcripts and course descriptions; previous graduate coursework may in some cases be substituted.

Foundational Coursework includes the following: (a) Foundations or Principles of Rehabilitation Counseling or Counseling, (b) Social and Cultural Diversity, (c) Human Growth and Development, (d) Career Theory and Development, (e) Individual and Group Counseling Theories and Models, (f) Assessment and Testing, (g) Research and Program Evaluation, (h) Psychosocial and Medical Aspects of Disability.

Degree Requirements

A typical course sequence is as follows:

- Coursework from Professional Seminars in Advanced Rehabilitation Counseling may include:
 - CED 740 ADMINISTRATION, SUPERVISION AND PROGRAM EVALUATION IN REHABILITATION COUNSELING
 - CED 735 ADVANCED METHODS FOR TEACHING AND CONDUCTING RESEARCH IN COUNSELOR EDUCATION: FROM THEORY TO PRACTICE
 - CED 711 SEMINAR IN ADVANCED REHABILITATION PRACTICES AND PROCEDURES
 - CED 760 CONTEMPORARY PRACTICES IN REHABILITATION

- CED 715 ADVANCED SEMINAR IN PSYCHOSOCIAL ASPECTS OF CHRONIC ILLNESS AND DISABILITY
 - CED 770 ADVANCED SEMINAR IN REHABILITATION COUNSELING THEORY, PRACTICE, AND EDUCATION
 - EDS 701 / CED 701 / IEC 701 : Seminar for EDSRC Leadership Personnel (1 credit each, 4 semesters) (4)
 - EDS 712 / CED 712 / IEC 712 : Seminar in EDSCE Professional Services (3)
 - EDS 720 / CED 720 / IEC 720 : Seminar in EDSCE Teacher Preparation (3)
 - EDS 721 / CED 721 / IEC 721 : Practicum in EDSCE Personnel Preparation (3-9)
 - EDS 767 / CED 767 / IEC 767 : Dissertation Residency Credit (≥ 4). EDS 767 is taken for a minimum of two credits per semester for two semesters (excluding summer terms) after successful completion of the qualifying examination.
 - CED 710 CLINICAL PRACTICUM IN COUNSELING (Doctoral Section)

Rehabilitation Counseling Area of Emphasis (15 credits)

Thematic Support Area (15 credits)

Research Tools (21 credits)

Required Practicum Experiences

Clinical practicum experiences are required of all doctoral students. As with the didactic portion of the curriculum, practica experiences are planned according to the individual backgrounds and needs of each student. Students are required

to complete a 200-hour clinical practicum (40% of which must be direct client contact hours).

Required Internship Experience

In the course of their program plan, students will complete 600-clock hours of supervised internship, addressing three of the five following areas: Counseling, Supervision, Teaching, Research and Scholarship, Leadership and Advocacy. The internships are designed to ensure doctoral-level experience in counselor education areas including: campus and distance-based teaching, supervision, and clinical counseling. The nature and focus of the internship will be determined in consultation with each student individually.

Professional Involvement

We encourage and support student's professional development, with an emphasis on participation in the rehabilitation counseling profession at the national level through research, publication, and participation in national conferences and leadership opportunities in our national and regional rehabilitation counseling professional associations. We provide support to our students through research grants and teaching assistantships, and a number of funding opportunities that are available to our doctoral students through our graduate school.

Special Education, PhD

The goal of the Special Education Leadership Personnel Preparation Program is to prepare students to assume positions as educators, researchers, and scholars in higher education settings. The program leads to the Doctor of Philosophy in Education degree (Ph.D.).

Students in the Ph.D. in the Department of Early Childhood, Special Education, and Counselor Education may select program focus areas in applied behavior analysis, assistive technology, learning and behavior disorders, moderate and severe disabilities, and interdisciplinary early childhood education. There is a formal option in Counselor Education. See the Counselor Education Doctoral Program that offers a Departmental Ph.D. degree with a formal option in Counselor Education, Research, and Policy.

Admission Requirements

Admission requirements for the Ph.D. program include:

- A minimum undergraduate cumulative grade point average of 2.75.
- Combined scores on the verbal and quantitative portions of the Graduate Record Examination (GRE) of 300 (current scale) or 1000 (prior scale).
- A fifth-year certification OR a master's degree in special education, interdisciplinary early childhood education, or counselor education with a minimum grade point average of 3.5.
- A minimum of three (3) years of successful experience in special education or related field.

- At least four (4) positive recommendations attesting to the candidate's ability as a professional with potential for success in doctoral study.
- A statement of the applicant's objectives for completing a doctoral program.
- A personal statement or brief autobiographical statement of the applicant.
- A sample of the applicant's academic or professional writing.

If an applicant meets these criteria and appears to have the background, academic record, experience, and professional objectives that are consistent with Departmental expectations, the person is invited to campus to interview with faculty and to meet current doctoral students. If the candidate is unable to visit the campus, arrangements can be made for telephone or web-conference interviews with members of the Department's Graduate Admissions and Standards Committee (GASC). However, it is highly recommended that applicants visit campus.

The GASC then makes a decision about admission. If all criteria are met, a recommendation is forwarded to the Graduate School via the Department's Director of Graduate Study (DGS). Typically, admission decisions are made no later than 30 days after the interviews have been completed.

Deadlines: Application deadlines are March 1 for Fall applications and October 1 for Spring applications.

Degree Requirements

The first phase of study (up to 18 semester hours) is considered the preliminary year. During this period, students are expected to demonstrate basic competencies in applied behavior analysis, assessment, general special education content, instructional strategies, and technology. They may do this by fulfilling the requirements of the required graduate core courses.

Each student is required to develop and maintain a portfolio with entries included from each course. Collectively, these entries should reflect the post-doctoral role within institutions of higher education and/or other services for which the student is preparing. Thus, entries will include but are not limited to: (a) developing training curricula, (b) teaching content and methods courses, (c) supervising practicum experiences, including student teaching, (d) advising students, (e) providing consultation and other services, (f) giving professional conference presentations, (g) conducting research, including writing scholarly publications, and (h) writing research and training grant proposals for extramural funding in special education. The student work is guided, during the first year, by a temporary advisor, who may be selected by the student with the approval of the Department's DGS. In the event that the student's choice of an advisor is not available, or if the student does not have a choice, the DGS will appoint a temporary advisor after consulting with the Department's GASC.

Students then select a faculty member to serve as a mentor. After obtaining the consent of a faculty member to serve as mentor, the student and mentor also select an Advisory Committee of three additional faculty members who will assist in the development and supervision of the student's program of study.

Coursework, independent study products, and practicum experiences are selected by the student's doctoral advisory committee to ensure

that this level of specialization is appropriate for a person at the doctoral degree level. Following the guidelines adopted by the College of Education, the doctoral program must consist of a minimum of 42 credit hours past the master's degree. Most doctoral students take between 60 and 100 semester hours of coursework (including the master's degree).

Core requirements

Specific course requirements for individual students will vary according to each student's background and stated objectives. Competency lists that have been developed by faculty in the Department guide the selection of courses and related training experiences. However, each student must complete a graduate core (23 credits), coursework in a departmental area of emphasis consisting of at least 15 credits, coursework in a support area (a minimum of 15 credits), and a research block of courses (minimum of 21 credits). The coursework is divided among four areas:

- Special education personnel preparation
- An area of emphasis selected from the following:
 - Applied behavior analysis
 - Assistive technology
 - Interdisciplinary early childhood education
 - Learning and behavior disorders
 - Moderate and severe disabilities
 - A thematic support area from outside the department area of emphasis.
- A research block of courses.

Students complete required doctoral core requirements include the following courses:

- EDS 601 CONCEPTS AND PRINCIPLES OF APPLIED BEHAVIOR ANALYSIS (3) **or**
- CED 740 ADMINISTRATION, SUPERVISION AND PROGRAM EVALUATION IN REHABILITATION COUNSELING (3)
- EDS 633 SINGLE CASE RESEARCH METHODOLOGY (3) **or**
- CED 735 ADVANCED METHODS FOR TEACHING AND CONDUCTING RESEARCH IN COUNSELOR EDUCATION: FROM THEORY TO PRACTICE (3)
- EDS 701 SEMINAR FOR EDSCE LEADERSHIP PERSONNEL (1 credit each, 4 semesters)
- EDS 710 SEMINAR IN MILD DISABILITIES (3) **or**
- EDS 711 SEMINAR IN MODERATE AND SEVERE DISABILITIES (3) **or**
- IEC 709 SEMINAR IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION (3) **or**
- CED 711 SEMINAR IN ADVANCED REHABILITATION PRACTICES AND PROCEDURES (3)
- EDS 712 SEMINAR IN EDSCE PROFESSIONAL SERVICES (3)
- EDS 720 SEMINAR IN EDSCE TEACHER PREPARATION (3)
- EDS 721 PRACTICUM IN EDSCE PERSONNEL PREPARATION (3)
- EDS 767 DISSERTATION RESIDENCY CREDIT (3-9) EDS 767 is taken for a minimum of two credits per semester for two semesters (excluding summer terms) after successful completion of the qualifying exam

Electives

The student's electives are individually determined by the doctoral advisory committee.

<https://education.uky.edu/edsrc/eds/degrees-programs/doctorate/>

Graduate Certificate

Applied Behavior Analysis Certificate

This 21-credit hour graduate certificate is designed to meet the coursework requirements for students that wish to pursue the Board Certification in Behavior Analysis (BCBA) . To obtain a BCBA, there are 4 criteria that must be met including a master's degree, coursework covering the necessary 315 content hours, 2000 field experience hours, and passing the national board exam. This certificate will meet the coursework requirement of the certification.

Assistive and Rehabilitation Technology Certificate

The graduate certificate in assistive and rehabilitation technology is a collaborative effort between the Department of Early Childhood, Special Education, and Rehabilitation Counseling and the Department of Rehabilitation Sciences in the College of Allied Health and the Human Development Institute. Students may choose an emphasis from either special education or rehabilitation counseling. Both emphases will require three foundation courses, one related elective and one practicum course for a total of 15 graduate hours. The content of the certificate is broad. Major areas include Assistive Technology Devices, Assistive Technology Assessment and Coordination of Assistive Technology Services.

Autism Spectrum Disorders Certificate

The College of Education offers a graduate certificate in Autism Spectrum Disorders (ASD). The certificate is a collaborative effort between the department of special education and rehabilitation counseling, and the department of educational, school, and counseling psychology in the College of Education and the Department of Communication Sciences and Disorders in the College of Health Sciences. The primary purpose of this 15-credit hour certificate is to provide special education teachers and related personnel from across the state with advanced credentials that will allow them to implement evidence-based and research-based strategies. The certificate will accomplish the following:

- efficiently and effectively equip professionals to meet federal and state demands for quality
- provide professionals with the knowledge and skills to identify, use, and recommend researchbased practices for students who have ASD, including students from culturally and linguistically diverse backgrounds
- provide personnel with knowledge and skills to work collaboratively with district and schoollevel teams.

