The University of Tennessee began as a liberal arts institution. Before the turn of the century, less emphasis was placed on the liberal education. However, the liberal arts continued to thrive, emerging as a college in 1904. Thus, the College of Liberal Arts (now known as the College of Arts and Sciences) is one of the oldest established colleges in the university.

The College of Arts and Sciences consists of a wide array of academic disciplines and interdisciplinary programs. The central purposes of a liberal education include the encouragement of intellectual tolerance, a dedication to the quest for knowledge as a worthwhile goal in and of itself, and the cultivation of a responsible, creative individual mind. These qualities enable one to develop an ability to reason and to express oneself clearly, an incentive to absorb emerging knowledge, and a competence to confront the uncertainties of human experience. Faculty research and creative activity is the foundation on which education in this college is built. As a result of that endeavor, the lives of students are enriched and the world’s body of knowledge grows.

The College of Arts and Sciences offers programs in twenty-seven academic disciplines leading to nine advanced degrees: Doctor of Audiology, Doctor of Philosophy, Master of Arts, Master of Fine Arts, Master of Mathematics, Master of Music, Master of Public Administration, Master of Science, and Master of Science in Planning.

Facilities for research and service include the Center for Applied and Professional Ethics, the Center for Environmental Biotechnology, the Center for Quaternary Studies of the Southeastern United States, the Center for the Study of War and Society, the Child Behavior Institute, the Forensic Anthropology Center, the Hearing and Speech Center, the Institute for Applied Microbiology, the Institute for Resonance Ionization Spectroscopy, the Joint Institute for Heavy Ion Research, the Psychological Clinic, the Science Alliance, and the Social Science Research Institute.

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Facilities for research and service include the Center for Applied and Professional Ethics, the Center for Environmental Biotechnology, the Center for Quaternary Studies of the Southeastern United States, the Center for the Study of War and Society, the Child Behavior Institute, the Forensic Anthropology Center, the Hearing and Speech Center, the Institute for Applied Microbiology, the Institute for Resonance Ionization Spectroscopy, the Joint Institute for Heavy Ion Research, the Psychological Clinic, the Science Alliance, and the Social Science Research Institute.
Graduate applications are considered once a year by the Graduate Committee. All application materials must be received in the department by January 15 for admission the following fall. Because of the structure of first-year studies, MA students should plan to begin their studies in the fall semester.

Requirements

The program leading to the MA is a general curriculum that allows for concentration after completion of a core course sequence. Formal requirements include the following:

- Selection of an MA advisor. This should be done as soon as possible in the student’s program but must be done no later than the end of the first semester in residence. The department graduate secretary must be informed of the advisor.
- A minimum of 30 hours in graduate courses. Twenty-four hours must be in coursework graded A-F. Coursework must include three core classes taken in the first year.
- Additional coursework should be selected in consultation with the student’s advisor and must include one additional course from two anthropology concentrations besides the student’s primary concentration. At least 20 hours of coursework must be at the 500 level or higher. Students concentrating in Mediterranean archaeology, in consultation with their advisor, should select their additional 18 hours from courses offered in the Anthropology, History, or Classics departments.
- During the first year, comprehensive graduate evaluation examinations are required of all MA students and are based on the content of the core courses. These examinations are given during regularly-scheduled final periods in each core class and are graded by all faculty within the appropriate sub-discipline for each course. At the end of the first year, all MA students are evaluated by the entire faculty and will either be retained or dropped from the program based on their first year’s performance and scores from the department’s Graduate Evaluation Examination.
- All MA students must attend the graduate section of the visiting lecturer program. To ensure compliance with this requirement, each student is required to register for 1 hour of Anthro 550 in the fall semester of each year and fulfill all requirements for the course as defined by the instructor. Materials covered by visiting lecturers may appear on the Graduate Evaluation Examination.
- A graduate-level introductory statistics course, usually Statistics 537.
- In the second year of the program, students pursue their concentration area and undertake thesis research. Coursework will be determined through consultation with the student’s advisor and committee (composed of the advisor, at least one other member of the anthropology faculty, and other mutually-agreed-upon members).
- Successful completion of the thesis and final oral examination. Normally, students will complete and defend their theses during the spring semester of their second year.
- Electronic submission of the thesis is required by the Graduate School. In addition, bound copies of the thesis are to be provided to the department and to all members of the student’s MA committee.

In addition to the requirements listed above, MA students have the option of completing a minor in statistics. The statistics minor requires 9 hours of coursework, normally Statistics 537 and 538 plus one additional course from an approved list.
DOCTOR OF PHILOSOPHY
ANTHROPOLOGY MAJOR

In addition to the Graduate Council requirements, requirements for the PhD with a major in anthropology, in the appropriate sequence of completion, are as follows.

Admission

Admission to the PhD program is contingent upon completion of all requirements prior to that level. Master’s thesis candidates at the University of Tennessee, Knoxville, who are conditionally accepted into the PhD program can enroll as doctoral students the semester following conferral of the MA. Students holding master’s degrees from other institutions must apply by January 15 for admission the following fall and must begin their studies in the fall semester.

Admission to the PhD program is based upon the applicant’s academic record and credentials and also on the fit between an individual’s interest and faculty areas of research. Applicants will not be admitted to the PhD program unless appropriate faculty members are available to chair and serve on the doctoral committee. Doctoral program applicants should communicate directly with the potential chairperson and two additional members of the anthropology faculty who will be asked to serve on the committee.

Applicants to the PhD program should meet the same academic standards as MA program applicants and furnish the same materials (see Admission under Master of Arts). Admission to the program requires either

- Acceptance of a master’s in anthropology.
- Acceptance of a master’s in another discipline with the provision that the student will follow the first-year program with entering MA students, i.e., complete the core courses (510, 560, 590) and pass the graduate evaluation examinations.

Requirements

Doctoral Committee

A doctoral committee is appointed following admission to the program. In consultation with this committee, the student defines the future program of studies. When the student and committee have agreed upon the specific fields of specialized competence over which the student will be examined, a brief delineation of the fields by the student, approved by the members of the committee, is presented to the department head and the student’s major professor. As early as possible, but no later than a full semester after admission to candidacy, the student must formally present a written dissertation proposal to the department head and advisor.

Residence and Coursework

Every potential PhD candidate must complete two consecutive semesters of full-time residence prior to taking the doctoral comprehensive examination. The student must complete the minimum coursework requirements of the Graduate Council, including at least 9 hours of 500- or 600-level courses outside of anthropology, chosen in consultation with the doctoral committee, particularly the outside member who represents the cognate area. Outside coursework may be taken in a single discipline or be distributed across two or more disciplines as appropriate to the individual’s program of study.

Statistics

Demonstration of competence in statistics by completing Statistics 537 and 538 with a grade of B or better is required.

Language

Students must demonstrate knowledge of one foreign language. This language should normally be French, German, Russian or Spanish, but another language may be substituted at the committee’s discretion. This requirement may be met by either

- Successful performance on a language examination administered by the appropriate language department. A student electing this alternative should consult with the advisor.
- Completion of the second semester of specialized reading courses for graduate students with a grade of B or better.

The department does not accept completion of the intermediate (200 level) sequence of a language as a formal option for fulfilling the language requirement.

Doctoral Comprehensive Examination

Students must successfully complete a written and oral comprehensive exam.

- Comprehensive Written Examination – When the PhD aspirant has completed all of the foregoing requirements and is judged by the committee to be prepared in the field(s) of concentration, the student will be required to take a comprehensive written examination. The exam will consist of three sections and be given by the student’s committee. All three sections must be taken within seven consecutive days.
- Comprehensive Oral Examination – This examination follows shortly after successful completion of the comprehensive written exam. The major professor acts as chairperson of the committee.

Admission to Candidacy

Upon successful completion of the comprehensive exam and with the formal approval of the Dean of the Graduate School, the student is admitted to candidacy for the PhD degree. The formal dissertation prospectus must be filed no later than one full semester after advancement to candidacy.

Dissertation Research

This period of research and writing will be under the direct guidance of the candidate’s major professor. The major professor will act as chairperson of the candidate’s committee. The candidate must earn a minimum of 24 hours in Anthropology 600 and maintain continuous registration until the dissertation is accepted. The option of presenting publishable papers as a dissertation is not a formal option for the Anthropology Department.

Defense of Dissertation Examination

When the dissertation has been tentatively accepted by the committee, a final oral examination will be held. The committee conducts the exam, which is ordinarily held as a colloquium in which the candidate will expound on the nature and significance of his/her contribution to anthropological knowledge as set forth in the dissertation.

SCHOOL OF ART

http://web.utk.edu/~art

Paul Lee, Director
Suzanne Wright, Associate Director
Tom Riesing, Graduate Program Director

Professors

Brauker, M., MFA ............................................. Yale
Goldstein, M.B., MFA .................................... Nebraska
Habel, S., MGD .............................................. Michigan
Lee, B., MFA ..................................................... Yale
Lee, P., MFA ................................................. Cranbrook Academy of Art
Lyons, B., MFA ................................................ Arizona State
Magden, N., PhD ............................................ Case Western Reserve
Riesing, T.J., MFA ........................................... Nebraska
Staples, C., MFA ............................................. Michigan State
Wilson, D., MFA .............................................. Wisconsin
Yates, S.A., MFA ............................................ North Carolina (Greensboro)

Associate Professors

Brogden, S., MFA .......................... New York State College of Ceramics at Alfred
Brown, J., MFA .................... Rhode Island School of Design
Dewey, W., PhD ............................. Indiana
Hiles, T.W., PhD ............................... Penn State
Lowe, S., MGD ......................... North Carolina State
Martin, F., MFA ................................ Cranbrook Academy of Art
Neff, A.L., PhD .............................. Pennsylvania
work, must satisfactorily complete an oral examination.

prior to registration for 599. The committee must consist of one faculty member from the candidate’s concentration area (designated as chairperson) and a faculty member from outside the concentration area. The inclusion of an art history faculty member on each committee is encouraged.

With the completion of all requirements for the MFA, the student must produce an exhibition and, in the presence of that work, must satisfactorily complete an oral examination.

**Academic Standards**

- **First-year evaluation.** At the end of the first two semesters in residence, the student must present a portfolio for evaluation by the faculty and receive permission to continue in the program.

- **Second-year evaluation.** With completion of all coursework, the student must present work for evaluation by the faculty and receive permission to register for Project in Lieu of Thesis.

- If, in a review by the student’s major area faculty, the student’s progress is deemed insufficient, the faculty may recommend a work period without advancement toward the degree, probation with specific goals set for a specific time, or dismissal.

**Art History Minor**

A graduate minor in art history may be arranged during the student’s first semester of study with the consent of the student’s area instructors and the art history faculty. Students must complete a minimum of 12 hours in art history that is agreed upon by the art history faculty after review of previous undergraduate coursework. A reading knowledge of French, German, or Italian is a prerequisite, unless waived by the art history faculty. Graduate Council policy stipulates that a member from the minor unit must serve on the thesis committee.

**DEPARTMENT OF AUDIOLOGY AND SPEECH PATHOLOGY**

http://web.utk.edu/~aspweb/

**Lisa Schwarz, Head**

**Professor**

Schwarz, I., PhD  ........................................... Oregon

**Associate Professors**

Erickson, M., PhD ................................................... Southern California
Harkrider, A., PhD ................................................... Texas
Hedrick, M., PhD ................................................... Vanderbilt
Karow, C., PhD ................................................... Texas
Plyler, P., PhD ................................................... Tennessee
Thein, J., PhD ................................................... Iowa

**Assistant Professors**

Ha, S., PhD ................................................... Illinois
Johnstone, P., PhD ................................................... Wisconsin
Saltuklaroglu, T., PhD ................................................... East Carolina
Von Hapsburg, D., PhD ................................................... Texas

**Instructor**

Singletary, T., MS ................................................... Colorado State

**Clinical Director**

Michael, A., PhD ................................................... Vanderbilt

**Clinical Faculty**

Baker, S., MA ................................................... Tennessee
Barnes, V., MA ................................................... Tennessee
Beason, H., AuD ................................................... Tennessee
Beeler, J., MA ................................................... Tennessee
Buehler, V., MA ................................................... Tennessee
Cutler, M., PhD ................................................... Georgia
Donels, E., MA ................................................... Tennessee
Humphrey, E., AuD ................................................... Tennessee
Hume, S., PhD ................................................... Tennessee
Jenkins, K., MA ................................................... Tennessee
Noss, E., MA ................................................... Tennessee
Plyler, E., AuD ................................................... Arizona School of Health Sciences
Schay, N., AuD ................................................... Tennessee
Seaward, S., AuD ................................................... Tennessee
Valentine, D., PhD ................................................... Tennessee
Vaughn, T., MS ................................................... Eastern Kentucky
Webb, P., MEd ................................................... Florida
Yeager, K., AuD ................................................... Tennessee

**DEPARTMENT OF GRADUATE STUDIES**

**Clinical Assistant Professors**

Beason, H., AuD ................................................... Tennessee

**Clinical Faculty**

Humphrey, E., AuD ................................................... Tennessee
Hume, S., PhD ................................................... Tennessee
Jenkins, K., MA ................................................... Tennessee
Noss, E., MA ................................................... Tennessee
Plyler, E., AuD ................................................... Arizona School of Health Sciences
Schay, N., AuD ................................................... Tennessee
Seaward, S., AuD ................................................... Tennessee
Valentine, D., PhD ................................................... Tennessee
Vaughn, T., MS ................................................... Eastern Kentucky
Webb, P., MEd ................................................... Florida
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Karow, C., PhD ................................................... Texas
Plyler, P., PhD ................................................... Tennessee
Thein, J., PhD ................................................... Iowa