The specialized five course ASD graduate certificate program will include competencies in the following areas:

- implementing evidence-based and research-based instruction
- using data from formal and informal assessments to guide instruction, and
- serving as specialists in district and school-wide programs to support students with autism in improving areas of communication, socialization, behavior, and access to the general education curriculum

Master of Arts in Counseling

Counselor Education, MAC

Graduates of this program receive a Master of Arts in Counseling (M.A.C) in Counselor Education with a specialty in either Clinical Mental Health Counseling or Rehabilitation Counseling. Our program is approved by the Kentucky Council on Higher Education and is the only Master's program in Rehabilitation Counseling in the Commonwealth. We are also proud to have nationally recognized faculty within a program that has been consistently ranked in the top ten rehabilitation counseling programs in the country by U.S. News and World Report.

Delivery Method: Online (No residency requirement)

Admission Requirments

- An undergraduate G.P.A. of 2.75 or higher, or a graduate GPA of at least 3.00
- CV/Resume
- Official transcripts
- A personal interview with program faculty
- Three references indicating appropriateness of student for the program
- A written statement indicating interest in and goals for the degree program
- GRE scores are not required

Degree Requirements

Course Work

Both specialty areas in Rehabilitation Counseling and Clinical Mental Health

Counseling require the completion of 60-credit hours of graduate work in the appropriate specialty area. Both specialties require 43 hours from the core curriculum and 17 credit hours of electives specialization courses. Students in the Rehabilitation Counseling specialty area may complete the Certified Rehabilitation Counselor Examination in lieu of a program final. Any student who does not take a national certifying exam will be required to take a 100-question multiple choice test that will cover the same content.

Field Work

Practicum (3 credit hours): a supervised practicum experience of 200 hours

Internship (9 credit hours): a supervised internship experience of 600 hours

CED 710 must be successfully completed to advance to CED 730 (NOTE: CED 710 and CED 730 are taught over 12 weeks in the summer semester)

Certification in Rehabilitation Counseling

Students interested in achieving the Certified Rehabilitation Counselor (CRC) credential should visit the Commission on Rehabilitation Counseling Certification website to learn more and keep up-to-date with pertinent deadlines.

Professional Counselor Licensure

Licensing in professional counseling is a state-specific credential. UK provides information about licensure in various states through UK Online. Students should also visit their state's licensure board website to ensure that our curriculum will meet the requirements for licensure.

Master of Arts in Education

Orientation and Mobility, MAEDU

The Department of Early Childhood, Special Education, & Counselor Education offers a Master of Arts Program in Orientation and Mobility (O&M). The program uses a hybrid course delivery model, including both face-to-face and on-line courses. Face-to-face courses occur on weekends and in the summer at either the Kentucky School for the Blind (KSB) in Louisville or at the University of Kentucky in Lexington.

The O&M program prepares individuals to provide instruction related to knowledge and skills for independent travel for children and adults with visual impairments, including those with additional disabilities. These professionals teach topics including: the use of canes and dog guides, independent travel skills, sensory and motor development, and advanced travel in complex environments.

The University of Kentucky has the distinction of offering the only O&M program in Kentucky.

Admission Requirements

Applicants must have completed a bachelor's degree in any field with a minimum of 2.75 overall or 3.0 GPA in the last 30 credit hours to apply.

Applications must include the following:

- Resume/CV
- Personal Statement (1-2 pages on why you want to be an O&M specialist)
- Official transcripts from all previous universities or colleges
- Three (3) completed reference forms or letters

Applications are accepted in the spring on even years for a fall semester start of that year.

Degree Requirements

Prerequisite Coursework (see program website for more information on transfer courses and concurrent enrollment)

- BVI 580 INTRODUCTION TO VISUAL IMPAIRMENTS (3)
- BVI 582 ANATOMY AND PHYSIOLOGY OF THE EYE (3)
- BVI 583 BRAILLE CODES I (3)

30 credit hours with an overall GPA of 3.0

- CED 525 HUMAN GROWTH, DISABILITY, AND DEVELOPMENT ACROSS THE LIFESPAN (3)
- BVI 620 FOUNDATIONS OF ORIENTATION AND MOBILITY (3)
- BVI 621 INTRODUCTION TO SKILLS AND TECHNIQUES IN ORIENTATION AND MOBILITY (2)
- BVI 622 ADVANCED SKILLS AND TECHNIQUES IN ORIENTATION AND MOBILITY (2)
- BVI 623 ORIENTATION AND MOBILITY FOR CHILDREN (3)

- BVI 624 TECHNOLOGY IN ORIENTATION & MOBILITY (1)
- BVI 626 METHODS IN ORIENTATION AND MOBILITY (3)
- BVI 627 ORIENTATION AND MOBILITY FOR INDIVIDUALS WITH COMPLEX NEEDS (3)
- BVI 628 ASSESSMENT IN ORIENTATION AND MOBILITY (3)
- BVI 629 PRACTICUM IN ORIENTATION AND MOBILITY (1)
- BVI 720 INTERNSHIP IN ORIENTATION AND MOBILITY (6)

Successful completion of practicum and internship

- Refer to program website for specific requirements

Satisfactory demonstration of all program standards

Program

website: <https://www.uky.edu/academics/masters/orientation-and-mobility-graduate>

Master of Science

Applied Behavior Analysis, MS

The field of Applied Behavior Analysis is the application of the science of behavior to understand and improve human behavior. Our goal is to create a socially significant change in behavior that improves the lives of our clients.

The Master of Science in Applied Behavior Analysis (MS in ABA) is an on-campus degree program that will train graduate students to provide behavior analytic services to individuals with challenging behavior and/or skill deficits.

These services are provided through direct care, consultation, support, and training to teachers, staff, parents, and clients. The MS in ABA provides opportunities for graduate students to work within schools, homes, clinics, or related settings with individuals with or at-risk for disabilities (Birth - 21 years of age).

Admission Requirements

- Applicants must hold a bachelor's degree in psychology, education, special education, social work, communication disorders, or a closely related field.
- Applicants must have a minimum of a 3.0 undergraduate grade point average or a minimum of 3.25 graduate grade point average.
- Applicants must secure three (3) letters of recommendations with one related to academic performance (e.g., from professor, advisor) and two related to the applicant's work with children and youth (e.g., from practicum supervisor, research supervisor).
- Applicants must submit an updated CV (or resume) overviewing their education and experiences.
- Applicants must submit a writing sample of a scholarly paper (e.g., research paper, literature review completed in APA formatting).
- Applicants must submit a personal statement describing previous experiences that led to this career goal.
- Applicants must participate in an interview with program faculty.
- Upon acceptance, applicants must satisfactorily pass a criminal background

check (due to the nature of the work performed by behavior analysts).

Applications are due December 15 for a Fall start.

Degree Requirements

The M.S. in ABA degree is a 42-credit hour program.

The Association for Behavior Analysis International (ABAI) has accepted courses within the MS in ABA program as a verified course sequence. In addition, students in the MS in ABA program will receive required supervision within the practicum setting. The verified course sequence and practicum/supervision requirements will prepare those who complete the MS in ABA to sit for the Board Certified Behavior Analyst (BCBA) examination. More information regarding the BCBA examination and requirements can be found at www.bacb.com.

Core classes include:

- EDS 601 CONCEPTS AND PRINCIPLES OF APPLIED BEHAVIOR ANALYSIS
- EDS 603 BEHAVIORAL CONSULTATION AND SUPERVISION
- EDS 605 ASSESSMENT AND TREATMENT OF SOCIAL AND ADAPTIVE BEHAVIORS
- EDS 612 ADVANCED PRACTICUM: SPECIAL EDUCATION
- EDS 617 PROFESSIONAL ETHICS FOR BEHAVIOR ANALYSTS
- EDS 618 ASSESSMENT AND TREATMENT OF PROBLEM BEHAVIOR
- EDS 630 ADVANCED METHODS FOR TEACHING STUDENTS WITH DISABILITIES
- EDS 633 SINGLE CASE RESEARCH METHODOLOGY

- EDS 660 OVERVIEW OF CHARACTERISTICS AND INSTRUCTIONAL STRATEGIES FOR INDIVIDUALS WITH ASD
- EDS 661 ADVANCED INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH ASD
- EDS 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE PROGRAM

<https://education.uky.edu/edsrc/eds/degrees-programs/aba/>

Master of Science in Education

Interdisciplinary Early Childhood Education, MSEDU

The IECE Master of Education program may be completed as an entirely online program, an entirely on-campus program, or as a hybrid program in which a combination of on-campus and online courses are taken. Students completing the program online will enroll in course sections designated for distance students, and students completing the program on-campus will enroll in course sections designated for on-campus students. Both on-campus and online students receive the same content and jointly attend class in technology-enhanced classrooms (i.e., online students participate in synchronous courses through Zoom technology).

The IECE Master of Education program allows students to complete the program with or without conducting a Thesis. Students choosing to conduct a Thesis will complete 30 credit hours. Students choosing not to conduct a Thesis will complete 36 credit hours and present a Capstone Project to program faculty. It is recommended that students discuss Thesis and non-Thesis options with

program faculty on an individual basis to determine an appropriate option for completing the IECE Master of Education program.

Admission Requirements

- Transcripts from all higher education institutions attended
- TOEFL or IELTS Scores for all applicants whose native language is not English
- Curriculum Vitae
- Philosophy of Education and Goals Statement
- Three Letters of Recommendation

Degree Requirements

Total credit hours

- 30 credit hours (thesis option)
- 36 credit hours (nonthesis option)

Core requirements

- IEC 620 ASSESSMENT IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION
- IEC 621 ISSUES IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION
- IEC 623 ADVANCED PRACTICUM: INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION

- IEC 710 ADVANCED INSTRUCTIONAL METHODS IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION
- IEC 659 ADVANCED CHILD DEVELOPMENT

Electives

Courses should be selected in consultation with advisor from an approved menu of leadership courses.

- Administration and Program Development
- Curriculum Leadership and Technical Assistance
- Policy and Advocacy
- Higher Education and Research

<https://education.uky.edu/edsrc/iece/med>

Special Education, MSEDU

The 30-hour master's degree can be completed on a part-time basis over the course of five semesters (2.5 calendar years). The courses are offered in a face-to-face format for local students and in an online format for those students who are not local. Students taking the online version of the program attend courses virtually and can interact with professors and classmates in real-time. All classes take place in the evenings to allow teachers to complete their workday prior to attending class. Taking the GRE is not required for entry. Admission is accepted for both Fall and Spring semesters, however the core courses begin in Fall semesters, therefore a Spring admission may not

be appropriate unless the student requires some prerequisite coursework.

The master's degree has three options for specialization. The focus area the student chooses will shape the coursework, research projects, and clinical experiences in which the student will participate. The focus areas include:

- The Moderate and Severe Disabilities Track is available for teachers who hold certification in moderate and severe disabilities.
- The Learning and Behavior Disorders Track (not available online) is available for teachers who hold certification in learning and behavior disorders.
- The Assistive Technology track is open to teachers with either type of certification in special education.

Admission Requirements

To be admitted to the master of science in special education program, students need to be certified in special education or have an undergraduate degree in special education. Students must have a minimum undergraduate cumulative grade point average of 2.75.

Degree Requirements

Total credit hours

- 30 hours

Core requirements

Core requirements include the following courses:

- EDS 601 CONCEPTS AND PRINCIPLES OF APPLIED BEHAVIOR ANALYSIS (3)
- EDS 618 ASSESSMENT AND TREATMENT OF PROBLEM BEHAVIOR (3)
- EDS 630 ADVANCED METHODS FOR TEACHING STUDENTS WITH DISABILITIES (3)
- EDS 633 SINGLE CASE RESEARCH METHODOLOGY (3)
- EDS 634 LEADERSHIP IN SPECIAL EDUCATION (3)
- EDS 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE PROGRAM (1-3)

Additional coursework by Focus Area:

MSD Focus

- EDS 631 ADVANCED PROGRAMMING FOR STUDENTS WITH MODERATE AND SEVERE DISABILITIES (3)
- EDS 632 ADVANCED PRACTICUM: MODERATE AND SEVERE DISABILITIES (6)

LBD Focus

- EDP 557/EPE 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA (3)
- EDS 610 ADVANCED EDUCATIONAL ASSESSMENT FOR STUDENTS WITH MILD DISABILITIES (3)
- EDS 611 CONTEMPORARY TRENDS AND ISSUES IN THE EDUCATION OF STUDENTS WITH MILD DISABILITIES. (3)

AT Focus

- EDS 640 ASSISTIVE TEACHING (3)
- EDS 641 ASSISTIVE TECHNOLOGY ASSESSMENT (3)
- EDS 648 COORDINATING ASSISTIVE TECHNOLOGY PROGRAMS (3)

Electives

Students may choose from 2-5 credit hours of electives including:

- EDC 454G/EPE 454G CULTURE, EDUCATION AND TEACHING ABROAD (3)
- EDC 724 GUIDING AND ANALYZING EFFECTIVE TEACHING (3)
- HDI 604 INTERDISCIPLINARY LEADERSHIP SEMINAR (2)
- HDI 605 INTERDISCIPLINARY LEADERSHIP PRACTICUM (2)
- Select from EDL Teacher Leadership Courses (2)

<https://education.uky.edu/edsrc/eds/degrees-programs/masters/>

Teacher Preparation Program in Visual Impairments, MSEDU

The Department of Early Childhood, Special Education, & Counselor Education offers a Master of Science degree in the Teacher Preparation Program in Visual Impairments. The program uses a hybrid course delivery model including both face-to-face and online courses. Face-to-face courses occur on weekends and in the summer at either the Kentucky School for the Blind (KSB) in Louisville or at the University of Kentucky in Lexington.

A Teacher of the Visually Impaired (TVI) educates children in a variety of learning and instructional

topics including: assessing and evaluating educational strengths and needs including functional vision and learning media assessments; determining appropriate services and instructional goals; and providing training in the use of adapted materials and devices. A TVI also provides direct instruction in the expanded core

curriculum which includes compensatory academic skills, career exploration, sensory efficiency skills, social skills, assistive technology, recreation and leisure activities, self-determination skills, and independent living skills.

The University of Kentucky has the distinction of offering the only program to train teachers of the visually impaired in Kentucky.

This degree does not necessarily lead to teacher certification. Candidates should contact the program's Director of Graduate Studies (DGS) about additional teacher certification requirements. Information is also available on the program website at: <https://education.uky.edu/edsrc-programs/teacher-prep-visual-impairments/>

Admission Requirements

Applicants must have completed a bachelor's degree in any field with a minimum of 2.75 overall or 3.0 GPA in the last 30 credit hours to apply.

Applications must include the following:

- Resume/CV
- Personal Statement (1-2 pages on why you want to be a TVI)
- Official transcripts from all previous universities or colleges
- Three (3) completed reference forms or letters

Degree Requirements

33 credit hours with an overall GPA of 3.0

- BVI 580 INTRODUCTION TO VISUAL IMPAIRMENTS (3)
- BVI 582 ANATOMY AND PHYSIOLOGY OF THE EYE (3)
- BVI 583 BRAILLE CODES I (3)
- BVI 611 TEACHING METHODS FOR STUDENTS WITH VISUAL IMPAIRMENTS (3)
- BVI 614 BRAILLE CODES II (3)
- BVI 615 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH VISUAL IMPAIRMENTS (3)
- BVI 616 EXPANDED CORE CURRICULUM FOR BLIND AND VISUALLY IMPAIRED (3)
- BVI 617 VISUAL IMPAIRMENTS AND MULTIPLE DISABILITIES (3)
- BVI 618 ASSESSMENT OF STUDENTS WITH VISUAL IMPAIRMENTS (3)
- BVI 710 STUDENT TEACHING/FIELD EXPERIENCE IN VISUAL IMPAIRMENTS (6)

Successful completion of field experience(s)

- Refer to program website for specific requirements

Satisfactory demonstration of all program standards

Program

website: <https://education.uky.edu/edsrc-programs/teacher-prep-visual-impairments/>

Specialist in Education

Education - Special Education, EDS

Specialist Degree (Ed.S.) programs are individually planned for an in-depth study in an area of special education. In addition to coursework, the program requires a research project with a written product for completion. On occasion, students seeking a doctorate degree elect to first earn a specialist degree in order to gain research experiences prior to conducting a dissertation. Other individuals use the specialist degree program to meet Rank I teacher certification requirements.

Additional individual objectives may be appropriate for this degree. Individuals interested in this program should contact the department's Director of Graduate Studies for Special Education.

Admission Requirements

Program applicants must meet the following prerequisites:

- Completion of a master's degree,
- A 3.4 GPA or higher on all graduate work,
- Meet the requirements for a teaching certificate or have credentials appropriate to the field of specialization, and
- Have completed at least 30 semester hours in courses in education (graduate and undergraduate).

Degree Requirements

The student must earn a minimum of 30 credit hours of graduate work beyond the master's degree, of which at least 15 must be in courses numbered 600 or above.

A departmental committee is responsible for helping students plan individual programs. The program should contribute to specialization in a field.

The student must complete an independent research project (equal to 3 but not to exceed 6 credit hours) and submit a written report, a copy of which is to be filed with the department directing the research.

With the approval of the Director of Graduate Studies and the Dean of the Graduate School, the student may transfer a maximum of 9 credit hours earned beyond the master's degree from an accredited institution that is approved to offer work above the master's level.

The final examination required of all candidates is administered by an examining committee consisting of at least three qualified members recommended by the adviser and the Director of Graduate Studies and appointed by the Dean of the Graduate School.

<https://education.uky.edu/edsrc/eds/specialist/>

Department of Education

Curriculum and Instruction

Doctor of Education

Instruction and Administration, EDD

The doctorate (Ed.D.) in Instruction & Administration prepares students to conduct research, teach, and/or assume leadership roles in the field of curriculum & instruction. Graduates of this program pursue a variety of career opportunities, including: becoming university faculty in Curriculum & Instruction departments; assuming advanced leadership positions in schools, districts, and state governments; or working for curriculum development companies or in private consulting, among others. Within the Instruction and Administration Ed.D. program, students may specialize in an educational content area within Curriculum & Instruction, or they may study Curriculum & Instruction more broadly. Due to diverse professional outcomes and optional strands of specialization, coursework is planned by the major professor and advisory committee based on the student's background, needs, and professional goals.

Areas of specialization include:

- Instructional Systems Design (ISD)
- Literacy Education
- Social Studies Education

Admission Requirements

Applicants are evaluated holistically, with attention paid to prior educational achievement and professional experience. In addition to the admission requirements set by the Graduate School, departmental requirements include a statement of professional goals, an autobiographical sketch, professional writing samples, and three letters of professional reference. Interviews are frequently requested. All materials may be submitted through The Graduate School's online application process.

Degree Requirements

A listing of curriculum requirements for the degree program providing detail such as the following:

- Minimum of 42 credit hours beyond the master's degree
- All program plans require coursework in the following areas:
 - Curriculum and Instruction
 - Support work inside and/or outside the College of Education
 - Research methodology courses (minimum of 9 semester hours required)
- Students must successfully complete a qualifying examination consisting of both written and oral components and also present a dissertation which is the result of original research. Additionally, doctoral students are encouraged to enhance their doctoral preparation through teaching, research, and other service opportunities that are available through the department and the college.

- Doctoral students in Instruction and Administration may elect to complete graduate certificates as part of their coursework. Graduate certificates in a) Distance Education and b) Teaching in Culturally & Linguistically Diverse Classrooms are offered within the department. Students are also eligible for graduate certificates housed elsewhere, such as the certificate in Research Methods in Education, offered through Educational Policy and Evaluation.

<https://education.uky.edu/edc/graduate/edd/>

Graduate Certificate

College, Career, and Civic Life Teaching and Learning Certificate

The graduate certificate in College, Career, and Civic Life Teaching and Learning provides a coherent, integrated approach to helping graduate students, postdoctoral scholars, current faculty, and others develop and document the skills needed as part of conscientious preparation for the full range of faculty responsibilities at a range of institutions of higher education.

Next Generation Teaching and Learning Certificate

Next Generation Teaching and Learning incorporates 21st century skills (collaboration, communication, technology, critical thinking, problem solving and performances of learning), is a current direction in educational endeavors in a variety of learning environments from k-12 classrooms and

teacher professional development to museums and after-school programs. This certificate combines required next generation foundations and assessment components with specialty electives, representative of cutting-edge innovative pedagogy. The certificate comprises 12 hours of graduate coursework as follows: nine (9) credit hours of required course work comprised of three (3) hours of the next generation learning foundations course, three (3) hours of an internship choice, three (3) hours of a course on data-driven decision making and a final three (3) chosen from specialty course options. A key purpose of the certificate work is a demonstration of research to practice knowledge and skills, through implementation and assessment of next generation pedagogy in a field setting.

Teaching in Culturally and Linguistically Diverse Classrooms Certificate

The graduate certificate in Teaching in Culturally and Linguistically Diverse Classrooms addresses increasing demand to prepare teachers to better address the learning needs of K-12 classrooms with increasing cultural and linguistic diversity among students. Certificate coursework takes a comprehensive approach to supporting English Learners and other historically under-served populations by addressing aspects of cultural and linguistic diversity across the curriculum within a regular classroom context. Coursework supports students in developing a knowledge base, planning, and application of strategies related to language and literacy development, second-language acquisition, classroom relationships, family collaboration, assessment, instruction, discourse, and socio-political consciousness.