**Assistant Professors**

Ha, S., PhD ................................................... Illinois
Johnstone, P., PhD ................................................... Wisconsin
Saltuklaroglu, T., PhD ................................................... East Carolina
Von Hapsburg, D., PhD ................................................... Texas

**Instructor**

Singletary, T., MS ................................................... Colorado State

**Clinical Director**

Michael, A., PhD ................................................... Vanderbilt

**Clinical Faculty**

Baker, S., MA ................................................... Tennessee
Barnes, V., MA ................................................... Tennessee
Beason, H., AuD ................................................... Tennessee
Beeler, J., MA ................................................... Tennessee
Buehler, V., MA ................................................... Tennessee
Cutler, M., PhD ................................................... Georgia
Donels, E., MA ................................................... Tennessee
Humphrey, E., AuD ................................................... Tennessee
Hume, S., PhD ................................................... Tennessee
Jenkins, K., MA ................................................... Tennessee
Noss, E., MA ................................................... Tennessee
Plyler, E., AuD ................................................... Arizona School of Health Sciences
Schay, N., AuD ................................................... Tennessee
Seaward, S., AuD ................................................... Tennessee
Valentine, D., PhD ................................................... Tennessee
Vaughn, T., MS ................................................... Eastern Kentucky
Webb, P., MEd ................................................... Florida
Yeager, K., AuD ................................................... Tennessee
AURAL HABILITATION CONCENTRATION
Requirements
being devoted primarily to formal coursework, and the last year
study beyond the baccalaureate degree with the first three years
Hearing Association. Students will be expected to demonstrate
Academic Accreditation of the American Speech-Language-
processes involved in hearing, vestibular function, and communi-
gree program is clinically oriented, with primary emphasis on
pare individuals for professional careers in audiology. The de-
AUDIOLOGY MAJOR
DOCTOR OF AUDIOLOGY
AUDIOLOGY MAJOR
The Doctor of Audiology (AuD) program is designed to pre-
pare individuals for professional careers in audiology. The de-
gree program is clinically oriented, with primary emphasis on
processes involved in hearing, vestibular function, and communi-
cation. The program is designed to meet the entry-level require-
ments for the practice of audiology established by the Council on
Academic Accreditation of the American Speech-Language-
Hearing Association. Students will be expected to demonstrate
competencies in the following areas:
• Prerequisite knowledge and skills for the practice of audi-
ology.
• Foundations of practice for audiology.
• Prevention and identification of auditory, vestibular, and
related communication disorders.
• Evaluation of auditory, vestibular, and related communica-
tion disorders.
• Treatment of auditory, vestibular, and related communica-
tion disorders.

The program will normally consist of four calendar years of
study beyond the baccalaureate degree with the first three years
being devoted primarily to formal coursework, and the last year
to a full-time externship in the practice of clinical audiology.

Requirements
A minimum of 112 hours, including a minimum of
• 67 hours of academic coursework at the 500- and 600-levels.
• 3 hours of directed research in audiology, vestibular, or re-
lated communication disorders.
• 24 hours of clinical practice in audiology.
• 18 hours of externship in audiology.
• A qualifying examination.
• A comprehensive examination.

AURAL HABILITATION CONCENTRATION
(see section below)

MASTER OF ARTS
SPEECH PATHOLOGY MAJOR

Admission to this graduate program is competitive. This gradu-
ate program is accredited by the Council on Academic Accredi-

Requirements
The master’s program in speech pathology is a two year pro-
gram and consists of the completion of 42 hours of academic content courses (including thesis) plus practicum.
The required courses are 506, 511, 518, 526, 527, 539 or
541, 540, 561, 582, and at least one seminar from 522, 523, 531,
626, or 661. At least 12 hours of elective courses with no more
than 6 hours below the 500 level. Undergraduate coursework
may not be substituted for seminar courses. Students who have
not completed an undergraduate course in speech sound disor-
ders, voice disorders, and fluency disorders must complete one
graduate course in each of these areas.

Students majoring in speech pathology may elect either the
thesis or non-thesis option. The master’s program in speech
pathology with thesis includes 6 hours of 500 credit in the prepa-
ration of an acceptable thesis representing original independent
work, and a final oral examination. Students in the non-thesis op-
tion must pass a final written examination.

AURAL HABILITATION CONCENTRATION

Graduate students in both audiology and speech pathology
may elect to pursue a concentration in the area of aural habilita-
tion. Admission to the program is competitive and applications
are available on the departmental Web site. The aural habilitation
concentration requires the following:
• Three semesters of clinical practicum in treatment of chil-
dren who have hearing impairments totaling a minimum of
130 clock hours.
• Completion of 6 hours of graduate coursework in lan-
guage, audiology and/or aural habilitation in elective re-
quirements for the MA or AuD.

Specific requirements are outlined in the MA and AuD gradu-
ate handbooks as well as on the departmental Web site.

DOCTOR OF PHILOSOPHY
SPEECH AND HEARING SCIENCE MAJOR

The PhD program with a major in speech and hearing science
seeks to develop individuals for professional careers in a variety of
positions including research and college teaching in the concentra-
tion areas of audiology, hearing science, speech and language
pathology, or speech-language science. The degree program is re-
search oriented with primary emphasis on processes involved in
normal, or disordered speech, language and hearing. Students will
be expected to demonstrate their knowledge in areas related to the
concentrated field of study. These areas include
• Basic speech, hearing, or language processes.
• Basic speech, hearing, or language disorders or differences.
• Related disciplines providing insight into human commu-
nication processes.
• Technical skills in instrumentation and experimental de-
sign which enable the student to investigate problems per-
taining to speech and hearing processes.

Requirements
The doctoral program requires successful completion of
coursework, research projects, a comprehensive examination
and dissertation. The total program includes a minimum of 60
hours with a minimum of
• 6 hours in a research tool.
• 6 hours in a cognate field outside the department.
• 24 hours in the major area of study (6 hours must be at the 600 level within the department). These will include:
  a. A minimum of 6 hours on the topic of major interest.
  b. A minimum of 6 hours earned through participation in two different research projects.
  c. 3 hours of Audiology and Speech Pathology 611 (Experimental Design) course (or equivalent).
  d. 3 hours of Audiology and Speech Pathology 655 supervised teaching experience.

• 24 hours in dissertation, course 600, enrollment.

To complete the doctoral program, students must prepare a dissertation and defend it successfully. Students must pass a comprehensive examination with both a written and an oral component before being advanced to candidacy. The doctoral program should be developed in the first year of study and is the responsibility of the student and the doctoral committee.

DEPARTMENT OF BIOCHEMISTRY AND CELLULAR AND MOLECULAR BIOLOGY

http://web.bio.utk.edu/bcmb/

Bruce D. McKee, Head and Graduate Program Director

Professors
Bruce, B., PhD ........................................ California (Berkeley)
Ganguly, R., PhD .................................. Nebraska
Howell, E., PhD ........................................... Lehigh
Joy, D., (Distinguished Scientist), DPhil .................. Oxford (UK)
Koontz, J., PhD ............................................. Kentucky
McKee, B., PhD ........................................... Michigan State
Millhorn, D., PhD ......................................... Ohio State
Mullin, B., PhD ........................................... North Carolina State
Peterson, C., PhD ........................................... Louisiana State
Roberts, D., PhD ................................ ........... California (Davis)
Serpersu, E., PhD ........................................... Hacettepe (Turkey)
Smith, J., PhD .............................................. London (UK)

Associate Professors
Alexandre, G., PhD ........................................ Claude Bernard Lyon (France)
Fernandez, E., PhD ........................................ Loyola
Hall, J., PhD .............................................. Illinois
Park, J., PhD ............................................... Texas A&M
Prosser, R., PhD .............................................. Illinois
von Armin, A., PhD ....................................... East Anglia (UK)

Assistant Professors
Baudry, J., PhD .........................................Pierre and Marie Curie (France)
Goodchild, R., PhD ..................................... Newcastle (UK)
Guo, H., PhD .............................................. Harvard
Jain, N., PhD .............................................. Brandeis
Kitazono, A., PhD .......................................... Nagasaki (Japan)
Labrador, M., PhD ........................................... Madrid (Spain)
Nebenführ, A., PhD ....................................... Oregon State
Shpak, E., PhD .............................................. Ohio
Venkatachalam, S., PhD ................................... Ohio State

Adjoint and Research Faculty
Agarwal, P., PhD ........................................ Penn State
Allison, D., M. ............................................ Tennessee
Biggerstaff, J., PhD ................................... Brunel (UK)
Georgiou, S., PhD ......................................... Manchester (UK)
Mazur, P., PhD .......................................... Harvard
McDonald, W., PhD ................................... Vanderbilt
O'Neill, H., PhD .......................................... Dublin (Ireland)
Wang, Y., MD ............................................. Harbin Medical (China)
Wimalasena, J., PhD .................................. Colorado Medical

MAJOR               DEGREES
Biochemistry and Cellular and Molecular Biology  MS, PhD

Admission

Applicants for graduate study are expected to have a background equivalent to that required of undergraduate majors in this department. This includes a knowledge of the basic principles of biochemistry, cell biology, genetics and physiology. Requirements for admission are

• One year of general biology or the equivalent.
• A minimum of 8 hours of approved biology courses beyond the introductory level and including the subject areas of genetics, cell biology and physiology.
• Two years of chemistry including one year of general chemistry and one year of introductory organic chemistry with laboratory.
• At least one semester of biochemistry.
• One year of calculus.
• One year of physics.
• Graduate Record Examination scores.
• A minimum grade point average of 3.00 out of 4.00.

Otherwise superior students, deficient in one or more of the above requirements, may be admitted at the discretion of the department’s Graduate Admissions Committee.

MASTER OF SCIENCE

BIOCHEMISTRY AND CELLULAR AND MOLECULAR BIOLOGY MAJOR

Requirements

• Biochemistry and Cellular and Molecular Biology 511, 512, and 515, and 6 hours of 516.
• Completion of course requirements as determined by the candidate’s faculty committee.
• Achievement of a 3.00 or better GPA in all courses taken for graduate credit.
• Participation in 601 and 603 during the entire period of residence. Participation in at least one journal club chosen from among 605-608 for three semesters.
• 6 hours of master’s research and a thesis.
• Passing a final examination that covers both the thesis endeavor and the subject matter of the course requirements.

DOCTOR OF PHILOSOPHY

BIOCHEMISTRY AND CELLULAR AND MOLECULAR BIOLOGY MAJOR

Requirements

• Biochemistry and Cellular and Molecular Biology 511, 512, 515, and 6 hours of 516.
• At least two additional approved graduate courses in the life sciences or chemistry, or physics, or other physical science to be determined upon consultation with the mentor and the dissertation committee. No survey courses will be accepted.
• At least 6 hours of topics offered in 615 or its equivalent.
• Participation in 601 and 603 during the entire period of residence. Participation in at least one journal club chosen from among 605-608 for 6 semesters.
• Passing a comprehensive examination, taken before the end of the third year of study.
• A dissertation reporting the results of original and significant research carried out during the term of candidacy.
• Passing a final oral examination which will be concerned primarily with the student’s dissertation.
Petitioning for Master’s Degree

Students who have passed the comprehensive examination in the PhD program and have completed at least 30 hours of approved coursework for graduate credit, at least two-thirds of which must be at or above the 500 level, may petition the department for award of a master’s degree. The additional requirements for such a degree are:

- Preparation of a research manuscript suitable for submission for publication in a major scientific journal and oral defense of that manuscript before an examining committee of three faculty members appointed by the head of the department, at least two of whom shall be members of the department.

- Publication of at least one full-length paper in a major scientific journal as senior author.

DEPARTMENT OF CHEMISTRY

http://www.chem.utk.edu

Craig E. Barnes, Head
Charles S. Feigerle, Graduate Program Director

Professors

Adcock, J.L., PhD  . . . . . . . . . . . . . . Texas
Baker, D.C., PhD  . . . . . . . . . . . . . . Ohio State
Barnes, C.E., PhD  . . . . . . . . . . . . . . Stanford
Bartmess, J.E., PhD  . . . . . . . . . . . . . . Northwestern
Bursten, B.E. (Dean), PhD  . . . . . . . . Wisconsin
Compton, R.N., PhD  . . . . . . . . . . . . . . Tennessee
Cook, K.D., PhD  . . . . . . . . . . . . . . Wisconsin
Damron, M.D., PhD  . . . . . . . . . . . . . . Massachusetts
Feigerle, C.S., PhD  . . . . . . . . . . . . . . Colorado
Guiochon, G.A. (Distinguished Scientist, Science Alliance
  Center of Excellence), PhD  . . . . Paris (France)
Harrison, R.J. (Joint Faculty), PhD  . . . . Cambridge (UK)
Hinde, R.J. (Associate Dean), PhD  . . . . Chicago
Kabalka G.W. (Robert H. Cole Professor,
  Alumni Distinguished Service Professor), PhD  . . . . Purdue
Kilbey II, S.M. (Joint Faculty), PhD  . . . . Minnesota
Kovac, J.D., PhD  . . . . . . . . . . . . . . Yale
Larase, J.Z., PhD  . . . . . . . . . . . . . . Wesleyan
Mays, J.W. (Distinguished Scientist, Science Alliance Center of
  Excellence), PhD  . . . . . . . . . . . . . . Akron
Musfeldt, J.L., PhD  . . . . . . . . . . . . . . Florida
Petersen, J.D. (President), PhD  . . . . California (Santa Barbara)
Schweitzer, G.K. (Alumni Distinguished Service Professor), PhD  . . . . Illinois
Sepaniak, M.J., PhD  . . . . . . . . . . . . . . Iowa State
Williams, T.F. (Alumni Distinguished Service Professor),
  PhD  . . . . . . . . . . . . . . London (UK)
Woods, III, C. (Associate to the Chancellor), PhD  . . . North Carolina State
Xue, Z., PhD  . . . . . . . . . . . . . . California (Los Angeles)

Associate Professor

Schell, F.M., PhD  . . . . . . . . . . . . . . Indiana

Assistant Professors

Best, M.D., PhD  . . . . . . . . . . . . . . Texas
Camden, J.P., PhD  . . . . . . . . . . . . . . Stanford
Campagna, S.R., PhD  . . . . . . . . . . . . . . Princeton
Fositer, S., PhD  . . . . . . . . . . . . . . California Institute of Technology
Jenkins, D.M., PhD  . . . . . . . . . . . . . . California Institute of Technology
Vogt, F., PhD  . . . . . . . . . . . . . . Karlsruhe (Germany)
Zhao, B., PhD  . . . . . . . . . . . . . . Akron

MAJOR Chemistry

Analytical chemistry concentration
Environmental chemistry concentration
Inorganic chemistry concentration
Organic chemistry concentration
Physical chemistry concentration
Polymer chemistry concentration

PhD Chemistry

Analytical chemistry concentration
Chemical physics concentration (with Physics Department)
Environmental chemistry concentration
Inorganic chemistry concentration
Organic chemistry concentration
Physical chemistry concentration
Polymer chemistry concentration
Theoretical chemistry concentration

The faculty of the Department of Chemistry at the University of Tennessee, Knoxville, seek to prepare their students to join the international ranks of professional chemists in fundamental areas of chemistry as well as cross-disciplinary sciences in which chemical expertise plays a critical role in the development of new knowledge and technologies. Students planning to major in chemistry for the master’s or doctoral degree will ordinarily have attained a satisfactory record in the traditional areas of chemistry. The department, however, recognizes that modern chemistry transcends traditional disciplinary divisions. Therefore, it encourages students with undergraduate majors in chemical engineering, the biological sciences, physics, mathematics, computer science, or other fields to apply for admission to our program.