Master of Arts in Education

Education - Literacy, MAEDU

Completion of the Master of Arts in Education with Literacy specialization fulfills the academic requirements for teacher certification as a P-12 literacy specialist within the Commonwealth of Kentucky. In addition to certification as a literacy specialist, successful degree completion can lead to rank change (Rank I or Rank II) within Kentucky's classification of teachers. The Literacy Specialist Endorsement P-12 with Master of Arts in Education program offers a variety of graduate-level courses, field experiences in local schools, and research opportunities with faculty. The combination of these classroom and experiential activities result in graduates who are prepared for the literacy challenges they may face in educational and community contexts. The program is delivered in a variety of formats including via distance learning, hybrid, and face-to-face courses.

Admission Requirements

Applicants are evaluated holistically, with attention paid to prior educational achievement and professional experience. In addition to the admission requirements set by the Graduate School, departmental requirements include a statement of professional goals, an autobiographical sketch, professional writing samples, and three letters of professional reference. Interviews are frequently requested. Applicants wishing to obtain

teacher certification as a literacy specialist must already possess initial teacher certification. All materials may be submitted through The Graduate School's online application process.

Degree Requirements

The master's degree program requires 33 credit hours of coursework. Students may elect to complete a Plan A (thesis) or Plan B (non-thesis) option within the program. Curriculum plans for both Plan A and Plan B options may be found at this

link: <https://education.uky.edu/edc/wp-content/uploads/sites/2/2017/08/Literacy-Specialist-Curriculum-Contract-Nov-2-2015-protected.pdf>

Plan A (thesis) students must successfully defend a thesis for program completion. Plan B (non-thesis) students must successfully defend a professional portfolio to complete the program.

Students in the Literacy program may elect to add a graduate certificate, such as the departmental certificate in Teaching in Culturally & Linguistically Diverse Classrooms, along with their required coursework. This certificate may result in additional credit requirements.

<https://education.uky.edu/edc/literacy/ma/>

**Education -
Secondary
Education, MAEDU**

The Master of Arts in Secondary Education with Initial Certification (MIC) is an intensive one calendar-year program which leads to both a master's degree and initial teacher certification for secondary education in Kentucky. The MIC may be pursued in one of two subject areas: English Education or Social Studies Education. This program is designed for students with a completed bachelor's degree in a content field in one of the following areas: English, history, a social science, or in secondary education. Students not having a degree in one of the above areas may be required to complete additional course work.

Specializations available:

- English Education
- Social Studies Education

Admission Requirements

In addition to the admission requirements set by the Graduate School, students must be admitted to the University of Kentucky's Teacher Education Program. That process involves compliance with admission requirements of the Kentucky Education Professional Standards Board (EPSB). Students meet state initial certification requirements while completing degree requirements. These requirements include:

- Cumulative undergraduate GPA of 2.75 or greater
- GPA of 2.75 or greater in major, minor, and support courses
- Minimum GRE scores: 150 (verbal), 143 (quantitative), and 4.0 (analytical).

- If students do not meet one or more of these cutoff scores, they may take the equivalent portion of the PRAXIS Core Academic Skills Test instead of retaking the GRE. The minimum PRAXIS scores for admission to the MIC are 156 (Reading), 150 (Math), and 162 (Writing).
- Resume
- Personal statement
- Writing sample
- Three letters of recommendation
- Students may need to complete additional undergraduate coursework to meet degree and certification requirements. Consult the MIC Director for specific information regarding degree requirements and the dual application process.

Degree Requirements

The master's degree program requires 31 credit hours of coursework, which includes one semester of student teaching.

Specific course requirements for English Education may be found here: <https://education.uky.edu/edc-programs/secondary-english-mic/>

Specific course requirements for Social Studies Education may be found here: <https://education.uky.edu/edc/mic/social-studies/>

Information on the overall MIC program may be found here: <https://education.uky.edu/edc/mic/>

Master of Science in Education

Education - Instructional Systems Design, MSEDU

The Instructional Systems Design (ISD) area offers an online degree program designed for individuals who wish to develop their knowledge and skills in planning and designing instruction. Persons choosing this area are frequently preparing for instructional design responsibilities in business and industry, government, education, and various training organizations. This program does not require or lead to initial teacher certification.

- Plan A: 30 credit hours, with a thesis requirement
- Plan B: 36 credit hours, without a thesis requirement

Admission Requirements

Applicants are evaluated holistically, with attention paid to prior educational achievement and professional experience. In addition to the admission requirements set by the Graduate School, departmental requirements include a statement of professional goals, an autobiographical sketch, professional writing samples, and three letters of professional reference. Interviews are frequently requested. The GRE is not required for admission to the ISD program. All materials may be submitted through The Graduate School's online application process.

Degree Requirements

- Specific programs are planned with a faculty advisor subject to the approval of the Director of Graduate Studies. All students are required to complete:

- An 18-hour common core including nine semester hours in the Department of Curriculum and Instruction.

- At least 6 hours must be taken outside the College of Education.

- The Plan A (thesis) option includes 6 credit hours of electives and 6 credit hours of thesis credit.

- An additional 12 credit hours of electives are required for the Plan B (non-thesis) option.

- Plan A students must successfully defend a thesis; Plan B students must successfully complete a final exam.

- Students in Instructional Systems Design may elect to complete a graduate certificate, such as the departmental certificate in Distance Education, as part of their coursework.

<https://education.uky.edu/edc/isd/ms/>

Department of Educational

Leadership Studies

Doctor of Education

Educational Leadership, EDD

- The Doctor of Education (EdD) in Educational Leadership Studies prepares scholar-practitioners to assume leadership roles in diverse educational settings.
- The Doctor of Education (EdD) is an executive, cohort-based program with online courses, qualifying examinations, and dissertation defense.
- The degree consists of 42 minimum course credit hours and a minimum of 4 credits of dissertation residency (does not need to be completed in Kentucky).
- Mixed Methods Action Research (MMAR) design utilized for the dissertation.
- Applicants who plan to seek administrator certification (e.g., school principal, superintendent) can use up to two electives to partially fulfill requirements. However, they must meet all additional requirements imposed by the Kentucky Educational Professional Standards Board.

Admission Requirements

- Earned Masters, from a fully accredited institution, with a 3.5 GPA on a 4.0 scale.
- Transcripts from previous post-secondary institutions.
- Professional Resume
- Personal Statement
- Diversity, Equity & Inclusion Statement
- 3 Recommendations, with at least one academic from practicing scholar, one leadership based from practitioner.
- On-demand writing sample Completed graduate-level basic statistics course by August 15 of the semester of program start.

Degree Requirements

- 42 minimum credits of coursework, 4 minimum credits of dissertation residency. Minimum of 46 credits total.
- 16 courses (eleven 3-credit hour; three 1-credit hour required, two 3-credit hour electives) of pre-dissertation coursework typically earned over 8 semesters including summer.

- Qualifying examination utilizing the MMAR framework.
- Student must remain enrolled in EDL 767 Dissertation Residency Credit from the semester they sit for their Qualifying Examination through the semester they defend their dissertation.
- Final dissertation defense.

Graduate Certificate

Executive Educational Leadership Certificate

The Graduate Certificate in Executive Educational Leadership is designed for school system leaders. The courses (EDL 676, EDL 677, EDL 678, EDL 682) correspond to the Kentucky Superintendent Licensure program and thus are a good fit for district-level leaders. In particular, this program is useful for private school and international school system leaders such as the role of Headmaster.

Instructional Coaching Certificate

The graduate certificate in Instructional Coaching prepares veteran educators to lead job-embedded professional development efforts in P-12

schools. The two required courses (ELS Leadership in Communities of Practice, EDL 638 Instructional Coaching and Mentoring) and an elective course (ELS 600 Leadership in Learning-Centered Schools, EDL 669 Leadership for Creative Problem Solving, or ELS 624 Leadership Practicum) provide leadership development focused on facilitating teacher teams, coaching novice and veteran teachers, solving problems creatively, and supporting adoption of innovation and renewal initiatives. This certificate is one of four offered by the Department of Educational Leadership Studies.

Leadership for Deeper Learning Certificate

The graduate certificate in Leadership for Deeper Learning examines the systemic changes to teaching and learning within schools. The courses within the certificate (EDL 662 Leading for Next Generation Learning, EDL 664 Assessment Leadership, ELS 620 Leading Action Research and Inquiry 1) focus on inquiry learning, project-based learning, performance assessments, competency learning models, and a variety of other components of systems of teaching and learning that provide deeper, more equitable learning opportunities for students in educational organizations. This certificate is one of four offered by the Department of Educational Leadership Studies.

School Technology Leadership Certificate

The graduate certificate in School Technology Leadership is conceptually framed around the international society for technology in Education's National Educational Technology Standards for Administrators (NETS-A). Students who engage in this graduate certificate will typically be educational administrators at all levels who want to learn how to support technology-suffused education and lead digital-age schools. This certification is focused on creating skills and dispositions for individuals committed to making systemic and lasting changes in schools, districts, states, and nations.

Master of Education

Educational Leadership, MED

- The Masters of Educational Leadership (MEd) is a flexible, online degree program designed for educators to advance their careers in leadership of learning systems. The degree consists of 30 credit hours of leadership courses amongst 3 tracks. The courses throughout the program are available online and available to educators both in Kentucky and throughout the world. Kentucky students in the Masters of Educational Leadership may achieve either Rank II or Rank I designations

through the Education Professional Standards Board.

- Completion of the Teacher Leadership track leads to a letter of eligibility for the Teacher Leader Endorsement from the Education Professional Standards Board.
- Completion of the Principal track leads to a letter of eligibility for the Advanced Educational Leadership Certification from the Educational Professional Standards Board.
- A general educational leadership track (non-licensure) is also available for students outside Kentucky and those choosing a non-licensure option.

Admission Requirement S

- Earned Bachelors, preferably education-based, from a fully accredited institution with a 3.0 GPA on a 4.0 scale.
- Transcripts from previous post-secondary institutions
- Professional Resume
- Personal Statement
- Writing Sample
- (If pursuing licensure) A copy of a valid K-12 teaching certificate.

- (If pursuing licensure)
Minimum required years of teaching experience
- (If Principal track) 2 Recommendations, including one from a district-level administrator

Degree Requirement S

- 30 Credits, 10 courses, typically earned over 5 semesters including summer.
- Teacher Leader track: 15 credits, 5 Course, Core + 15 credit, 5 course electives.
- Principal track: 24 credits, 8 course, Core + 6 credit electives.
- Portfolio-based capstone final defense

Specialist in Education

Educational Leadership, EDS

- The Specialist in Education (EdS) is a flexible, online degree program designed for educators to advance their careers in leadership of learning systems. The degree consists of 30 credit hours of leadership courses amongst 3 tracks. The courses throughout the program are available online and available to educators both in

Kentucky and throughout the world. Kentucky students in the EdS program may achieve either Rank II or Rank I designations through the Education Professional Standards Board.

- Completion of the Teacher Leadership track leads to a letter of eligibility for the Teacher Leader Endorsement from the Education Professional Standards Board.

- Completion of the Principal track leads to a letter of eligibility for the Advanced Educational Leadership Certification from the Educational Professional Standards Board.

- A general educational leadership track (non-licensure) is also available for students outside Kentucky and those choosing a non-licensure option.

Admission Requirements

- Earned Masters, preferably education-based, from a fully accredited institution with a 3.0 GPA on a 4.0 scale.

- Transcripts from previous post-secondary institutions

- Professional Resume

- Personal Statement

- Writing Sample

- (If pursuing licensure) A copy of a valid K-12 teaching certificate

- (If pursuing licensure) Minimum required years of teaching experience

- (If Principal track) 2 Recommendations, including one from a district-level administrator

Degree Requirement S

- 30 Credits, 10 courses, typically earned over 5 semesters including summer.

- Teacher Leader track: 15 credits, 5 Course, Core + 15 credit, 5 course electives.

- Principal track: 24 credits, 8 course, Core + 6 credit electives.

- Portfolio-based capstone final defense

Department of Educational Policy Studies and Evaluation

Doctor of Education

Educational Policy Studies, Measurement,

and Evaluation, EDD

The Ed.D. program in Educational Policy Studies, Measurement, and Evaluation (EPME) provides advanced study for those who seek careers in the administration or evaluation of educational programs in schools, colleges, or other institutional settings. Ed.D. candidates may pursue a variety of research interests including but not limited to institutional research and assessment, educational measurement and evaluation, P-12 educational policy issues, post-secondary education, comparative education, and community/continuing education issues.

Admission Requirement

S

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A statement of purpose describing the student's intellectual and professional goals for completing the program. Applicants are advised to clearly indicate the areas of coursework and research they wish to pursue.
- Four letters of reference with at least two from referees

familiar with the students'
academic work

- Resume or Curriculum Vitae
- Writing
sample demonstrating academic writing (e.g., chapter of masters thesis, course paper, scholarly essay)
- Rolling Admission, Apply Anytime.

Degree Requirement S

- 43 Credit hours or equivalent preparation meeting UK requirements for residency prior to a qualifying exam for doctoral candidacy and a dissertation.
- All EPE students are required to take EPE 601 Proseminar (1 credit hour) during their first semester of study in the department.
- All EPME doctoral students build a program of study consisting of a minimum of 15 hours in a core area of concentration, at least 9 hours of research, and the rest of their hours in supporting coursework chosen in consultation with their advisory committee. Students are encouraged to take multiple courses in contextual studies in education and to take supporting coursework both inside and outside the College of Education.
- A student's program of study may vary from this structure with

approval from their program committee.

- The EdD qualifying exam consists of two parts. 1) A literature review building a rationale for a compelling problem of practice must be accepted by the advisory committee followed by 2) the defense of a full research proposal investigating that problem of practice. The defense of proposal represents the official qualifying exam.
- The EdD dissertation requirements are the same as those for the PhD. EdD candidates are encouraged to consider multiple stakeholders and to contextualize their study in a new or emerging problem of practice.

Education.uky.edu/EPE

Doctor of Philosophy

Studies in Higher Education, PhD

The PhD Program Studies in Higher Education requires research on some aspect of higher education, broadly defined. Students may select an area of concentration from the history and philosophy of higher education, the socio-cultural study of higher education, legal and organizational study of higher education, or research, measurement, and evaluation in higher education. Ph.D. dissertations are expected to

advance knowledge in the field and/or further develop existing theory.

In addition to the above areas of concentration, the Studies in Higher Education PhD also has two optional Specializations:

- A PhD Studies in Higher Education specialization in Institutional Research (SHED-IR) prepares students to identify information needs; collect, analyze, interpret, and report data and information for planning and evaluation; and assist organizations in utilizing these data and information to make informed decisions.

- A PhD Studies in Higher Education specialization in Diversity, Equity, & Inclusion (SHED-DEI) prepares students for high-level administrative positions in diversity, equity, and inclusiveness leadership in higher education settings. This specialization includes completion of a nine-credit Graduate Certificate in Senior Diversity Officer Leadership.

Admission Requirement S

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,

- A master's degree or equivalent level of coursework
- A statement of purpose describing the student's intellectual and professional goals for completing the program. Applicants are advised to clearly indicate the areas of coursework and research they wish to pursue.
- For those wishing to specialize in Institutional Research or Diversity, Equity, & Inclusion, an additional application essay is required.
- Four letters of reference with at least two from referees familiar with the students' academic work
- Resume or Curriculum Vitae
- Writing sample demonstrating academic writing (e.g. chapter of master's thesis, course paper, scholarly essay)
- Application Deadlines October 1st and February 1st

Degree Requirement s

- 43 Credit hours
- All EPE students are required to take EPE 601 PROSEMINAR (1 credit hour) during their first semester of study in the department.
- All PhD Students are required to complete 12 hours of research coursework chosen in consultation with their advisor

- All SHED doctoral students build a program of study consisting of the above 12 hours of research coursework, 18 hours of coursework in their concentration, and 12 hours of contextual study. All courses are chosen in consultation with their advisory committee. This individualized program provides both content and conceptual strength to identify compelling research questions in the field of higher education writ large. A specialization is not required.

- The SHED-Institutional Research Specialization includes EPE 560 ASSESSMENT AND SCHOOL DATA ANALYSIS, EPE 619 SURVEY RESEARCH METHODS IN EDUCATION (SUBTITLE REQUIRED), EPE 620 TOPICS AND METHODS OF EVALUATION, EPE 663 FIELD STUDIES IN EDUCATIONAL INSTITUTIONS or EPE 797 HISTORICAL RESEARCH ON EDUCATION, and an internship (EPE 790). These courses can be taken as part of the research requirement or concentration and will be complemented by the student's choice of electives.

- The SHED-Diversity Equity & Inclusion Specialization includes EPE 751 STRATEGY, STRUCTURE, & CHANGE MANAGEMENT FOR SENIOR DIVERSITY LEADERSHIP, EPE 752 POLICY & PROFESSIONAL PRACTICE FOR SENIOR DIVERSITY LEADERSHIP, and a choice of EDL 701, EDL 702, or EDL 703 courses on organizational change and leadership. These courses make up nine of the 18 hours of concentration.

- A student's program of study may vary from this structure with approval from their program committee.

Education.uky.edu/EPE

Graduate Certificate

International Education Certificate

The graduate certificate in International Education will prepare graduate students for careers in international education, including but not limited to education abroad, international student services, and placement in other international organizations which support the exchange of students. The field of international education is a critical component of the internationalization of higher education in the united states and abroad. This certificate is designed for any graduate student (or admitted postbaccalaureate student) wishing to enhance their graduate degree. The proposed curriculum includes a combination of nine hours of core courses and six hours of elective coursework. In preparing to complete their certificate, students must identify a regional concentration, and are encouraged to participate in some form of professional or experiential learning opportunity to acquire skills in management, program development, and/or

assessment. Although the certificate does not require language coursework as part of the curriculum, participants are also required to describe their language proficiency relative to their professional and regional concentration so that they are aware of and prepared to be competitive in the field.

Research Methods in Education Certificate

The RMinE Graduate Certificate provides students with the ability to specialize in education research methods that can be applied to a host of disciplines, e.g., social sciences, physical sciences, K-12 instruction/administration, and business. The certificate combines 12 hours of core courses and 3 hours of elective coursework for a total of 15 hours. Students will receive a foundation in a range of approaches to research, including quantitative methods, assessment, evaluation, and measurement, which can be applied at the introductory level to their specific fields. The program is open to all University of Kentucky students admitted to the Graduate School who want to demonstrate they have completed rigorous coursework in research methods.

Master of Science

Research Methods In Education, MS

The Master of Science in Research Methods in Education (RMinE) prepares students for careers in settings such as academic institutions, testing organizations, school districts, and state and federal agencies. It is designed to provide a foundation in basic research methods within a problem-of-practice framework while allowing students a focused area of emphasis on Quantitative Methods, Evaluation, or Research Design. RMinE students have the option to complete the entirety of their coursework online.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A 250-word statement of purpose describing the student's intellectual and professional goals for completing the program
- Two letters of reference with at least one from a referee familiar with the students' academic work

- Resume or Curriculum Vitae
- Applications are reviewed on a rolling basis; apply anytime.

Degree Requirement s

- The program requires 37 hours of coursework, all of which is available online.
- All EPE students are required to take EPE601 Proseminar (1 credit hour) during their first semester of study in the department.
- Core Classes (18 credit hours) include:
 - EPE 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA /EPE 558 GATHERING, ANALYZING & USING EDUCATIONAL DATA II
 - EPE 571 WRITING SEMINAR IN EDUCATIONAL RESEARCH
 - EPE 619 SURVEY RESEARCH METHODS IN EDUCATION (SUBTITLE REQUIRED)
 - EPE 620 TOPICS AND METHODS OF EVALUATION
 - EPE 663 FIELD STUDIES IN EDUCATIONAL INSTITUTIONS or EPE 797 HISTORICAL RESEARCH ON EDUCATION
 - 3 credit hour Contextual Studies Course
 - Choice of Concentration (6 credit hours)
 - Quantitative Methods (EPE 558 GATHERING, ANALYZING & USING EDUCATIONAL DATA II and EPE 660 RESEARCH

DESIGN AND ANALYSIS IN EDUCATION)

- Evaluation (EPE 522 PSYCHOLOGICAL AND EDUCATIONAL TESTS AND MEASUREMENTS and EPE 621 ADVANCED TOPICS AND METHODS OF EVALUATION)
- Research Design (EDP 656 METHODOLOGY OF EDUCATIONAL RESEARCH and EPE 797 HISTORICAL RESEARCH ON EDUCATION)
- Guided Electives (12 credit hours chosen in consultation with the student's advisor)
- A student's program of study may vary from this structure if they receive approval from their major advisor
- Masters Exam: At the end of the program, RMinE students are expected to be able to implement an evaluation, create and test an assessment, or design and conduct an advanced quantitative research study. RMinE students are required to write and be examined on a scholarly paper in order to graduate from the program.

Master of Science in Education

Educational Policy Studies, MSEDU

The M.S. in Educational Policy Studies is designed for students who are interested in examining education policy through contextual and analytical lenses. These perspectives include: historical and philosophical, cultural and comparative, or social and

political. This degree also provides students with a core suite of policy analysis tools, including courses in quantitative and qualitative research methods. Students in this program will be prepared for a variety of professional and academic placements, including policy analysis, K-16 professional advancement, or further doctoral study.

Admission Requirements

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A 250 word statement of purpose describing the student's intellectual and professional goals for completing the program
- Two letters of reference with at least one from a referee familiar with the students' academic work
- Resume or Curriculum Vitae

Applications are reviewed on a rolling basis; apply anytime.