Admission

Admission to the graduate program is decided on a case-by-case basis, taking into consideration an applicant’s undergraduate record (traditionally including courses in general, analytical, inorganic, organic, and physical chemistry), performance on the general Graduate Record Examination (required), and supporting information such as references from previous faculty and research mentors, co-authorship of research presentations or papers, and awards. Recommendation for a student’s initial course of study in graduate school is based on the desired specialization, previous training and experience, and performance on departmental diagnostic exams administered following arrival in the department.

MASTER OF SCIENCE

CHEMISTRY MAJOR

Requirements

The requirements for the MS with a major in chemistry consist of the satisfactory completion of the following requirements.

- Research and a thesis to give 6 to 12 hours of graduate credit in Chemistry 500.
- Participation in seminar (Chemistry 501) during the entire period of graduate study, including the presentation of at least one seminar. (No more than 2 hours may be applied to the course requirements.)
- Prescribed coursework based on performance on diagnostic examinations.
- Sufficient graduate coursework in chemistry (at the 400 level or above) and/or a related field to make an overall total of 30 hours, including one of the following sequences – 510-511-512; three of 530-531-532-533, 550-551-552, 570-572-573 and 590-594-595. At least 14 hours of this graduate coursework must be at the 500 level or above.
- A final oral examination.

DOCTOR OF PHILOSOPHY

CHEMISTRY MAJOR

Requirements

The requirements for the PhD in chemistry (except for the chemical physics concentration) consist of the satisfactory completion of the following requirements.

- Research and a dissertation to give at least 24 hours of graduate credit in Chemistry 600. Registration must be continuous from the beginning of research.
• Participation in seminar (Chemistry 501) during the entire period of graduate study, including the presentation of at least one seminar.
• Prescribed courses based on performance on diagnostic examinations.
• Completion of the cumulative examination series and defense of an original research proposal to give 2 hours of credit in Chemistry 601.
• 18 additional hours in courses at the 500 level or above including at least one course above 601 and one of the following sequences – 510-511-512; 530-531-532-533; 550-551-552-553-554; 570-571-572-573; 590-594-595.
• A final oral examination.

The PhD program with a concentration in chemical physics is conducted jointly with the Department of Physics. Requirements depend on the choice of the major department. Chemistry departmental requirements include passing the above degree requirements plus 6 additional hours in physics at the 500 level or above. Three of the additional physics hours can be used to satisfy the 18 hours requirement listed above.

Intercollegiate Graduate Minor in Computational Science

The Department of Chemistry participates in the intercollegiate graduate minor in computational science (IGMCS) program. Any student pursuing a master’s or PhD with a major in chemistry can receive a minor in computational science by completing the appropriate IGMCS requirements. For further information, see the description of the IGMCS listed under the Department of Electrical Engineering and Computer Science. The Department of Chemistry also contributes courses to the IGMCS program curriculum.

DEPARTMENT OF CLASSICS

http://web.utk.edu/~classics/

David W. Tandy, Head

Professors
Craig, C.P. (Lindsay Young Professor), PhD ............ North Carolina
Martin, S.D., PhD .................................................. Michigan
Tandy, D.W. (Distinguished Professor of Humanities), PhD ........ Yale

Associate Professor
Sutherland, E.H., PhD .............................................. Berkeley

Assistant Professors
Gruninger, C.D., PhD .............................................. Cornell
Laflerty, M.K., PhD ................................................... Toronto (Canada)
Sklenar, R.J., PhD ......................................................... Michigan
Van de Moortel, A., PhD ................................................. Bryn Mawr

Research Professors
Gessell, G.C., PhD ...................................................... North Carolina
Langdon, M.K., PhD ..................................................... Pennsylvania

Lecturers
Barteras, S., MA ................................................... Urbino (Italy)
Downey, S.J., PhD ...................................................... Toronto (Canada)

Adjunct Faculty
Dessel, J.P., PhD ......................................................... Arizona
Dzon, M., PhD ......................................................... Toronto (Canada)
Fitzgerald, J.L., PhD ...................................................... Chicago
Heffernan, T.J., PhD ................................................... Cambridge (UK)
Jones, D.W., PhD ......................................................... Chicago
Kulikowski, M., PhD ..................................................... Toronto (Canada)
Shaw, J.C., PhD .......................................................... Washington (St. Louis)
Shepardson, C., PhD ...................................................... Duke
Stiebert, J., PhD .......................................................... Glasgow (UK)

Students admitted to the Master of Arts with a major in anthropology may pursue a concentration in Mediterranean archaeology (see Department of Anthropology).

DEPARTMENT OF EARTH AND PLANETARY SCIENCES

http://geoweb.gge.utm.edu/

Hap McSween, Interim Head

Chris Fedo, Graduate Program Director

Professors
Broadhead, T.A. (Director, UT Undergraduate Academic Advancement), PhD ......................................................... Iowa
Dunne, W.M. (Associate Dean), PhD ................................ Bristol (UK)
Hatcher, Jr., R.D. (UT Distinguished Scientist), PhD ........ Tennessee
Labotka, T.C., PhD ......................................................... California Institute of Technology
McKay, L.D. (Jones Professor), PhD ........................................... Waterloo
McKinney, M.L., PhD ......................................................... Yale
McSween, H.Y. (Distinguished Professor of Science), PhD ........ Harvard
Mora, C.I. (Carden Professor), PhD ........................................... Wisconsin
Taylor, L.A. (Distinguished Professor of Science), PhD ........ Lehigh

Associate Professors
Baker, G.S. (Jones-Bibee Professor), PhD .......................... Kansas
Clark, G.M., PhD ......................................................... Penn State
Fedo, C.M., PhD ......................................................... Virginia Tech
Kah, L.C., PhD ........................................................... Harvard
Moersch, J.E., PhD ........................................................ Cornell
Perfect, E., PhD ........................................................... Cornell

Assistant Professors
Finkelstein, D.B. (Jones Professor), PhD ......................... Illinois
Jessup, M.J., PhD ......................................................... Virginia Tech

Lecturers
Deane, W., MS ......................................................... Tennessee
Sumrall, C.D., PhD ......................................................... Texas

MAJOR DEGREES

Geology
MS, PhD

MAJOR DEGREES

Geology
MS, PhD

The Department of Earth and Planetary Sciences offers both the Master of Science and Doctor of Philosophy degrees with a major in geology. Individuals interested in these programs should contact the Director of Graduate Admissions in the department and the faculty most closely related to the applicant’s research interests for information and application procedures.

Admission

For admission, an applicant must provide transcripts of previous university work, two rating forms or letters of recommendation, and GRE scores (general). Students are not normally admitted under non-degree status.

Prerequisite for either graduate degree is a bachelor’s degree in the geosciences or other field typically, but not exclusively, from the physical, natural, or life sciences or engineering. Upon admission each student is assigned an Advising Committee of three faculty members, which forms the initial point of contact for the student and which designs a curriculum of required coursework for the student. After a student’s research proposal is accepted, the Advising Committee is dissolved and a Thesis/Dissertation Committee is formed. The Thesis/Dissertation Committee is primarily responsible for advising the student’s research activities, but also can modify the course curriculum based on the student’s area of research.
DOCTOR OF PHILOSOPHY
GEOLOGY MAJOR

The prerequisite for the PhD program, in addition to that for the MS program, is either a master’s degree with a major in geology or a bachelor’s degree plus completion of 24 hours of graded coursework with at least one course from any three of the groups listed in the third bullet above. These courses may be taken while completing other course requirements.

Requirements

Successful completion of the PhD requires a minimum of 24 hours of graded course work beyond that required for the master’s degree, an additional 24 hours of dissertation credit, approval of a written dissertation proposal, completion of a comprehensive examination, and successful oral defense of a written dissertation. A minimum 3.0 GPA is required in all graduate course work, and taking courses from outside the department is encouraged. After a written dissertation proposal is approved, students are required to pass a comprehensive examination, which is usually taken by the end of the second year. The examination includes both written and oral components in which individuals are tested on their knowledge of their intended research area and related fields. The candidate is expected to be conversant across a wide range of the geological sciences. The written dissertation will demonstrate high-quality, original research by the student. Research results will be presented orally in a departmental seminar open to the public, and will be defended in a private defense restricted to the Dissertation Committee and interested departmental faculty.

DEPARTMENT OF ECOLOGY
AND EVOLUTIONARY BIOLOGY

http://leeb.bio.utk.edu/
Christine R.B. Boake, Head
Randall Smith, Associate Head
Nathan Sanders and Sandy Echternacht, Graduate Program Directors

Professors
Boake, C.R.B., PhD ............................... Cornell
Burghardt, G.M., PhD ............................ Chicago
Echternacht, A.C., PhD ............................ Kansas
Etnier, D.A., PhD ................................. Minnesota
Gavrillets, S., PhD ............................... Moscov State
Greenberg, N.B., PhD ............................ Rutgers
Gross, L.L., PhD ................................. Cornell
Harris, III, W.R., PhD ............................ Tennessee
Hallam, T.G., PhD ............................... Missouri
Hughes, K., PhD ................................. Utah
McC racken, G.R., PhD ............................ Cornell
Riechert, S.E. (Distinguished Service Professor), PhD .......................... Wisconsin
Saylor, G.S., PhD ................................. Idaho
Schilling, E., PhD ................................. Indiana
Schultz, E., PhD ................................. Indiana
Simberloff, D. (Gore Hunger Chair of Excellence), PhD .......................... Harvard

Associate Professors
Drake, J.A., PhD ................................. Purdue
Small, R., PhD ................................. Iowa State
Smith, D., PhD ................................. Tennessee
Wofford, B.E. (Curator of Herbarium), PhD .......................... Tennessee

Assistant Professors
Field, T., PhD ................................. Harvard
Fitzpatrick, B.M., PhD .......................... California (Davis)
Foydce, J.A., PhD ............................... California (Davis)
Gilchrist, M.A., PhD ............................ Duke
Hulsey, C.D., PhD ............................... California (Davis)
Schweitzer, J.A., PhD ............................ Stanford
Williams, J., PhD ............................... Georgia

Research Assistant Professors
Bailey, J.K., PhD ............................... Northern Arizona
Classen, A.T., PhD ............................... Northern Arizona

Shared faculty are drawn from other university departments, the Oak Ridge National Laboratory, the United States Geological Survey, and the Tennessee Valley Authority.

MAJOR DEGREES

Ecology and Evolutionary Biology
MS, PhD
Behavior concentration
Ecology concentration (including mathematical ecology)
Evolutionary biology concentration

Admission

Applications are accepted once a year. The deadline for receipt of all application materials is December 15 for those applicants wishing to enroll in the following fall or spring semesters. Applicants incomplete as of that date, or received after that date will not be considered. Applicants are expected to have an academic background consistent with a bachelor’s degree in one of the life sciences. They are expected to have completed a minimum of one year of general biology, two years of chemistry including one year of general chemistry, one year of physics, and one year of college-level calculus. Occasionally, applicants who are highly qualified otherwise but lack one of these courses or course sequences will be admitted with the expectation that the deficiency will be made up within the first year of graduate study. Applicants are required to submit scores from the general Graduate Record Examination (GRE) and successful applicants will usually have a composite score on the verbal, mathematical and analytical sections of the GRE of at least 1850. Submission of scores on appropriate (e.g., biology, mathematics) advanced GRE examinations is recommended but not required. Applicants are also expected to have an overall grade point average of at least 3.00 and 3.00 or above for all science and mathematics courses on a 4.00 scale (successful applicants will usually have grade-point averages well above these minima).

Take a prescriptive diagnostic examination during the first semester in residence which covers major concepts in ecology and evolutionary biology. The examination may
be taken twice and must be passed before the student is admitted to candidacy.

- Complete course requirements as determined by the department and the student's faculty thesis research committee.
- Satisfactorily complete and defend a research thesis.

DOCTOR OF PHILOSOPHY
ECOLOGY AND EVOLUTIONARY BIOLOGY
MAJOR

Requirements
In addition to general requirements of the Graduate Council, aspirants for the Doctor of Philosophy degree are expected to

- Take a prescriptive diagnostic examination covering major concepts in ecology and evolutionary biology. The examination may be taken twice and must be passed before the student is admitted to candidacy.
- Complete course requirements as determined by the department and the student’s faculty dissertation research committee.
- Pass a written and oral comprehensive examination designed to test for adequate knowledge in those areas essential to the student’s research program.
- Satisfactorily complete and defend a dissertation.

The department does not require a reading knowledge of a foreign language, but this may be imposed by the student’s faculty dissertation research committee. If so, the student has the option of demonstrating reading knowledge of the prescribed language by either (a) passing the official reading examination given by the language department or (b) earning a grade of at least a B in the second semester of a special language reading course for graduate students.

Environmental Policy Minor
The department participates in a program designed to give graduate students an opportunity to develop an interdisciplinary specialization in environmental policy. See Department of Political Science for program description.

DEPARTMENT OF ENGLISH

http://web.utk.edu/~english/
J. Charles Maland, Head
Allen Dunn, Graduate Program Director

Professors
Alwill, J.M. (Young Professor), PhD ......................... Purdue
Bellamy, E.J., PhD ....................................... Duke
Cox, D.R. (Executive Associate Dean), PhD ................. Missouri
Dumas, B.K., PhD ...................................... Arkansas
Dunn, A.R., PhD ....................................... Washington
Ensor, A.R., PhD ...................................... Indiana
Garner, Jr., S.B. (Young Professor), PhD .................. Princeton
Goslee, D.F., PhD ...................................... Yale
Goslee, N.M. (Alumni Distinguished Humanities Professor), PhD . Cambridge (UK)
Kallet, M. (Young Professor), PhD ......................... Rutgers
Keene, M.L. (John C. Hodges Teaching Professor), PhD .... Texas
Leki, I. (Hodges Brute Professor), PhD ....................... Illinois
Liuza, R.M., PhD ..................................... Maryland
Lofaro, M.A. (Young Professor), PhD ....................... Michigan
Papke, M.E. (Associate to the Chancellor), PhD .......... McGill (Canada)
Smith, A.E., PhD ...................................... Houston
Stillman, R.E., PhD ..................................... Pennsylvania
Wier, A., MFA ......................................... Bowling Green
Zomchick, J.P. (Associate Dean), PhD ....................... Columbia

Associate Professors
Anderson, M.G., PhD ..................................... Vanderbilt
Billone, A.C., PhD ....................................... Princeton
Elais, A.J., PhD ........................................ Penn State
Haddock, T.F., PhD ..................................... Vanderbilt
Hirschfield, H.A., PhD ................................... Duke
Hirst, R., PhD ........................................ Rensselaer Polytechnic
Howes, L.L., PhD ...................................... Columbia
Jennings, L.D., PhD .................................... North Carolina
Knight, M., MFA ......................................... Virginia
Reiff, M.J., PhD ......................................... Kansas

Assistant Professors
Coleman, D.D., PhD ...................................... Stanford
Dzon, M.C., PhD ........................................ Toronto (Canada)
Fishman, J.M., PhD ..................................... Stanford
Griffin, M., PhD ........................................ California (Los Angeles)
Hardwig, W.J., PhD ..................................... Florida
Schoenbach, L.M., PhD ................................... Virginia
Seshagiri, U., PhD ...................................... Illinois

Lecturers
Adams, A.J., PhD ........................................ Western Michigan
Brouwers, M.H., PhD ..................................... Tennessee
Bryan, R.A., PhD ........................................ Tennessee
Burton, J.C., PhD ....................................... State University of New York (Stony Brook)
Caleb, A.M., PhD ....................................... Sheffield (UK)
Capps, S.E., PhD ........................................ Tennessee
Craig, J.P., PhD ........................................ Iowa
Davis, H.R., PhD ....................................... Texas
Dolloff, M.K., PhD ....................................... Texas
Downey, S.J., PhD ....................................... Toronto (Canada)
Feldman, S.B., PhD ..................................... Buffalo
Goddard, K.C., MA ...................................... Tennessee
Hardwig, M.R., PhD ..................................... Tennessee
Harris, S.C., PhD ........................................ Tennessee
Havens, K.L., PhD ...................................... Tennessee
Heitwolf, J.K., PhD ..................................... Toronto (Canada)
Knox, L., MA ........................................... Indiana
Larsen, W.B., PhD ....................................... Tennessee
Mabee, F.P., PhD ......................................... Southern California
MacCartney, K.D., PhD .................................. Warwick (UK)
McCue, K., MA .......................................... Tennessee
McDowell, M.R., MA .................................... Tennessee
Mckinstry, D.K., PhD .................................... Tennessee
Melton-Sumner, S.E., PhD ................................ Tennessee
Meredith, E.G., MA ...................................... Tennessee
Murphy, S., PhD ....................................... George Washington
Newburn, H.F., PhD ..................................... Illinois (Carbondale)
Nicks, R.J.G., PhD ...................................... Florida
Peavler, J.L., MA ........................................ Tennessee
Pelletier, E.Y., PhD ...................................... Toronto (Canada)
Preston, N.H., PhD ...................................... Tennessee
Scaperoth, D.A., PhD .................................... Tennessee
Sheffield, C.L., MA ..................................... Radford
Spicko, R.L., PhD ....................................... North Carolina
Stafford, A.A., PhD ..................................... Pittsburgh
Vegso, R., PhD ........................................ State University of New York (Buffalo)
Wilhelm, R., PhD ....................................... Tennessee
Yost, R., MA ........................................... Tennessee

Writing Center Director
Benson, K.F., EdD ....................................... Tennessee

DEGREES

MA

English
Writing concentration

PhD

The Department of English offers the Master of Arts and the Doctor of Philosophy degrees with a major in English. Thesis and non-thesis options are available for the MA, as well as a special concentration in writing. The department also offers a creative writing dissertation option in the doctoral program.

Detailed information about the master’s and doctoral programs and individual graduate courses may be obtained by writing the Director of Graduate Studies in English, 306 McClung Tower. A prospective student may contact the department for application
forms and procedures or may download them from the departmental graduate Web site at http://web.utk.edu/~english/graduate.php. For additional information, please visit the graduate Web site through the College of Arts and Sciences home page at www.artsci.utk.edu.

The Department of English does not accept students in non-degree or provisional status. A student who wishes to enter the department must apply in degree-seeking status for his/her application to receive consideration for admission to any graduate program in English.

**MASTER OF ARTS**

**ENGLISH MAJOR**

**Requirements**

A minimum of 24 hours in English beyond the BA to include 6 hours at the 600 level; 12 additional hours at the 500-600 level (only 3 hours of 593 Independent Study may be applied toward the MA); and 6 hours for graduate credit at any level, including the 400-level. In this coursework, students must maintain at least a 3.00 GPA.

**Thesis Option**

Written under the direction of a faculty member of the department and approved by a committee of two other faculty members. Six hours of credit will be given.

**Non-Thesis Option**

Six hours of additional courses at the 500-600 level, making a total of 30 hours of required coursework.

**Language Requirement**

Evidence of proficiency in one foreign language to be fulfilled in one of the following ways:

- Completion of the second year of a language at college level with a grade of C or better.
- Completion of French 302 or German 332 at the University of Tennessee, Knoxville, with a grade of B or better.
- Passing of the regular PhD foreign language examination as currently administered at the University of Tennessee, Knoxville.

**Final Examination**

A candidate presenting a thesis must pass a 1-hour oral examination; a candidate presenting a creative project must pass a ninety-minute oral examination. The examination consists of a short thesis defense, but chiefly of questions covering the general history of English and American literature, not merely the coursework taken. A reading list of primary works designed to help the student prepare for these questions is available in the office of the Director of Graduate Studies in English.

A non-thesis student must pass a written examination, followed by a 1-hour oral examination, both consisting of the same sort of questions as the examination taken by the thesis student.

**Residence Requirement**

There is no residence requirement for the MA, but students should attempt to pursue a full-time program whenever possible.

**WRITING CONCENTRATION**

The master’s program with writing concentration is intended for those students who plan to do freelance or creative writing, specialize in teaching writing courses at the college level, work as professional editors or writers in business or industry, or pursue doctoral studies.

The requirements for the writing concentration are the same as those for the thesis option above with the following exceptions.

**Coursework**

Writing students may substitute two 400-level writing courses for two 500-level courses. Students must take at least 9 hours in writing and 9 in literature, the remaining 6 to be selected from any English courses at the proper level. Of the courses in writing, at least 3 hours must be taken at the 500 level; additional 500-level courses are strongly recommended.

**Writing Project**

One of the following writing projects for 6 hours of credit is required.

- A thesis, using research to analyze some aspect of writing or rhetorical theory.
- A creative project, such as a collection of poems or short stories, a short novel, a play, or a creative work of non-fiction prose.

The nature and length of each project will be determined by the Director of Graduate Studies in English after consulting with the student and the project director. In addition to the director, two other Department of English faculty members will supervise and approve the project; at least one should be from the literature faculty.

**Final Examination**

The reading list may be modified by the MA examining committee, meeting as a body with the student, to reflect the candidate’s particular writing emphasis. However, most of the oral examination should focus upon the literature outlined in the original reading list.

**DOCTOR OF PHILOSOPHY**

**ENGLISH MAJOR**

**Requirements**

A student must successfully complete a program of study, normally six full semesters as outlined below, approved by the candidate’s committee or the Director of Graduate Studies in English.

**Coursework**

At least 54 hours beyond the BA (of which at least 30 hours must be beyond the MA) to include at least 21 hours at the 600 level; at least 15 hours at the 500 level or above (only 3 hours of 593 Independent Study may be applied toward the MA and 3 after the MA); a 3-hour course in teaching composition; and 15 additional hours at any level approved for graduate credit (including a maximum of 12 hours at the 400 level if approved by the Director of Graduate Studies).

Up to 6 of these additional hours may be taken in some cognate field or fields such as history, philosophy, and French. These courses must be drawn from those approved for graduate credit. All other coursework must be in the English Department. In this coursework, students must normally maintain a 3.50 GPA.

**Dissertation**

Twenty-four hours of dissertation are required. These represent the research for and writing of the dissertation. The research and dissertation will be directed by a faculty member of the department and approved by a doctoral committee of three or four other faculty members.

**Language Requirement**

A language requirement met in one of the following ways.

- Two languages approved by the Director of Graduate Studies in English. The requirement for each language may be fulfilled by (a) completion of French 302 or German 332 with a grade of B or better; (b) completion at the University of Tennessee, Knoxville, of any two courses on the 300 level or above in the foreign language or literature with at least a grade of B in each course; (c) passing of the regular PhD foreign language examination as currently administered at the University of Tennessee, Knoxville.
- One modern language approved by the Director of Graduate Studies in English. This requirement must be fulfilled by a passing grade on the language examination given by the
University of Tennessee, Knoxville, and completion of two courses given in the foreign language at the 400 level or above, at least one course to be at the 500- or 600-level. A minimum grade of B must be received in each course.

- One modern language approved by the Director of Graduate Studies in English and intensive study of the English language. This requirement must be fulfilled by completion of (a), (b), or (c) for one foreign language; and completion of 6 hours in English language courses with grades of B or better, at least 3 of which must be from English 508 or 509 History of the English Language (offered in alternate years only). For the other 3 hours, the student may either complete the history of the language sequence or choose one other course in language taught in the Department of English at the 500 or 600 level and approved by the Director of Graduate Studies in English. These courses will not count toward the minimum number of courses for the PhD, and anyone electing this language option may not take the comprehensive examination in linguistics.

Examinations

- A first-year review conducted at the end of the first year of PhD coursework.
- A comprehensive examination which may be divided as the department directs (see the English Department graduate student Web site). The comprehensive examination is given twice a year, normally in March and September. Before a student may take it, he/she must have completed all required coursework. A student must also have met all requirements for foreign languages before beginning the first part of the examination.

Dissertation Defense

A one-hour examination on the dissertation and other related areas is required.

Residence Requirement

Two consecutive semesters as a full-time student are required. For students not on teaching assistantships, full-time consists of 9 or more hours of coursework and/or dissertation hours each semester. For students on assistantships, full-time consists of at least 6 hours of courses and/or dissertation hours and 3 hours of teaching each semester.

DEPARTMENT OF GEOGRAPHY

http://web.utk.edu/~utkgeog/
Shih-Lung Shaw, Head

Professors
Bell, T.L., PhD ........................................ Iowa
Foresta, R.A., PhD .................................. Rutgers
Harden, C.P., PhD ................................... Colorado
Horn, S.P., PhD ...................................... California (Berkeley)
Pulsipher, L.M., PhD ................................. Southern Illinois
Ralston, B.A., PhD ............................. Northwestern
Rehder, J.B., PhD ................................ Louisana State
Shaw, S.L., PhD ....................................... Ohio State

Associate Professors
Grissino-Mayer, H., PhD ........................... Arizona
Orvis, K., PhD ..................................... California (Berkeley)

Assistant Professors
Drever, A., PhD ...................................... California (Los Angeles)
Kalafsky, R., PhD ................................... New York (Buffalo)
Tran, L.T., PhD .................................... Hawaii

Adjunct Faculty
Gripshover, M.M., PhD ............................. Tennessee
Liu, C., PhD ........................................ Tennessee
Tankersley, R.D., PhD ............................. Tennessee
Zanetta, M.C., PhD ................................. Ohio State

MAJOR DEGREES

Geography

The master’s degree emphasizes development of professional competence as a geographer and offers opportunities to gain substantial depth in a concentration or a major technique. An emphasis in geographic information science is available for students who have appropriate backgrounds in mathematics and computer science. The doctoral program is for those who have demonstrated proficiency in conducting independent research. The department is particularly well-qualified to direct graduate work in location analysis, transportation geography, urban and rural geography, cultural ecology, and the geography of the natural environment (especially biogeography and geomorphology). The faculty is qualified to direct students from a variety of approaches ranging from historical and humanistic to rigorously analytic and GIS-based.