Degree Requirement S

- The program requires 31 hours of coursework culminating in an individualized master's exam during the final semester.
- All EPE students are required to take EPE601 Proseminar (1 credit hour) during their first semester of study in the department.
- Core Classes include EPE 602 Social Policy Issues or 661 Sociology of Education, EPE640 Philosophy of Education, and EPE555 Comparative Education or EPE665 Education and Culture
- Choice of Concentration (9 credit hours chosen in consultation with the student's advisor)
 - Historical & Philosophical (e.g., EPE 628, EPE 651, EPE 652, EPE 653)
 - Cultural & Comparative (e.g., EPE 554, EPE 555, EPE 667)
 - Social & Political (e.g., EPE 525, EPE 603, EPE 661, EPE 670, EPE 675)
 - Research Methods & Statistics: (minimum 9 credit hours)
 - One Research Methods/Evaluation Course (e.g., EPE 620, EPE 663, EPE 797)
 - One Statistics Course (e.g., EPE 557, EPE 558, EPE 660)
 - One Additional Course (e.g., any of above or EPE 522, EPE 619, EPE 621, EPE 763)
 - Elective Course (3 credit hours of any elective chosen in consultation with advisor)
- A student's program of study may vary from this structure if

they receive approval from their major advisor.

- Students may include an EPE graduate certificate in Research Methods or Comparative & International Education as part of their MS EPS program.

Education.uky.edu/EPE

Higher Education, MSEDU

The Master of Science in Higher Education (HIED) is a degree program with recommended pathways in Higher Education Policy and Student Affairs. The program serves those contemplating careers in higher education or already working in a college or university, as well as those interested in pursuing the study of higher education at the doctoral level.

Admission Requirement S

- UK Graduate School Application
- Official transcripts for all previous coursework completed at any institution of higher education,
- A 250 word statement of purpose describing the student's intellectual and professional goals for completing the program

- Two letters of reference with at least one from a referee familiar with the students' academic work
- Resume or Curriculum Vitae
- Deadlines for Applications are October 1st and February 1st.

Degree Requirement s

- The program requires 31 hours of coursework culminating in a common written master's exam during the final semester.
- All EPE students are required to take EPE601 Proseminar (1 credit hour) during their first semester of study in the department.
- Core Classes recommended of all MS HIED students
 - EPE 612 INTRODUCTION TO HIGHER EDUCATION
 - EPE 653 HISTORY OF HIGHER EDUCATION
 - EPE 676 ORGANIZATION AND ADMINISTRATION OF HIGHER EDUCATION
 - MS HIED students then design a focus following suggested pathways in Higher Education Policy or Student Affairs.
- The MS in HIED program plan also requires one 3 credit hour research course selected in consultation with their advisor.
- Internships are recommended, but not required. Internship experiences are designed by the

student and their advisor to meet individual professional and/or scholarly goals.

- Electives can be chosen from EPE courses as well as courses outside of EPE and the College of Education with permission of the student's advisor.
- Students may include an EPE graduate certificate in Research Methods or Comparative & International Education as part of their MS HIED program.

<https://education.uky.edu/epe/>

Department of Educational, School and Counseling Psychology

**Doctor of
Philosophy**

**Education and
Counseling
Psychology -
Counseling
Psychology, PhD**

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.),

and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology.

Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

The Ph.D. program is offered in the specialty areas of counseling psychology, educational psychology, and school psychology under one

departmental program. The Doctor of Philosophy programs in Counseling Psychology and in School Psychology are accredited by the American Psychological Association through its Office of Program Consultation and Accreditation (750 First Street, NE, Washington, DC 20002-4242, phone: 202.336.5500). A full-time, supervised one-year internship is required for both areas. Various concentrations are possible within the Ph.D. program. Representative of these are as follows: (a) learning, cognition, and curriculum design; (b) human development and social processes; (c) counseling psychology; (d) measurement, evaluation, and research design; and (e) school psychology.

Admission Requirements

Applicants to the Ph.D. Degree program in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the Ph.D. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students with prior graduate work at the masters or specialist degree will also be considered for admission to advanced

graduate status and, in the case of counseling psychology, are preferred. Students are selected for this program based on their undergraduate and prior graduate grade point average, Graduate Record Examination scores, letters of recommendation, personal statements describing their selection of a career in their chosen areas, writing samples, and personal interviews. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

Requirements to be added.

Education and Counseling Psychology - Educational Psychology, PhD

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy

(Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology.

Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

The Ph.D. program is offered in the specialty areas of counseling psychology, educational psychology, and school psychology under one departmental program. The

Doctor of Philosophy programs in Counseling Psychology and in School Psychology are accredited by the American Psychological Association through its Office of Program Consultation and Accreditation (750 First Street, NE, Washington, DC 20002-4242, phone: 202.336.5500). A full-time, supervised one-year internship is required for both areas. Various concentrations are possible within the Ph.D. program. Representative of these are as follows: (a) learning, cognition, and curriculum design; (b) human development and social processes; (c) counseling psychology; (d) measurement, evaluation, and research design; and (e) school psychology.

Admission Requirements

Applicants to the Ph.D. Degree program in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the Ph.D. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students with prior graduate work at the masters or specialist degree will also be considered for admission to advanced graduate status and, in the case

of counseling psychology, are preferred. Students are selected for this program based on their undergraduate and prior graduate grade point average, Graduate Record Examination scores, letters of recommendation, personal statements describing their selection of a career in their chosen areas, writing samples, and personal interviews. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirement s

Year 1: Partial completion of required coursework-18-21 hours of formal coursework, including

- first-year doctoral seminar (3 hours)
- introduction to educational psychology class (3 hours)
- human lifespan development class (3 hours)
- one development and/or learning theories class (3 hours)
- two to three research methods classes (6-9 hours)

Selection of EDP members of Advisory Committee. Meeting with Advisory Committee to discuss program goals and objectives. Reflection and discussion with advisor

regarding the independent study writing topic and research portfolio. Attendance at professional meetings and departmental colloquia.

Year 2: Continued progress on completion of required coursework-21 hours of formal coursework, including

- multicultural psychology (3 hours)
- one development and/or learning theories class (3 hours)
- two classes in area of specialization (6 hours)
- two research methods classes (6 hours)
- independent study writing project with major professor (3 hours)

Selection of full Advisory Committee (by fall of Year 2). Fulfillment of teaching requirement (including corresponding enrollment in EDP 782). Progress toward completion of research portfolio. Reflection and discussion with Advisory Committee regarding the proposed internship. Internship proposed to Committee. Presentation at professional meetings and departmental colloquia.

Year 3: Completion of required coursework-18-21 hours of formal coursework, including

- two to three research methods classes (6-9 hours)
- one development or learning theories class (3 hours)
- one class in area of specialization (3 hours)
- internship in educational psychology (3-6 hours)

Completion of research portfolio and internship. Successful completion and oral defense of qualifying examination. Presentation at professional

meetings and departmental colloquia. Progress on converting the empirical research study from research portfolio into a publishable manuscript.

Year 4: No formal coursework, with the exception of continued enrollment in EDP 767, Dissertation Residency Requirement. Submission of empirical study to refereed journal. Completion and defense of Dissertation Proposal. Permission obtained from Institutional Review Board to conduct research. Substantial progress on Dissertation data collection. Presentation at professional meetings and departmental colloquia.

Year 5: No formal coursework, with the exception of continued enrollment in EDP 767, Dissertation Residency Requirement. Completion and defense of Dissertation. Submission of dissertation for publication in refereed journal(s).

Educational, School, and Counseling Psychology - School Psychology, PhD

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for

admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology.

Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

The Ph.D. program is offered in the specialty areas of counseling psychology, educational psychology, and school psychology under one departmental program. The Doctor of Philosophy programs

in Counseling Psychology and in School Psychology are accredited by the American Psychological Association through its Office of Program Consultation and Accreditation (750 First Street, NE, Washington, DC 20002-4242, phone: 202.336.5500). A full-time, supervised one-year internship is required for both areas. Various concentrations are possible within the Ph.D. program. Representative of these are as follows: (a) learning, cognition, and curriculum design; (b) human development and social processes; (c) counseling psychology; (d) measurement, evaluation, and research design; and (e) school psychology.

Admission Requirements

Applicants to the Ph.D. Degree program in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the Ph.D. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students with prior graduate work at the masters or specialist degree will also be considered for admission to advanced

graduate status and, in the case of counseling psychology, are preferred. Students are selected for this program based on their undergraduate and prior graduate grade point average, Graduate Record Examination scores, letters of recommendation, personal statements describing their selection of a career in their chosen areas, writing samples, and personal interviews. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirement s

Area A: Psychological Foundations (24 semester hours):

Biological Aspects of Behavior (3 hrs.)

- PGY 627 PROSEMINAR IN PHYSIOLOGICAL PSYCHOLOGY / PSY 627 PROSEMINAR IN PHYSIOLOGICAL PSYCHOLOGY
Human Learning, Cognitive & Affective Aspects of Behavior (9 hrs.)
- EDP 600 LIFE SPAN HUMAN DEVELOPMENT AND BEHAVIOR

- EDP 603 HUMAN COGNITIVE DEVELOPMENT
- EDP 614 MOTIVATION AND LEARNING

Social Aspects of Behavior (3 hrs.)

- EDP 513 SOCIAL ASPECTS BEHAVIOR

Individual Differences (6 hrs.)

- EDP 669 DIAGNOSTIC CLASSIFICATION IN SCHOOL PSYCHOLOGY
- EDP 616 MULTICULTURAL PSYCHOLOGY or PSY 779 TOPICAL SEMINAR IN SOCIAL PSYCHOLOGY

History & Systems of Psychology (3 hrs.)

- EDP 533 HISTORY AND SYSTEMS OF PSYCHOLOGY

Area B: Scientific Foundations
(15 semester hours):

- EDP 558 GATHERING, ANALYZING & USING EDUCATIONAL DATA
- EDP 656 METHODOLOGY OF EDUCATIONAL RESEARCH
- EDP 660 RESEARCH DESIGN AND ANALYSIS IN EDUCATION
- EDP 679 INTRODUCTION TO MEASUREMENT THEORY AND TECHNIQUES
- Approved Elective (EPE 620 ; EPE 621 ; EDS 633 ; EDP 711 ; EPE 763)

Area C: Professional Practice Foundations (43 Credit Hours):

Professional Identity (16 hrs.)

- EDP 570 INTRODUCTION TO PSYCHOLOGICAL SERVICES IN SCHOOLS

- EDP 658 PROBLEMS IN EDUCATIONAL PSYCHOLOGY (4 hrs.)
- EDP 622 SUPERVISION IN SCHOOL PSYCHOLOGY I: THEORETICAL MODELS OF PRACTICE / EDP 623 SUPERVISION IN SCHOOL PSYCHOLOGY II: APPLICATION FOR PRACTICE (3rd or 4th year seminar: 6 credit hours)
- EDP 770 LEGAL & ETHICAL ISSUES IN PROFESSIONAL PSYCHOLOGY
Diagnosis & Assessment (9 hrs.)