MASTER OF SCIENCE

GEOGRAPHY MAJOR

Requirements

The department offers the thesis and non-thesis options for the Master of Science. Both options require a minimum of 30 hours beyond the completion of a sound undergraduate major program. The MS program requires students to have some familiarity with key themes and approaches in both physical and human geography. At least two-thirds of the total hours in the degree program must be at or above the 500 level and must include 415, 501 (at each offering during residency), 504, and 3 hours at the 600 level. In the thesis option, 6 hours must be Thesis 500. A final examination is required in both programs.

DOCTOR OF PHILOSOPHY

GEOGRAPHY MAJOR

Requirements

Course requirements for the degree shall be determined by the student’s faculty committee in accordance with specific interests and needs. The program must include 415, 504, 515, 599, 9 hours of 600-level seminars, and (at each offering during residency) 501. A minimum of 9 hours must be earned in collateral fields, with courses selected for their relevance to the special fields. PhD students whose master’s-level work was in a field other than geography and for whom the master’s area remains close to their PhD specialty areas may petition to substitute geography hours in courses outside of their specialty areas for up to 3 of the 9 required outside hours. Competency in quantitative methods and basic human and physical geography is required. Additional tools, including languages, will be required as appropriate to the student’s areas of research specialization. Examinations required for admission to candidacy include a written comprehensive examination, comprised of two written examinations in which the student will be tested on his/her knowledge of two special fields and related areas of geography and an oral examination on the student’s program, the special fields and related areas, and the dissertation proposal. All parts of the written comprehensive examination should be taken within the same semester.

Environmental Policy Minor

The department participates in a program designed to give graduate students an opportunity to develop an interdisciplinary specialization in environmental policy. See Department of Political Science for program description.
Intercollegiate Graduate Minor in Computational Science

The Department of Geography participates in the intercollegiate graduate minor in computational science (IGMCS) program. Any student pursuing a master’s or PhD with a major in Geography can receive a minor in computational science by completing the appropriate IGMCS requirements. For further information, see the description of the IGMCS listed under the Department of Electrical Engineering and Computer Science. The Department of Geography also contributes courses to the IGMCS program curriculum.

DEPARTMENT OF HISTORY

http://web.utk.edu/~history/

Thomas E. Burman, Interim Head
Catherine Higgs, Interim Graduate Program Director

Requirements

Complete 510 and a 600-level research seminar normally during the fall and spring semesters of the first year in the graduate program. Complete 521 in preparation for the MA examination. As many as 9 related hours may be taken outside the department. As many as 9 graduate hours taken elsewhere may be applied toward the MA degree. Except by prior approval of the Director of Graduate Studies in History, a student’s coursework must be at the 500 level or above.

Thesis Option

Twenty-four hours of coursework and 6 hours of Thesis 500 for a total of 30 hours are required. Thesis students are required to select one MA field and write a thesis. At the end of the program the thesis student will take a two-hour oral examination on both the thesis and the field.

Non-Thesis Option

A total of 30 hours of coursework is required. At least 6 hours must be completed in each of two MA fields. The primary field is examined by a two-hour written exam followed within one week by a one-hour oral examination. The single grade of pass/fail will be given at the conclusion of the oral examination. No examination is given on the secondary field.

Master of Arts Fields

• United States (colonial to present).
• Premodern Europe.
• Modern Europe.
• Asia.
• Retention and Termination.

A 3.00 overall grade point average is required to remain in good standing. MA students must take the MA examination no later than the semester following the completion of 30 hours. A student who fails the MA examination must repeat the examination no later than the following semester. A student who fails the examination a second time or does not take the examination when required will be dropped from the graduate program.

DOCTOR OF PHILOSOPHY

HISTORY MAJOR

Admission

• Successful completion of the MA degree from an accredited institution.
• Acceptable scores on the Graduate Record Examination (general).

Requirements

Before being admitted to doctoral candidacy, a student must fulfill the following requirements.

• Complete History 510 at the University of Tennessee, Knoxville, (may be waived for comparable experience elsewhere).
• Spend two consecutive semesters in residence.
• Complete 9 hours in one Group I doctoral field. There is no minimum hours requirement for a Group II field. Complete 9 hours in one Group III field, including the appropriate 511, 512, or 513 course and two additional courses at the 500 level. The Group III field must be in a different geographic area from the Group II field. Courses taken to fulfill MA degrees may be counted toward all field requirements.
• Fulfill the foreign language requirement.
• Complete two 600-level research seminars. (One must be completed at the University of Tennessee, Knoxville.) Students who have completed a master’s thesis need com-
plete only one research seminar (must be taken at the University of Tennessee, Knoxville), and History 621.
- Maintain a 3.00 overall grade-point average in graduate work attempted.
- Complete 24 hours of graduate coursework (21 hours graded A-F) at the University of Tennessee, Knoxville, beyond that required for the MA. Up to 6 hours may be taken outside of the department.
- Except by prior approval of the Director of Graduate Studies in History, a student’s coursework must be at the 500 level or above.

Language Requirement

Students must demonstrate competence in one foreign language through coursework or examination. The student’s doctoral committee may specify any other languages or research tools, such as statistics, essential for the student’s preparation. The foreign language requirement must be fulfilled before taking the comprehensive examination.

Group III (Teaching Field) Examination

This is a one-hour oral exam that must be completed at any time before the comprehensive examination is taken. If a student fails the exam, he or she may retake the exam one time only and must do so the following semester. European and U.S. history courses may not be used for the Group III World History field.

Comprehensive Examination

The comprehensive examination consists of a written exam (Group I) and an oral exam (Group II) and must be taken no later than the semester following the semester in which the student completes the residence, coursework, and language requirement (summer excluded). Failure to take the comprehensive examination within the required time will be counted as a failure on the examination. No student will be permitted to take the comprehensive examination unless he or she has passed the Group III examination (see above) and has an overall grade point average of at least 3.00. Qualified students will be examined in one field selected from the Group I list below and one field selected from the Group II list below. The two exams are taken in the same semester. The Group I is an eight-hour written exam. It must be passed before the Group II can be taken. The Group II is a two-hour oral exam. A student who fails either exam must retake it the following semester (summer excluded). A second failure on either exam will cause the student to be dropped from the history graduate program. A student who does not repeat a failed exam within the required time will likewise be dropped from the program.

Admission to Candidacy

Upon successful completion of the above requirements, a doctoral student may be admitted to candidacy.

Doctoral Fields

Group I. Pre-modern Europe; Modern Europe; United States (colonial to present).

Group II. To be defined by the student’s doctoral committee from within one of the following fields.
- United States – Colonial and Early Republic; 19th century; 20th century; Regional; Military and Foreign Relations; Social and Cultural; American Political.
- European – Ancient; Medieval; Early Modern; Modern; Political and Diplomatic; Intellectual and Cultural; Social and Economic; National Fields; Gender.

Group III (Examined Teaching Field). World History; Western Civilization; U.S. Civilization.

Dissertation and Defense

Original research forms the basis for the dissertation. Doctoral candidates must register for a minimum of 3 hours of 600 Dissertation Research each semester and must complete 24 hours of dissertation credit. A final oral defense is given on the dissertation in its historical context. The program must be completed within eight years from admission as a potential candidate.

INTERDISCIPLINARY PROGRAMS

Robert J. Hinde, Associate Dean.
College of Arts and Sciences, Director

The College of Arts and Sciences offers a series of interdisciplinary undergraduate majors and minors through its interdisciplinary programs. These programs include Africana studies, American studies, Asian studies, cinema studies, comparative literature, environmental studies, global studies, Judaic studies, Latin American studies, linguistics, medieval studies, and women’s studies.

Certain courses within these programs are available for graduate credit as listed below. See the Undergraduate Catalog for program descriptions and directors.

LINGUISTICS

Ilona Leki, English, Chair

GRADUATE CERTIFICATE IN LINGUISTICS

The linguistics program offers a graduate certificate designed to meet the needs of individuals wishing to apply linguistics in various professional fields. It draws upon the strengths of faculty members in applied linguistics, sociolinguistics, and theoretical linguistics. The requirements focus upon the central aspects of the discipline of linguistics and aim to develop students’ basic knowledge and skills in the core disciplinary areas.

Upon successful completion of this program, students should have an understanding of the basic theoretical concepts and approaches of the discipline and have gained experience in the use of analytic and research techniques. It is also designed to meet the specific needs of those students who are preparing to teach foreign language at the high school/junior college level and/or to obtain advanced level proficiency in linguistics and cultural knowledge.

Prospective candidates for the certificate may take up to 6 hours of certificate classes before making application for admission to the certificate program. Once admitted to the program, they must maintain a GPA of at least 3.00. Application to the certificate program must be made to the Chair of the Interdisciplinary Linguistics Program by submitting a letter of application and copies of undergraduate transcripts (and graduate transcripts, if applicable). A minimum of 18 hours is required. All courses must be selected in consultation with a program advisor, who must approve all courses for individual students prior to their being taken, except that, as noted above, up to 6 hours may be accepted from candidates upon admission.

Requirements

Students will satisfy the requirements of the certificate program by selecting 18 hours from the following lists, provided that those courses are selected in consultation with a program advisor, who approves their selection. A certificate cannot be earned without program approval by the advisor.

- At least one of the following courses – Linguistics 423, 425, Modern Foreign Languages and Literatures 512.
- Additional courses from the following list for a total of 15 hours – Audiology and Speech Pathology 506, 601, English 508, 509, 680, French 421, 422, 510, German 510, 541, 631, 632, Linguistics 400, 411, 426, 435, 471, 472, 474, 476, 477, 485, 490, 575; Psychology 400, 543, 617, Spanish 421, 531, Statistics 531. Other courses may, where appropriate, be substituted for the courses listed above with the permission of the Chair of the Linguistics Program.
- A 3-hour capstone project, normally the preparation of a paper for presentation at a professional conference or for publication in a journal, planned and completed in consultation with a program advisor.
MEDIEVAL STUDIES
Robert Bast, History, Chair

GRADUATE CERTIFICATE IN MEDIEVAL STUDIES
The medieval studies program offers a graduate certificate enabling students with an interest in medieval topics to acquire a broad foundation in the interdisciplinary approaches to medieval research and to begin putting these approaches into practice. For students earning MAs or PhDs in traditional disciplines, the program will augment their training and may make them more attractive candidates for academic positions.

Prospective candidates for the certificate may take up to 6 hours of certificate classes before making application for admission to the certificate program. Once admitted to the program, they must maintain a GPA of at least 3.00. Application to the certificate program must be made to the Chair of the Medieval Studies Program by submitting a letter of application and copies of undergraduate transcripts (and graduate transcripts, if applicable). A minimum of 15 hours is required. All courses must be selected in consultation with a program advisor, who must approve all courses for individual students prior to their being taken, except that, as noted above, up to 6 hours may be accepted from candidates upon admission.

Requirements
Students will satisfy the requirements of the certificate program by selecting 15 hours from the following lists, provided that those courses are selected in consultation with a program advisor, who approves their selection. A certificate cannot be earned without program approval by the advisor.

• Medieval Studies 510.
• 12 additional hours chosen from at least two disciplines. A minimum of 6 hours must be taken in one discipline. Students may choose from the following courses – Art History 425, 431, 441, 451, 571, English 401, 402, 508, 513, 514, 610, 611, 620, 621, French 410, 540, German 541, History 531, Italian 401, 402, Philosophy 520, 620, Political Science 475, Spanish 531, 532. Topics and special topics courses, where appropriate, may be substituted for any of the above courses with the permission of the Chair of the Medieval Studies Program.
• Demonstration of competency in reading medieval Latin either by earning an A or B in Classics 435 or by passing the University of Toronto’s MA Medieval Latin exam, given on campus in fall and spring semesters. Where appropriate, students may substitute competency in reading medieval Greek, Hebrew, or Arabic. The chair of Medieval Studies, in conjunction with the Medieval Studies committee, will establish standards for determining competency in these languages as need arises.
• A non-credit capstone project, usually a paper. The paper should be interdisciplinary in its approach to its topic and may be an outgrowth of a seminar paper in another course. This capstone paper must be presented to an audience of Medieval Studies committee members and other interested faculty and graduate students before the certificate is granted.

WOMEN’S STUDIES
Cheryl Brown Travis, Psychology, Chair

GRADUATE CERTIFICATE IN WOMEN’S STUDIES
The women’s studies program offers a graduate certificate, enabling students to develop critical thinking about the economic, social, and legal factors influencing women’s roles in contemporary and historical societies and to evaluate those roles in the widest possible perspectives. Students may examine representations of women in the arts and the media, evaluate how science and medicine view women as objects of study, and study how women work as practitioners and researchers in these fields.

The program is designed to provide a supplementary perspective for students already enrolled in graduate programs, to provide an entry into graduate study for those who are exploring a number of disciplinary approaches, to provide enrichment for members of the community who have a bachelor’s or an advanced degree, and to develop skills for professionals in various fields.

Prospective candidates for the certificate may take up to 6 hours of certificate classes before making application for admission to the certificate program. Once admitted to the program, they must maintain a GPA of at least 3.00. Application to the certificate program must be made to the Chair of the Women’s Studies Program by submitting a letter of application and copies of undergraduate transcripts (and graduate transcripts, if applicable). A minimum of 15 hours is required. All courses must be selected in consultation with a program advisor, who must approve all courses for individual students prior to their being taken, except that, as noted above, up to 6 hours may be accepted from candidates upon admission.

Requirements
Students will satisfy the requirements of the certificate program by selecting 15 hours from the following lists, provided that those courses are selected in consultation with a program advisor, who approves their selection. A certificate cannot be earned without program approval by the advisor.

• Women’s Studies 510.
• 12 additional hours drawn from at least two different disciplines. For students enrolled in an MA program, no more than two of the certificate courses may be drawn from that program or the department in which the MA program is housed. Students are encouraged to select from courses at the 500 level and above. Students may choose from the following list – Anthropology 517; Cultural Studies in Education 512, 548, 608; English 584; Health 420, 520; Public Health 585; Law 849, 862, 958; Sport Studies 543; Women’s Studies 400, 410, 422, 425, 434, 469, 510, 543, 548, 593, 609.
• A capstone experience such as presenting research results to a professional group, submitting a work for publication, arranging an exhibit, or presenting a performance to a group approved by the individual advisor and the chair of Women’s Studies.

LIFE SCIENCES
(Interdepartmental)
John Kootz, Interim Chair

MAJOR DEGREES
Life Sciences
Genome science and technology concentration
Plant physiology and genetics concentration

The program leading to the Master of Science and Doctor of Philosophy degrees with a major in life sciences is interdepartmental and intercollegiate and is designed to augment offerings of individual departments in two concentrations – genome science and plant physiology and genetics.
and technology, and plant physiology and genetics. Students interested in these areas should contact either the Life Sciences chairperson or the director of the area of interest. Each concentration is administered separately and has unique admission requirements.

**GENOME SCIENCE AND TECHNOLOGY CONCENTRATION**

*Cynthia Peterson, Director*

The University of Tennessee-Oak Ridge National Laboratory Graduate School of Genome Science and Technology (GST) is a unique and multidisciplinary program for full-time graduate study leading to the Master of Science or Doctor of Philosophy degree. The program focuses on developments in the biological and computational sciences relating to genome sequences, and the program is designed to take advantage of collaboration of the University of Tennessee, Knoxville, and the Oak Ridge National Laboratory. Students are trained in emerging areas of genome science, with emphasis on mammalian genomics, structural biology, proteomics, computational biology and bioinformatics, and bioanalytical technologies. Scientists from both campuses participate in teaching. Research projects pursued for either the MS or PhD are mentored jointly by a faculty member from each campus. A year-long introductory course in Genome Science and Technology focuses on inquiry conducted on a genome-wide scale. Laboratory rotations during the first year offer students hands-on experience in a variety of focus areas.

Applicants are expected to have a background in the biological, physical, or computational sciences. Requirements for admission are one year of general biology or the equivalent; two years of chemistry, including one year of general chemistry and one year of introductory organic chemistry with laboratory; one year of calculus; one year of physics; at least 8 hours in cognate sciences related to the program; a combined GRE score of 1800 for the verbal, quantitative, and analytical sections is highly desirable; three letters of recommendation; and a minimum grade point average of 3.00 out of 4.00. Coursework in genetics, cell biology, and computer sciences is advantageous. Superior students, deficient in one or more of the above requirements, may be admitted at the discretion of the program admissions committee. Deficiencies will be made up as a part of the courses taken by the individual student.

Requirements for the PhD are satisfactory completion of the genome science and technology core courses, (Life Sciences 505, 515-516, 520-521, 540-541; Biochemistry and Cellular and Molecular Biology 511, 512; 522, 523); three semesters of GST laboratory, satisfactory completion of formal advanced courses in the areas of the student’s interest, passing both written and oral comprehensive examinations, a dissertation reporting the results of original and significant scientific research (a minimum of 24 hours of course 600 is required), a final oral/written examination on the dissertation, and a formal seminar presentation of the dissertation research. Participation in at least one seminar during each semester of residence after the first year is strongly recommended. The master’s degree requires a minimum of 30 hours of study approved by the student’s committee, a thesis, and an oral examination.

**Intercollegiate Graduate Minor in Computational Science**

The Graduate School of Genome Science and Technology participates in the intercollegiate graduate minor in computational science (IGMCS) program. Any student pursuing a PhD with a major in Life Sciences (genome science and technology concentration) can receive a Minor in Computational Science by completing the appropriate IGMCS requirements. For further information see the description of the IGMCS listed under the Department of Electrical Engineering and Computer Science. The Graduate School in Genome Science and Technology also contributes courses to the IGMCS program curriculum.

**DEPARTMENT OF MATHEMATICS**

http://www.math.utk.edu/  
Michael Frazier, Head
David F. Anderson, Graduate Program Director

**Professors**
- Alexiades, V., PhD .......................................... Delaware
- Anderson, D.F., PhD ......................................... Chicago
- Dobbs, D.E., PhD ............................................. Cornell
- Dyadak, J., PhD .............................................. Warsaw (Poland)
- Frazier, M., PhD .............................................. California (Los Angeles)
- Gavrilets, S., PhD ........................................... Moscow State
- Gross, L., PhD .............................................. Cornell
- Hinton, D.B., PhD ............................................ Tennessee
- Karakashian, O., PhD ...................................... Harvard
- Lenhart, S., PhD ............................................ Kentucky
- Mulay, S., PhD .............................................. Purdue
- Plaut, C.P., PhD .............................................. Maryland
- Richter, S., PhD ............................................. Michigan
- Rosinski, J., PhD ............................................ Wroclaw (Poland)
- Schaefer, P.W., PhD ....................................... Maryland
- Simpson, H., PhD ......................................... California Institute of Technology
- Soni, R.P., PhD .............................................. Oregon State
- Stephenson, K.R., PhD ................................... Wisconsin
- Thistlethwaite, M., PhD ................................... Manchester (UK)
- Wade, W.R., PhD ........................................... California (Riverside)
- Wagner, G.G., PhD ......................................... Duke
- Xiong, J., PhD .............................................. North Carolina

**Associate Professors**
- Chen, X., PhD ............................................... Rutgers
- Collins, C., PhD ............................................. Minnesota
- Denzer, J., PhD ............................................. ETH (Zurich)
- Freire, A., PhD .............................................. Princeton
- Schulze, T., PhD ............................................ Northwestern
- Todorova, G.H., PhD ..................................... Moscow State
- Tzermias, P., PhD .......................................... California (Berkeley)

**Assistant Professors**
- Brodsky, N., PhD .......................................... Saskatchewan (Canada)
- Conant, J., PhD ............................................. Rutgers
- Finotti, L., PhD ............................................. Texas
- Wang, C., PhD .............................................. Temple

**PLANT PHYSIOLOGY AND GENETICS CONCENTRATION**

*Otto J. Schwarz, Director*

This program provides the opportunity for intensive training and research experience in areas transcending the usual boundaries of botany, biochemistry, and agricultural plant sciences. Solutions of problems concerning the interactions of physiology and genetics in applied and fundamental aspects of plant science are the focus.

Admission requirements are a BA with a major in a biological, behavioral, or physical science; GRE (general) score; three letters of recommendation; and coursework including a year of calculus, (differentiable and integral), one year of chemistry, and a year of physics. Specific course deficiencies may be corrected during the first year.

Required courses are Life Sciences 510; Biochemistry and Cellular and Molecular Biology 511, 512; 522, 523; Plant Sciences 471 or Ecology and Evolutionary Biology 560; Microbiology 410. The master’s degree requires a minimum of 30 hours of study approved by the student’s committee, a thesis, and an oral examination. The minimum requirements for the doctoral degree include at least 6 hours above the 600 level, 24 hours of course 600, courses approved by the student’s committee, a comprehensive examination, a doctoral dissertation, and a defense of dissertation.
Lecturers
Baianomte, M., MS ........................................... Texas A&M
Bonee, K., MS ................................................. Tennessee
Caldwell, J., PhD ............................................. Illinois
Campbell, T., MM ............................................. Tennessee
Cook, T., MS .................................................. Tennessee
Fowler, J., MA .................................................. Kentucky
Gilbert, M., MS ................................................ Tennessee
Guest, R., MS .................................................. Baylor
Guldau, D., MS ................................................. Kentucky
Hagan, R., MS .................................................. Tennessee
Howard, J., MS ................................................. Tennessee
Huff, L., MS ..................................................... Tennessee
Kliliian, H., MS ................................................ Tennessee
Linwood, D., PhD ............................................. Courant Institute
Long, J., PhD ................................................... Michigan
McCler, M., MA ............................................. Murray State
Moseley, J., MM ................................................ Tennessee
Peery, M., MM .................................................. Tennessee
Pringle, K., PhD ............................................... Oregon
Reagan, R.D., MM ........................................... Tennessee
Remus, C., MS .................................................. Tennessee
Self, C., MS ..................................................... Tennessee
Smith, K., MM .................................................. Tennessee
Stein, D., MS ..................................................... Tennessee
Sukanek, K., MS .............................................. Mississippi
Szczenapki, A., PhD ........................................... California (San Diego)

MAJOR DEGREES
Mathematics MMath
Mathematics MS
Applied mathematics concentration PhD
Mathematics Mathematical ecology/evolution concentration

The Mathematics Department has three graduate degrees—the Master of Mathematics degree, intended primarily for teachers; the Master of Science degree, intended primarily for students for industrial employment and for teaching; and the Doctor of Philosophy degree, designed to prepare students for industrial employment and for college and university teaching and research. Contact the department office for additional information.

A graduate minor in mathematics requires at least 6 hours of resident graduate credit in courses numbered above 400. The courses must be approved by both the major department and the Department of Mathematics.

For additional information, please visit the Graduate Web site on the Department of Mathematics’ homepage at www.math.utk.edu.

MASTER OF SCIENCE
MATHEMATICS MAJOR

Requirements
Before admission to the Master of Mathematics program, the applicant must have either (a) certification for teaching secondary mathematics in at least one state, or (b) three years of elementary school, secondary school, or community college teaching experience. Applicants must have successfully completed one year of calculus (141-142 or equivalent) and a course in matrix algebra (251 or equivalent).

Requirements
The following requirements must be met.

• 30 complete hours of coursework of which 21 must be at the 500 level. The coursework must include 504, 505, 506, 507, and 6 hours in 509. At most, 6 hours may be taken outside the Department of Mathematics (selected in consultation with the advisor).

• Pass a final examination upon completion of all coursework.

In exceptional circumstances, part of admission requirement (b) might be satisfied concurrently with coursework. Normally, Master of Mathematics degree students will start the program by taking 504 during the summer.

APPLIED MATHEMATICS CONCENTRATION

Requirements
For this concentration, available under the thesis or the non-thesis option, the student must complete the following.

• Prerequisites – Mathematics 371, 471, or 472; 512 or both 431 and 435; 447-448 or 445-446; 453.

• One hour of Mathematics 519 or 589.

• One course from each of the following five areas.


5. Statistics – Mathematics 525, 527; Statistics 571; Ecology and Evolutionary Biology 560.

DOCTOR OF PHILOSOPHY
MATHEMATICS MAJOR

Requirements
For the PhD program in mathematics, the student must meet the following five requirements in addition to those of the Graduate Council.

• Demonstrate competency in advanced calculus and linear algebra by either a satisfactory performance on a diagnostic examination or by passing the appropriate 400-level course with a grade of B or better by the end of the student’s first year of graduate school. The appropriate course for advanced calculus is the 447-448 sequence and for linear algebra is the 457-458 sequence or 453.

• Satisfy either the standard program or the interdisciplinary mathematical ecology/evolution concentration. A student intending to work in mathematical ecology/evolution may complete either but is encouraged to complete the interdisciplinary mathematical ecology/evolution concentration.

• Satisfy the standard program or the interdisciplinary mathematical ecology/evolution concentration.

• Take at least two different one-semester research seminars and 599.

• Pass an examination in the field of specialization after requirements in bullets 1-3 have been met. This examination will be given by a committee appointed by the department head. A student may take this specialty examination no more than two times.

• Pass a one-year, 400-level sequence in mathematics outside the student’s area of specialization. The sequence selected to fulfill this requirement must be approved by the department head and the student’s doctoral committee.
These requirements must be completed no later than the start of the student’s seventh year (as a mathematics graduate student at UT).

**Standard Program**

A student must pass written examinations on two of the following year-long sequences – algebra (551-552), analysis (545-546), computational and applied mathematics (571-572), differential equations (535-536), stochastic (523-524), and topology-geometry (561-562). A student must pass one examination by the middle of his/her third year and both examinations by the middle of his/her fourth year. A student may not take any examinations after four failures.

In addition to the two year-long sequences chosen for the written examinations, a student must take four other one-semester 500-level courses from the following list grouped by examination area – algebra (551-552, 555-556), analysis (545-546, 545-547), computational and applied mathematics (571-572, 574, 576, 577, 578), differential equations (513-514, 515-516, 531-532, 535-536, 537-538, 581-582, 585), stochastic (521-522, 523-524, 525-526), and topology-geometry (561-562, 567-568). These four courses must contain a year-long sequence in an area different from the two written examinations and at least two areas different from the two written examinations.

A grade of B or better is required in each of the four courses, with at least a B+ in two of the courses.

**MATHEMATICAL ECOLOGY/EVOLUTION CONCENTRATION**

A student must pass written examinations on mathematical ecology (581-582) and one of the following year-long sequences – analysis (545-546), computational and applied mathematics (571-572), differential equations (535-536), and stochastic (523-524). A student must pass one examination by the middle of his/her third year and both examinations by the middle of his/her fourth year. A student cannot take any examinations after four failures.

In addition to the two year-long sequences chosen for the written examinations, a student must take four one-semester 500-level courses from the following list grouped by examination area – analysis (545-546, 545-547), computational and applied mathematics (571-572, 574, 576, 577, 578), differential equations (513-514, 515-516, 531-532, 535-536, 537-538, 581-582, 585), stochastic (521-522, 523-524, 525-526), and mathematical ecology/evolution (583). Ecology and Evolutionary Biology 509, 511, 512, 514. For the purposes of this requirement, the following pairs of Ecology and Evolutionary Biology courses count as a one-semester course – 509/514, 511/514, and 512/514.