- EDP 640 INDIVIDUAL ASSESSMENT OF COGNITIVE FUNCTIONING
- EDP 642 INDIVIDUAL ASSESSMENT OF PERSONALITY FUNCTIONING
- EDP 776 SEMINAR IN SCHOOL PSYCHOLOGY (SUBTITLE REQUIRED)
Intervention (18 hrs.)

- EDP 670 PSYCHOEDUCATIONAL STRATEGIES OF INTERVENTION
- EDP 671 SEMINAR IN PSYCHOEDUCATIONAL CONSULTATION IN SCHOOLS
- EDP 704 SOCIAL JUSTICE CONSULTATION AND EVALUATION
- EDP 605 INTRODUCTION TO COUNSELING: TECHNIQUES I
- EDS 601 CONCEPTS AND PRINCIPLES OF APPLIED BEHAVIOR ANALYSIS
- EDP 680 PARENT AND CHILD COUNSELING

Area D: Educational Foundations (9 semester hours):

- EDC 619 ASSESSMENT OF READING GROWTH AND DEVELOPMENT
- EDC 732 CURRICULUM DESIGN FOR LEARNING AND LEADING
- EDS 611 CONTEMPORARY TRENDS AND ISSUES IN THE EDUCATION OF STUDENTS WITH MILD DISABILITIES.
- EDC 550 EDUCATION IN A CULTURALLY DIVERSE SOCIETY
- EPE 665 EDUCATION AND CULTURE
- EDS 522 CHILDREN AND FAMILIES
- EDS 600 SURVEY OF SPECIAL EDUCATION
- EDS 603 BEHAVIORAL CONSULTATION AND SUPERVISION
- EDS 595 SCHOOL LEVEL SERVICES AND FAMILY-SCHOOL COLLABORATION

Area E: Supervised Experience (18 hours):

Supervised Experience Component

- EDP 674 SCHOOL-BASED PRACTICUM IN SCHOOL PSYCHOLOGY (6 hrs.)
- EDP 675 PRACTICUM IN SCHOOL PSYCHOLOGY (6 hrs.)
- EDP 708 INTERNSHIP IN EDUCATIONAL, SCHOOL, AND COUNSELING PSYCHOLOGY (6 hrs.)

Master of Science in Education

Education and Counseling Psychology -

Counseling Psychology, MSEDU

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology.

Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the

departmental
website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

The Master of Science in Education degree is offered by the Department for individuals who will not meet state licensure (Licensed Psychological Associate [LPA] or Licensed Professional Counselor [LPC]) requirements in counseling or school psychology immediately upon completion. Individuals who are interested in specializing in educational psychology, human development, measurement, or research in education may obtain this degree.

Admission Requirement

S

Applicants to the M.S. Ed. Degree program leading to certification in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the M.S. Ed. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate movement through the program. Students are selected for these programs based on their

undergraduate grade point average, Graduate Record Examination scores, letters of recommendation, a personal statement describing their selection of a career in school or counseling psychology, a writing sample, and, in the case of school psychology, a personal interview. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

The educational psychology program, planned in consultation with an advisor, is flexible and tailored to individual needs. It consists of 36 hours of course work (including a 3-hour paper) or 30 hours of course work plus a 6-hour thesis. The work completed for this degree with an emphasis in either counseling or school psychology is applicable toward licensure in either counseling or school psychology, respectively, but does not fulfill state certification requirements. In these areas no realistic thesis option is available. The counseling program prerequisites include psychological testing and abnormal psychology.

Educational and Counseling Psychology, MSEDU

The Department of Educational, School, and Counseling Psychology offers programs leading to the following degrees: Master of Science in Education (Plans A and B available), the Specialist in Education (Ed.S.), and the Doctor of Philosophy (Ph.D.). Students must apply for admission to both the Graduate School and to the Department. Doctoral applications must be completed by December 1 for summer/fall admission. All other degree applications have a deadline of January 15.

Within the degree programs offered, three specializations are possible: counseling psychology, educational psychology, and school psychology. Specializations are designed to provide students with both a background in behavioral and humanistic components of human learning and behavior, and the competencies to practice the skills designated for these programs. Admission to candidacy in any of these programs includes not only demonstrated skills in the academic area, but a judgment by the faculty of the program that the candidate demonstrates the personal and social characteristics, as well as the professional commitment and ethical standards requisite, for providing the services and demonstrating the skills associated with the program and the advanced degree.

For further information on specific program guidelines first garner information through the departmental website, <http://education.uky.edu/EDP/> and if clarification is needed, contact the Director of Graduate Studies in the Department of Educational, School, and Counseling Psychology.

The Master of Science in Education degree is offered by the Department for individuals who will not meet state licensure (Licensed Psychological Associate [LPA] or Licensed Professional Counselor [LPC]) requirements in counseling or school psychology immediately upon completion. Individuals who are interested in specializing in educational psychology, human development, measurement, or research in education may obtain this degree.

Admission Requirements

Applicants to the M.S. Ed. Degree program leading to certification in school psychology must possess an undergraduate degree in psychology, education, or a closely allied field (e.g., rehabilitation counseling or pediatric nursing). Applicants to the M.S. Ed. Degree program leading to counseling psychology licensure may apply with any undergraduate degree, but an undergraduate degree in psychology, education, or a closely allied field will facilitate

movement through the program. Students are selected for these programs based on their undergraduate grade point average, Graduate Record Examination scores, letters of recommendation, a personal statement describing their selection of a career in school or counseling psychology, a writing sample, and, in the case of school psychology, a personal interview. These data provide information regarding student diversity, interests, and prior academic accomplishments in relation to program goals. The program faculty uses the Graduate School minimum requirements for undergraduate grade point average for admissions eligibility.

Degree Requirements

The educational psychology program, planned in consultation with an advisor, is flexible and tailored to individual needs. It consists of 36 hours of course work (including a 3-hour paper) or 30 hours of course work plus a 6-hour thesis. The work completed for this degree with an emphasis in either counseling or school psychology is applicable toward licensure in either counseling or school psychology, respectively, but does not fulfill state certification requirements. In these areas no realistic thesis option is available. The counseling program prerequisites include psychological testing and abnormal psychology.

Department of Kinesiology - Health Promotion

Doctor of Education

Kinesiology and Health Promotion, EDD

The Ed.D. program in Kinesiology and Health Promotion is a high-quality graduate program which aims to respond to the needs of individuals looking to advance their careers. The Ed.D. specialty areas serve professionals from various fields through interdisciplinary and practical experiences, particularly those who desire advanced study to enhance professional knowledge and skills in educational, leadership, industrial, or other appropriate settings. Our program allows students to explore specific career options and engage in experiential learning within a small classroom environment which fosters personal and individual attention. Our goal is to enable all graduate students to become successful in their academic and professional career. The Department of Kinesiology and Health Promotion offers two different specializations (Health Promotion and Physical Education) to further interest in a specific area and/or career.

Learn more about each specialization below.

Admission Requirement S

- A master's degree or 30 semester hours of approved graduate course work with a 3.0 GPA.
- GRE: Not required
- CV
- Personal Statement: Statement of your professional aspirations and explain how you believe graduate study at the University of Kentucky will enhance your ability to achieve those professional goals. In your statement, provide information about your background, research skills and experiences, personal and professional achievements, and educational, work or life experiences that influenced you and your life goals.
- Writing Sample: Students who have not written a Master's level thesis will be required to submit an example of their research writing. A literature review or project from a completed class are acceptable examples for submission for application. Special circumstances will be considered at the discretion of the applicant's designated potential advisor.
- Four letters of recommendation: At least two must be from a person with direct knowledge of applicant's

academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

Degree Requirement S

HEALTH PROMOTION SPECIALIZATION

The Ed.D. degree with a specialization in Health Promotion prepares students for a career in teaching/mentoring, consulting, policy development, or other leadership roles focused on individual and population health, evidence-based programming, and application of health behavior theory across diverse populations. With the skills and interdisciplinary knowledge students develop through coursework, independent research, community-engaged work, opportunities for teaching and/or professional service, as well as relationships with faculty mentors, they are prepared to lead in a variety of settings including universities, health promotion agencies at every level, healthcare systems and service organizations, and private industry.

The Ed.D. program utilizes a mentor-based admission process. Therefore, students are strongly encouraged to identify a faculty member with whom they wish to work prior to applying to the program.

[Degree Requirements](#)

Our Ed.D. degree with specialization in Health Promotion requires students to complete a minimum of 42 hours of course work. The doctoral degree requires students to complete a core of 9-12 hours of health promotion courses, 9 hours of research/statistics/design courses plus supporting electives for a total of at least 42 hours. Students, with the approval of their advisory committee, select elective course work that will enhance their health promotion knowledge and skills as well as their research skills. Additional information, including possible pre-requisites and electives, can be found on the departmental website: <https://education.uky.edu/khp/grad/>

PHYSICAL EDUCATION SPECIALIZATION

The Physical Education Ed.D. program has a required core of classes and sample of electives with an emphasis in specific areas such as physical education, physical activity promotion, epidemiology, sociology, behavioral science, and public health. The goal is to prepare students to teach courses on physical education methods, physical education curriculum, and physical activity promotion at the undergraduate and graduate level, remain up-to-date on the latest research, network with physical education teacher educators (PETE) from across the country and around the world, and exhibit professional work ethic and behaviors as a PETE student/faculty member.

[Degree Requirements](#)

The Ed.D. program has a required core of classes and sample of electives. The student may have an emphasis in specific areas of education. Additional information, including possible pre-requisites and electives, can be found on the departmental website: <https://education.uky.edu/khp/grad>

Doctor of Philosophy

Exercise Science, PhD

The Ph.D. program offers areas of concentration in Biomechanics or Exercise Physiology. The goal of the program is to provide education to qualified students so that they will have a broad understanding of exercise science, as well as an in-depth knowledge of one specific area or discipline. Graduates of this program will be able to conduct exercise science and/or biomechanics research, teach at the university level, direct discipline specific educational programs, and collaborate with other professionals on various issues related to exercise science/biomechanics. For more information on each concentration area, please visit the departmental website: <https://education.uky.edu/khp/grad/>

Objectives of the program:

- Provide a multidisciplinary doctoral program in exercise science with coordinated and expanded course

offerings to meet the varied needs and interests of students wishing to pursue a research and/or academic career in the exercise science areas of exercise physiology, biomechanics, and motor control. • develop scientific expertise and knowledge of resources which will enable students to conduct independent research in their given area of expertise.

- Foster cooperative interdisciplinary research.

- Provide opportunities for critical interdisciplinary evaluation of current research trends.

- Participate in guided research projects of sufficiently complex scope and design to prepare students for conducting their own research.

- Prepare leaders to educate others in the area of exercise science

Admission Requirement

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- CV

- Personal Statement: Submit a statement of your professional aspirations and explain how you

believe graduate study at the University of Kentucky will enhance your ability to achieve those professional goals. In your statement, provide information about your background, research skills and experiences, personal and professional achievements, and educational, work or life experiences that influenced you and your life goals.

- Writing Sample: Students who have not written a Master's level thesis will be required to submit an example of their research writing. A literature review or project from a completed class are acceptable examples for submission for application. Special circumstances will be considered at the discretion of the applicant's designated potential advisor.

- A Master's degree or graduate level professional (e.g. M.D.) degree from a fully accredited institution of higher learning.

- The Graduate School of the University of Kentucky requires an overall grade point of 3.0 on all prior graduate work and a 2.75 from undergraduate work.

- For the Graduate School, the minimum acceptable TOEFL score is 550 (paper-based) 213 (computer-based), or 79 (internet-based). The minimum IELTS score is 6.5; Submitted scores must be no more than two years old.

- GRE: Not required.

- Four letters of recommendation are required. A minimum of 3 out of 4 of these letters must be submitted by someone with a terminal degree (i.e. Ph.D., M.D., Ed.D., etc.) and must be from a person with direct knowledge of

the applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

Degree Requirement s

A minimum of 36+ credit hours are required prior to sitting for the qualifying exam, followed by the completion of a dissertation. Determination of a student's particular course plan is made in consultation with the student and his or her approved advisory committee. The dissertation is guided and ultimately approved by the student's dissertation committee.

The Exercise Science Core includes 18+ hours and provides the student with a broad understanding of the various disciplines involved in this field. Each student is also required to take a minimum of 6 hours in research/statistic course work. Beyond this minimum, an advisor and committee in consultation with each student set the structure and content of the doctoral program. The number of formal courses within each area of specialization may vary. It is expected that the depth of knowledge in each area of study comes from independent study and research experiences, in addition to the dissertation, which are all under the direction of the faculty. Each student will demonstrate their depth of knowledge by their qualifying

exams. Typically, it will take from 3-5 years for the student to complete the degree requirements including the dissertation.

Graduate Certificate

Health Coaching Certificate

Health Coaching has been defined as, "...the practice of health education and health promotion within a coaching context, to enhance the wellbeing of individuals and to facilitate the achievement of their health-related goals" (Palmer et al., 2003). Health coaches help clients identify their goals, develop an action plan, and help put the plan into action while giving support and helping to motivate clients toward success. The Department of Kinesiology & Health Promotion at the University of Kentucky proposes a new 15-credit graduate certificate in health coaching designed to meet the supplemental education needs of current health promotion professionals and those training to become health promotion professionals. The graduate certificate would be open to any students who are already are or will be enrolled in a degree program, or those who simply apply for postbaccalaureate (non-degree) status in order to complete the certificate, are eligible to apply for admission.

High Performance

Coaching Certificate

The University of Kentucky Department of Kinesiology and Health Promotion offers a Graduate Certificate in Health Coaching. Health Coaching has been defined as, "...the practice of health education and health promotion within a coaching context, to enhance the wellbeing of individuals and to facilitate the achievement of their health-related goals." The aim of the Graduate Certificate curriculum is to provide a foundation in current behavior change theories/models, motivational interviewing, as well as understanding of current health issues. Students may complete the certificate as a complement to a graduate disciplinary degree program or as a stand-alone curriculum. Students who are currently enrolled as a graduate student in a department at the University of Kentucky are encouraged to apply for the Health Coaching Graduate Certificate program early in their graduate studies. Students who are enrolled in the M.S. in Health Promotion program are eligible to count up to 9 credit hours from their program, requiring them to take six additional credit hours (on top of their M.S. curriculum) to complete the graduate certificate.

Sport, Fitness, and Recreation Management Certificate

This 12-credit graduate certificate in Sport, Fitness, and Recreation Management is designed for current professionals to increase their understanding of leadership skills and principles. The graduate certificate will offer students the opportunity to be a part of the University of Kentucky tradition, while also advancing a knowledge base in leadership principles including but not limited to: legal issues, policy & governance, and historical foundations of athletics.

Master of Science

Kinesiology and Health Promotion, MS

The master's program is designed to provide a high-quality graduate program for students who desire advanced study to enhance their professional knowledge and skills as well as for students who complete the master's degree as an intermediate step toward doctoral work. Students can select from a variety of specializations (Biomechanics, Exercise Physiology, Health Promotion, Physical Education, Coaching, and Sport Leadership) to meet their interest areas and career goals as described below.

The objective of the program is to prepare the student to:

- permit an in-depth study of a specialized

content area within the field;

- effectively locate, analyze, and use significant elements of the professional literature and research materials;

- acquire a knowledge of sound research procedures; and

- engage in clinical, applied, and/or experiential learning opportunities to enhance students' professional development

The course work and program experiences are designed to enable graduate students in the Department of Kinesiology and Health Promotion to demonstrate:

1. Educational, professional and technological standards.

2. Literacy skills for life-long professional learning.

3. Current, factual, and functional content knowledge.

4. Functional skills and dispositions of professionals.

5. Skills for research and reflection for learning and leading.

6. Skills to plan, implement, and evaluate basic and applied research.

7. Skills to analyze and interpret research data.

To accomplish these outcomes, students are introduced to a combination of departmental course offerings, supporting electives, and a required core of statistics and research methods. Students work with their advisor to tailor course work and additional opportunities to their interests areas and career goals. Master's candidates with the approval of the department may select either a thesis (Plan A) or a non-thesis option (Plan B).

BIOMECHANICS SPECIALIZATION

The specialization in human biomechanics is a multidisciplinary program working together with Kinesiology, Health Sciences, and Engineering. The program helps address critical problems related but not limited to sport, exercise, health, aging, space science and ergonomics.

EXERCISE PHYSIOLOGY SPECIALIZATION

The specialization in Exercise Physiology offers a robust science-based curriculum to prepare students for a variety of careers in research, clinical, and practitioner-based settings. The curriculum offers numerous clinical, applied, and experiential learning opportunities to enhance students' professional development. Students may pursue research or internship-based tracks to effectively

prepare for their professional endeavors.

HEALTH PROMOTION SPECIALIZATION

The specialization in Health Promotion is for students passionate about health and wellness who want to make a positive impact on other people's lives. With a flexible distance learning degree option, students will gain advanced professional skills, build professional relationships with top alumni, and engage with internationally recognized faculty in health promotion. The curriculum offers numerous applied and experiential learning opportunities to enhance students' professional development. Students may pursue research or internship-based tracks to effectively prepare for their professional endeavors. Students will also be prepared to sit for the Certified Health Education Specialist (CHES) examination, a professional credential widely respected in the health promotion field.

SPORT LEADERSHIP SPECIALIZATION

The Sport Leadership specialization focuses on preparing leaders in all sport, recreation, and fitness related fields. The goal is to help students develop the knowledge and skills to be more effective practitioners and researchers in the field of leadership.

PHYSICAL EDUCATION SPECIALIZATION

The Physical Education (Teaching) specialization focuses on connecting theory of effective teaching processes and the practice of effective teaching in physical education. In addition to learning about appropriate teaching methods, you learn very valuable experiences in the field. Please note: This degree does not lead to teacher certification.

COACHING SPECIALIZATION

The master's degree with a specialization in coaching is directed primarily at preparing graduate students to be coaches at the elementary school, middle school, high school, and collegiate levels. The aim is to help teaching and coaching master's students develop the knowledge and skills to be more effective practitioners and researchers in the field of coaching.

Admission Requirements

Applicants must meet the Graduate School requirements set forth in the first part of this Bulletin as well as those set forth for each specialty area. Additional information can be found on the departmental website and is briefly summarized below: <https://education.uky.edu/khp/grad/> Specific prerequisites

for graduate study at the master's level are determined by a committee of the departmental graduate faculty based upon area of emphasis.

- Priority deadline for upcoming academic year: February 1
- Fall: July 15 (international students: April 15)
- Spring: December 1 (international students: August 22)

Please note: all of our specializations are slightly different so information on each is included below.

BIOMECHANICS SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: not required A total of three letters of recommendation are required.
- A minimum of 2 out of 3 of these letters must be submitted by someone with a terminal degree (i.e. Ph.D., M.D., Ed.D., etc.) and must be from a person with direct knowledge of the applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

EXERCISE PHYSIOLOGY SPECIALIZATION

- Students must contact a program faculty member prior to applying to the program. It is important to identify a faculty member for which the student has similar research/scholarly interests.

- Personal Statement (must indicate a primary and secondary program faculty member)
- GRE Requirements: Not required
- GPA requirement: 3.2 or higher

HEALTH PROMOTION SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: Not required.
- GPA requirement: 2.75 or higher
- Resume/CV
- A professional goal statement describing the applicant's professional background, motivations for seeking a graduate education in this specialty area, why the current program is an ideal fit, and career/research aspirations.
- Three letters of recommendation: At least two must be from a person with direct knowledge of applicant's academic capabilities (e.g., instructor, research supervisor, advisor, etc.).

SPORT LEADERSHIP SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: not required.
- GPA requirement: 2.75 or higher
- Three letters of recommendation

PHYSICAL EDUCATION SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: Not required.
- GPA requirement: 2.75 or higher
- Three letters of recommendation

COACHING SPECIALIZATION

- A bachelor's degree from an accredited college or university with adequate preparation in health, physical education, or related fields.
- GRE Requirements: Not required.
- GPA requirement: 2.75 or higher
- Three letters of recommendation

Degree Requirement S

Please note: all of our specializations are slightly different so information on each is included below.

BIOMECHANICS SPECIALIZATION

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are

specific to the biomechanics specialization. A minimum of 30 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Methods (6-7 hours)
- KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
- STA 570 or STA 580 / CPH 580 or EPE 558 / EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (12 hours)
- Disciplinary Support/Supporting Electives (6 hours)
- Thesis (6 hours)

Plan B

- Research Methods (6-7 hours)
- KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION (3 credits)
- STA 570 or STA 580 / CPH 580 or EPE 558 / EDP 558 - Basic Statistical Analysis or equivalent (3 or 4 credits)
- Area of concentration (15 hours)

- Disciplinary Support/Supporting Electives (6 hours)
- Independent research/study (3 hours)

**EXERCISE
PHYSIOLOGY
SPECIALIZATION**

Research Methods and Statistics (6-7 hours) are required for all Kinesiology and Health Promotion majors while the remainder of the courses are specific to the exercise physiology specialization. A minimum of 30 total hours is required. See program website for pre-requisites and possible electives.

Plan A

- Research Tools (6-7 hours)
 - KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTI

ON (3 credits)
• STA 570 or EPE 557 / EDP 557 - Basic Statistical Analysis or equivalent (3 or 4 credits)
• Area of concentration (12 hours)
• Disciplinary Support/Supporting Electives (6 hours)
• Thesis (6 hours)

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• Research Methods (6-7 hours)

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• KHP 676 CURRENT ISSUES AND PROBLEMS IN SPORT MANAGEMENT

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