These four courses must contain a year-long sequence in an area different from the two written examinations and at least two areas different from the two written examinations. A grade of B or better is required in each of the four courses, with at least a B+ in two of the courses.

**Intercollegiate Graduate Minor in Computational Science**

The Department of Mathematics participates in the intercollegiate graduate minor in computational science (IGMCS) program. Any student pursuing a master’s or PhD with a major in mathematics can receive a minor in computational science by completing the appropriate IGMCS requirements. For further information, see the description of the IGMCS listed under the Department of Electrical Engineering and Computer Science. The Department of Mathematics also contributes courses to the IGMCS program curriculum.
suitable research program and in the naming of a thesis or dissertation committee.

**MASTER OF SCIENCE**

**MICROBIOLOGY MAJOR**

The program leading to the MS is designed to provide the student with broad basic knowledge, to permit the acquisition of technical competence in the fundamentals of research, and to encourage creative and independent thinking. Two to three years are usually needed for the course of study.

Successful candidates for the Master of Science are expected to

- Complete course requirements as determined by the department and the student’s faculty thesis research committee.
- Satisfactorily present and orally defend a research thesis.

**DOCTOR OF PHILOSOPHY**

**MICROBIOLOGY MAJOR**

The program leading to the PhD is designed to develop the student’s ability to pursue independent and original research in microbiology and allied fields, to teach both oral and written communication of the results of research to the scientific community, and to train effective teachers. Students may enter the program after receiving either a bachelor’s or master’s degree. Students who enter with a bachelor’s degree usually receive the PhD after four or five years; those with a master’s degree usually take three or four years to complete the degree.

**Requirements**

Successful candidates for the Doctor of Philosophy are expected to

- Complete course requirements as determined by the department and the student’s faculty dissertation research committee.
- Satisfactorily present and orally defend a research dissertation.

**DEPARTMENT OF MODERN FOREIGN LANGUAGES AND LITERATURES**

http://web.utk.edu/~mfll/

Erec Koch, Head
Stefanie Ohnesorg, Graduate Program Director

**Professors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
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<tbody>
<tr>
<td>Arnold, M.N., PhD</td>
<td>Texas</td>
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<td>Bowden, H., PhD</td>
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<td>Dubreil, S., PhD</td>
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<td>Gimmel, M., PhD</td>
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<td>He, D., PhD</td>
<td>British Columbia (Canada)</td>
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<td>Horiguchi, N., PhD</td>
<td>Pennsylvania</td>
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<tr>
<td>Kong, K., PhD</td>
<td>Michigan</td>
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<td>Magilow, D.H., PhD</td>
<td>Princeton</td>
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<td>Stehle, M., PhD</td>
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**Assistant Professors**

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<tr>
<td>Ayo, A., PhD</td>
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<td>Blackwell, S.H., PhD</td>
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<td>Cano, L., PhD</td>
<td>Penn State</td>
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<tr>
<td>Cruz-Cámara, S., PhD</td>
<td>State University of New York (Buffalo)</td>
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<td>Kaplan, G., PhD</td>
<td>Pennsylvania</td>
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<tr>
<td>LaCure, J., PhD</td>
<td>Indiana</td>
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</tbody>
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**MAJORS DEGREES**

<table>
<thead>
<tr>
<th>Language</th>
<th>Degree</th>
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<tbody>
<tr>
<td>French</td>
<td>MA</td>
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<tr>
<td>German</td>
<td>MA</td>
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<tr>
<td>Spanish</td>
<td>MA</td>
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</tbody>
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**Modern Foreign Languages**

First concentration
- French
- German
- Spanish

Second concentration
- Applied linguistics
- French
- German
- Italian
- Latin American Studies
- Portuguese
- Russian
- Spanish

The Department of Modern Foreign Languages and Literatures offers graduate programs leading to the Master of Arts degree with majors in French, German and Spanish, and the Doctor of Philosophy degree with a major in modern foreign languages. Inquiries should be addressed to the graduate program director.

**MASTER OF ARTS**

**FRENCH MAJOR**

**Thesis Option**

- Completion of a minimum of 24 hours in coursework plus at least 6 hours in course 500 Thesis. French 501 is required. A maximum of 6 hours may be taken at the 400 level; the rest at the 500 level; and under certain conditions, the student may take 600-level seminars. If the student chooses to have a minor (such as Italian or Portuguese), at least 24 hours (including 6 hours of thesis) must be taken in the major and 6 hours in the minor.
- A thesis with a minimum of 6 hours in course 500.
- A written examination covering the coursework and selected items from a master reading list.
- A final oral examination covering the thesis.

**Non-Thesis Option**

- Completion of at least 30 hours with a maximum of 9 at the 400 level and the rest at the 500 level, including French 501. Under certain conditions, the student may take 600-level seminars. If the student chooses to have a minor (such as Italian or Portuguese), at least 24 hours must be taken in the major and 6 hours in the minor.
- A research paper from a course, which the candidate substantially expands with the approval of the committee.
- A written examination covering the coursework and selected items from a master reading list.
- A final oral examination to discuss the research paper.
DOCTOR OF PHILOSOPHY
MODERN FOREIGN LANGUAGES MAJOR

The PhD with a major in modern foreign languages requires advanced training in a major language (French, German, Spanish) and either a second language (French, German, Italian, Portuguese, Russian, Spanish), applied linguistics or Latin American Studies.

Admission

Applicants must have completed a BA in French, German or Spanish to be accepted into this program. Both graduates of institutions in the United States and those with undergraduate degrees from institutions outside the United States must have a grade point average of at least 3.00. Consideration will also be given to applicants who do not have an undergraduate degree in one of the three foreign languages but do have the equivalent of an undergraduate major in one of them.

Requirements

Candidates must complete a minimum of 63 hours of coursework beyond the bachelor’s degree in addition to 24 hours of doctoral research and dissertation.

For candidates with French or Spanish as a first concentration, two tracks are available.

- **Track I.** The coursework for Track I must be distributed as follows: at least 39 hours in the first concentration; at least 18 hours in the second concentration; and at least 6 hours in a cognate field or in either the first or second concentration as approved by the student’s graduate committee.
- **Track II.** The coursework for Track II must be distributed in this way: at least 45 hours in the first concentration; at least 12 hours in the second concentration; and at least 6 hours in a cognate field or in either the first or second concentration as approved by the student’s graduate committee.

- Please note: Graduate students who select Track II and do not combine their cognate field (6 hours) and the field of the second concentration (12 hours) will normally not be eligible to teach their field of the second concentration at institutions which follow SACS guidelines for college foreign language teaching. SACS requires a minimum of 18 graduate credit hours for eligibility to teach a given field at the college level. Students who choose to combine the second concentration (Track II) with the 6 hours in the cognate field will have a minimum of 18 hours in the field of the second concentration, and they will therefore be eligible to teach the field of the second concentration at institutions that follow SACS guidelines.

The coursework for all concentrations must be distributed as follows.

- **First Concentration: German.** A minimum of 39 hours of German courses beyond the bachelor’s degree, distributed as follows.
  - **400 level** – A maximum of 6 hours of 400-level classes taken for the MA may be applied.
  - **500 level** – A minimum of 21 hours must be taken. These must include Modern Foreign Languages and Literatures 512, German 519 and 560. Thesis hours are excluded. If Modern Foreign Languages and Literatures 512 is used as part of a second

GERMAN MAJOR

Thesis Option

The minimum requirements are 24 hours of coursework and 6 hours of Thesis 500. German 510 and 519 are required, as are three courses on German literature or culture, one of which may be at the 400 level. Also, students must take three additional courses, only one of which may be chosen from 411-412 or 485. All graduate teaching assistants should take Modern Foreign Languages and Literatures 512, and other candidates may take Modern Foreign Languages and Literatures 512 or any other course above 500 in German. A maximum of three 400-level courses may be counted toward the 24 hours of course credit. An exam over the designated reading list is required, as is a thesis defense and a standardized language exam, such as the Zentrale Mittelstufenprüfung. Students who are interested in future PhD-level study are strongly advised to choose the thesis option.

Non-Thesis Option

The minimum requirements are 30 hours of coursework, including at least one 600-level course for which a seminar paper is required. German 510 and 519 are required, as are three courses on German literature or culture, one of which may be at the 400 level. Also, students must take three additional courses, only one of which may be chosen from 411-412 or 485. All graduate teaching assistants should take Modern Foreign Languages and Literatures 512, and other candidates may take Modern Foreign Languages and Literatures 512 or any other 500-level course in German. A maximum of three 400-level courses may be counted toward the 30 hours of coursework. A common written exam over the designated reading list is required, as is a standardized language exam, such as the Zentrale Mittelstufenprüfung. Each non-thesis MA candidate will have a committee of three faculty members in German to whom the student will submit a dossier consisting of the seminar paper and one paper previously submitted in a graduate course. The length and type of the papers is described in greater detail in the Manual for Graduate Students in German.

SPANISH MAJOR

Thesis Option

- Completion of a minimum of 24 hours in coursework plus at least 6 hours in course 500 Thesis. Spanish 550 is required. A maximum of 6 hours may be taken at the 400 level; the rest at the 500 level; and under certain conditions, the student may take 600-level seminars. If the student chooses to have a minor (such as Italian or Portuguese), at least 24 hours (including 6 hours of thesis) must be taken in the major and 6 hours in the minor.
- A thesis with a minimum of 6 hours in course 500.
- A written examination covering the coursework and selected items from a master reading list.
- A final oral examination covering the thesis.

Non-Thesis Option

- Completion of at least 30 hours with a maximum of 6 at the 400 level and the rest at the 500 level, including Spanish 550. Under certain conditions, the student may take 600-level seminars. If the student chooses to have a minor (such as Italian or Portuguese), at least 24 hours must be taken in the major and 6 hours in the minor.
- Three term papers that have been accepted by the student’s advisory committee.
- A written examination covering the coursework and selected items from a master reading list.
The 18-hour concentration in Latin American Studies consists of the following requirements:

- Two courses (6 credit hours) at the 400 or 500 level in French, Portuguese, or Spanish, but outside of the student's first concentration language. Both classes must be taken in the same language area and need to be conducted in the target language.
- History 475 (Studies in Latin American History) (3 credit hours);
- Three additional graduate courses in at least 2 disciplines outside of the student's primary concentration. (e.g., Cinema Studies, French, History, Political Science, Portuguese, Sociology, Spanish). These courses must be approved by the student's graduate advisor, and at least one of these three courses (a minimum of three graduate credit hours) must be taken at the 500 level. Consult with the Chair of Latin American Studies for course selection and approval.

- **Cognate Field.** Six hours in graduate courses numbered 400 and above in a field outside the department or language family of the first concentration but related to the student’s principal area of research. Students choosing applied linguistics as a second concentration are strongly urged to take their cognate work in a second language, and students choosing Latin American Studies as a second concentration are required to take 6 graduate credit hours outside their primary concentration in either French, Portuguese or Spanish in lieu of the cognate area. Students who select applied linguistics, French, German, Italian, Portuguese, Russian, and Spanish as their area of concentration may seek the approval of their graduate committee to substitute the 6 hours in the cognate field by 6 hours in either the first or second concentration.

- **Additional requirements.** For any languages taken as a first or second concentration, a student must demonstrate competence by taking a test. The test will include reading, writing, listening, and speaking, and should be completed by the time the student reaches 40 hours of study beyond the bachelor’s degree. Standardized examinations that may be used for this purpose include applicable portions of either the National Teachers Examination, the MLA Examination for Teachers and Advanced Students, or the proficiency standards of the United States Foreign Service Institute (FSI).

For students choosing applied linguistics as an area of second concentration, reading competence in a second language is required. Competence will be determined by translation of a text from the foreign language into English, the test will be administered by the department.

A comprehensive examination must be passed before the student may be admitted to candidacy. The candidate is required to defend his/her dissertation in an oral examination. Central emphasis is put on the doctoral dissertation as a final test of the candidate’s scholarly qualifications.

Graduate Teaching Assistants with a second concentration in another language should have the opportunity and will be strongly encouraged to instruct in the languages of both their first and second concentration, subject to staffing needs.

Doctoral students are strongly encouraged to reside and study abroad and will be assisted in identifying potential sources of financial support (e.g., Fulbright, McClure, Rotary fellowships).
SCHOOL OF MUSIC
http://www.music.utk.edu
Roger L. Stephens, Director
Angela L. Batey, Associate Director for Graduate Studies

Professors
Brock, J.P., MM ............................................. Alabama
Coker, J., MA .................................................. Sam Houston
Jacobs, K.A., DMA ........................................... Texas
Leach, C.F., DM .................................................. Northwestern
MacMorrain, W., MM ........................................ Wisconsin
McClelland, D.K., MA ....................................... Columbia
Moore, M.C., PhD .............................................. Michigan
Northington, D.B., DMA ..................................... Yale
Pederson, D.M., PhD .......................................... Iowa
Sousa, G.D., PhD ............................................. Ohio State
Stevens, R., MM ............................................. East Carolina

Assistant Professors
Adams, F., MM ............................................. Tennessee
Baldwin, W., DMA ........................................... Maryland
Batey, A.L., DMA ........................................ South Carolina
Bender, S., DM .................................................. Florida State
Boling, M., MM .................................................. Tennessee
Brown, D.R. ...................................................... Memphis
Brunell, D., DM .................................................. Indiana
Carter, P.Z., MM ............................................... Colorado
Freeman, C., MPA ............................................. Oklahoma City
Gay, L., PhD ...................................................... California
Murphy, B.A., PhD .......................................... Ohio State
Royse, D., PhD .................................................. Kent State
Smith, C., BM ........................................ State University of New York (Fredonia)
Sper, G.R., MM .............................................. Indiana
Stephens, M.B., MA, MM ................................. Ohio State
Wentzel, A.N., MM ........................................... Southern California
Zelmannovich, M. ............................................ Livo (USSR)

Assistant Professors
Ali-Taei, N., PhD ........................................... California (Los Angeles)
Class, K., MM ............................................. Michigan State
Cloutier, D., MM ........................................ Carnegie Mellon
DiSimone, L., MM ........................................... New England Conservatory of Music
Fellenbaum, J., MM ........................................ Northwestern
Friso, C., DMA .................................................. South Carolina
Golden, R.M., PhD ......................................... North Carolina
Hawthorne, W.W., PhD ..................................... Cincinnati
Hernod, H., MM ............................................. Juilliard
Skoog, A., MA .............................................. Stephen F. Austin
Stewart, M., PhD ........................................... Ohio State

Lecturers
Brown, K., BA ............................................. Tennessee
Douglas, M., MM ........................................... Tennessee
Holloway, H., BM .......................................... Tennessee
McColough, S., MM ......................................... Tennessee

Part-time Lecturers
Dunne-Sousa, D., PhD ...................................... Ohio State
Hart-Still, K., BM ........................................... Tennessee
Ladd, K., PhD ............................................... Ohio State
Sechrist, P., MM .............................................. Yale
Thompson, D.V., MM ........................................ DePaul
Vincent, L., MM ........................................... Tennessee
Werner, W., MM ........................................... Tennessee

MAJOR DEGREE

Music
Accompanying concentration
Choral conducting concentration
Composition concentration
Instrumental conducting concentration
Jazz concentration
Music education concentration
Music theory concentration (optional emphasis in music technology)
Musicology concentration
Pedagogy concentration (piano or vocal)
Performance concentration (organ, percussion, piano, strings, voice, or winds)

Mission Statement

The mission of the School of Music is to provide the highest quality instruction in the musical arts and to cultivate creative activity and research in the areas of composition, education, musicology, pedagogy, performance, and theory. As part of its mission, the school enriches the musical and educational lives of its students, the university community and citizens of Tennessee. In support of this mission, the school’s curricula and course offerings are designed to:

• Develop technical and artistic abilities in performance.
• Foster individual and collaborative work.
• Promote an understanding of theoretical, historical and cultural studies of music.
• Provide skills in teaching and the knowledge of educational principles.
• Encourage interpretive, creative and scholarly expression. Such preparation enables students to be competitive in music careers and related fields and to continue study at an advanced level.

To foster a greater understanding of music, the faculty regularly engage in artistic, educational, and scholarly activities through performances, workshops, publications, and participation in professional organizations.

The school fulfills its service mission to enrich the educational and cultural life of the university community at large by offering a broad range of courses, performance opportunities, as well as public concerts, recitals, and musical productions.

The school also aims to promote a greater understanding of cultural diversity among faculty and students; build a diverse student and faculty community; and offer curricula that require students to engage with the musical richness of our world and develop their own musical identities within an increasingly interconnected globe.

MASTER OF MUSIC

MUSIC MAJOR

Applicants must have completed an undergraduate degree that is approximately equivalent in music requirements to degrees conferred by the University of Tennessee, Knoxville, with a major appropriate to the applicant’s prospective area of concentration on the master’s level.

Applicants who plan to pursue the concentration in performance or music education are required to audition for the appropriate area faculty. Applicants for admission to the program in composition must submit scores and tape recordings of representative works. Applicants for the concentration in jazz, if appropriate, must audition in jazz improvisation and jazz piano proficiency and interview with members of the faculty in this area. Other applicants are required to have an interview with members of the faculty of the prospective area of concentration.

All entering master’s degree students are required to take diagnostic examinations in music theory, ear-training, and music history/literature. These examinations are given by the School of Music at the beginning of each semester.

Requirements

A minimum of 33 hours of coursework is required for the Master of Music degree. These hours are specifically distributed according to the area of concentration. All concentrations require coursework in music bibliography, music history/literature and music theory and allow for elective courses. Specific curricula are available from the school. All concentrations require a written and oral final examination.

A thesis is required of students in composition, musicology, and music theory. A graduate recital or performance project is
given in lieu of thesis by students with concentrations in performance, pedagogy, jazz, accompanying, choral conducting, and instrumental conducting.

The concentration in music education is designed for persons who hold a bachelor’s degree in music or music education and certification to teach music in the public schools. Both thesis and non-thesis options are available.

**ARTIST CERTIFICATE IN MUSIC**

The Artist Certificate in Music is a full-time graduate performance program designed to prepare the most talented, outstanding keyboard and string performers for careers as professional performing musicians. Students accepted into this certificate program must demonstrate the ability to perform advanced repertoire with technical and artistic mastery and have the potential for success at major competitions or auditions for major orchestras, or want to begin a professional career. Students will take courses that build the repertoire, artistry, and performance skills necessary for a professional performer.

**Admission**

Applicants to this graduate certificate program must hold a minimum of the bachelor’s degree or equivalency, and follow the procedures and regulations for applying for admission to graduate study at the University of Tennessee, Knoxville, and the Graduate Division of the School of Music. Required credentials for admission to the School of Music include an application, university application fee, official transcripts of all post-secondary studies, two letters of recommendation, and a repertoire list. Students whose first language is not English must submit TOEFL results of 550 (paper-based test), 213 (computer-based test), or 80 (Internet-based Test) or higher to be considered for admission.

Final admission to the certificate program is granted following successful completion of a thirty-minute admission audition. The audition repertoire should include selections demonstrating the student’s ability to perform in various musical styles. If distance to the audition is a hardship, applicants may submit a thirty-minute videotape/DVD (public performance preferred). The student must also present a live audition before a designated faculty committee during the first semester of residence.

Once accepted, all students are required to take the diagnostic examinations in musicology, area literature, music theory, and ear training before registering for courses. The examinations are given on the first day of registration each semester, beginning at 9:00 a.m. and concluding at approximately 4:00 p.m. Each entering student should notify the graduate secretary to indicate the semester that s/he intends to enter and take the examinations.

**Program of Study**

Students may specialize in string or keyboard performance. To receive the artist certificate in music, the student must successfully complete an artist certificate curriculum of at least 19 hours (see School of Music Graduate Handbook, available in 211 Music Building) with a cumulative GPA of 3.00 or better. The curriculum is centered on intensive activities related to performance, including private lessons, large and small ensembles, recitals, and courses in area literature, performance practices, and repertoire. Courses chosen for music electives should be lecture courses. All required recitals are to be performed in public with a committee of the School of Music faculty in attendance. Enrollment for a minimum of two semesters is required with a maximum of two years allowed for completion of the program. The School of Music may require additional hours. All course requirements must be completed at the University of Tennessee, Knoxville.

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**DEPARTMENT OF PHILOSOPHY**

http://web.utk.edu/~philosophy/

John R. Hardwig, Head

Denis Arnold, Graduate Program Director

**Professors**

Aquila, R.E., PhD ........................................ Northwestern
Graber, G.C., PhD ........................................ Michigan
Hardwig, J.R., PhD ........................................ Texas
Noll, J.E., PhD ............................................. Ohio State

**Associate Professors**

Arnold, D., PhD ............................................. Minnesota
Hamilin, H.P., PhD ......................................... Georgia
Reidy, D.A., JD, PhD ......................................... Kansas

**Assistant Professors**

Coffman, E.J., PhD ........................................ Notre Dame
Douglas, H., PhD ............................................ Pittsburgh
Shaw, J.C., PhD ........................................... Washington (St. Louis)

**Adjunct Faculty**

Beasley, A.D., MD ........................................ Tennessee
Dunn, A.R., PhD ............................................ Washington
English, M.R., PhD .......................................... Tennessee
Reynolds, C.H., PhD ....................................... Harvard
Wagner, C.G., PhD ......................................... Duke

**MAJOR DEGREES**

**Philosophy MA**

Religious studies concentration

**Philosophy PhD**

The MA program includes thesis and non-thesis options and offers a concentration in religious studies. Detailed information may be obtained from the Director of Graduate Studies in Philosophy. Details concerning the religious studies concentration may be obtained from the Director of Graduate Studies in the Department of Religious Studies.

**MASTER OF ARTS PHILOSOPHY MAJOR**

**Requirements**

**Thesis Option**

The course requirements for an MA with thesis are 30 hours, including 6 hours in Philosophy 500. Of non-thesis hours, at least two-thirds must be in courses at or above the 500 level. See the department’s graduate student handbook for more specific details.

**Non-Thesis Option**

The non-thesis MA requires 30 hours of coursework of which at least two-thirds must be in courses at or above the 500 level. Students seeking the non-thesis option must also pass a final written examination on all work offered for the degree. An additional oral examination may be required. As a part of the master’s degree, and in addition to a final comprehensive examination, a culminating (capstone) experience is expected. Examples of culminating experiences include presenting a paper at a refereed national or regional philosophy conference or presenting a paper at a departmental colloquium.

**DOCTOR OF PHILOSOPHY PHILOSOPHY MAJOR**

**Requirements**

Students will ordinarily hold an MA with a major in philosophy or an equivalent degree when entering the PhD program. However, highly qualified applicants without an advanced degree may be admitted directly to the PhD rather than MA program if that is their preference. For students taking an MA in our department, 24 hours of additional coursework beyond those applied to the MA degree are required. For students admitted directly into the program without an advanced degree, 48 hours of
coursework are required. For those admitted with advanced degrees in other fields, the number of hours required will be determined by the Graduate Committee. In all cases, this does not include credit hours for work on the dissertation (Phil 600) and the student's dissertation committee may require additional coursework at its discretion. See the department's graduate student handbook for more specific requirements.

Students must normally demonstrate a reading knowledge of one living foreign language in which there exists a significant body of philosophical literature. (In special circumstances relating to the area of dissertation research, the Graduate Committee may approve a language not satisfying these conditions or the requirement of a foreign language may be waived in favor of other appropriate research skills, if approved by the Graduate Committee upon recommendation by the Director of Graduate Studies.)

DEPARTMENT OF PHYSICS AND ASTRONOMY

http://www.phys.utk.edu/
Soren P. Sorensen, Head
Marianne Breinig, Director of Graduate Program

Professors
Barnes, F.E. (Joint Faculty), PhD ........................................ California
Bingham, C.R., PhD ....................................................... Tennessee
Blas, W.E., PhD .......................................................... Michigan State
Breinig, M.J., PhD ......................................................... Oregon
Compton, R.N., PhD ....................................................... Tennessee
Crater, H.W. (UTSI), PhD .................................................. Yale
Dagotto, E.R. (Distinguished Professor), PhD ................. Bariloche (Argentina)
Dai, P., PhD ................................................................. Missouri
Davis, L. (UTSI), PhD ....................................................... Auckland (New Zealand)
Eguilluz, A.G. (Joint Faculty), PhD ..................................... Brown
Elston, S.B., PhD .......................................................... Massachusetts
Greene, J.L. (Joint Faculty), PhD ....................................... Harvard
Guidry, M.W., PhD .......................................................... Tennessee
Handler, T., PhD ......................................................... Rutgers
Kamychkov, I., PhD ....................................................... ITEP (Russia)
Levin, J.C., PhD ........................................................... Oregon
Macek, J. (Distinguished Professor), PhD ...................... Rensselaer Polytechnic
Moreo, A. (Joint Faculty), PhD ........................................ Bariloche (Argentina)
Nazarewicz, W., PhD .................................................... Warsaw (Poland)
Painter, L.R. (Special Assistant to the Chancellor), PhD ...... Tennessee
Plummer, E.W. (Distinguished Professor), PhD .............. Cornell
Quinn, J.J. (Lincoln Chair), PhD ......................................... Maryland
Read, K.F. (Joint Faculty), PhD .......................................... Cornell
Riedinger, J.L. (Interim Vice Chancellor for Research), PhD . Vanderbilt
Siopsis, G. ................................................................. California Institute of Technology
Sorensen, S.P., PhD ....................................................... Copenhagen (Denmark)
Thompson, J.R., PhD ..................................................... Duke
Weitinger, H.H. (Joint Faculty), PhD ......................... Groningen (Netherlands)
Zhang, Z. (Joint Faculty), PhD ........................................... Rutgers

Associate Professors
Efremenko, Y.Y. (Joint Faculty), PhD ......................... ITEP (Russia)
Grzywacz, R., PhD .......................................................... Warsaw (Poland)
Parigier, C. (UTSI), PhD ................................................. Otago (New Zealand)

Assistant Professors
Barzynski, V., PhD .......................................................... Illinois
Cardall, C.Y. (Joint Faculty), PhD ...................................... California
Jones, K.L., PhD .......................................................... Surrey (England)
Mannella, N., PhD ........................................................... California (Davis)
Papenbrock, T.F. (Joint Faculty), PhD ......................... Heidelberg (Germany)
Spanier, S.M., PhD .......................................................... Mainz (Germany)

Director of Undergraduate Laboratories
Parks, J.E., PhD ............................................................ Kentucky

MAJOR PHYSICS DEGREES

MAJOR: PHYSICS

Astrophysics concentration
Atomic, molecular, optical, and low temperature physics concentration
Biophysics concentration
Chemical physics concentration
Condensed matter and surface physics concentration
Elementary particle physics concentration
Geophysics concentration
Health physics concentration
Mathematical and computational physics concentration
Nuclear and relativistic heavy ion physics concentration
Theoretical physics concentration

Physics PhD

Astrophysics concentration
Atomic, molecular, optical, and low temperature physics concentration
Biophysics concentration
Chemical physics concentration
Condensed matter and surface physics concentration
Elementary particle physics concentration
Mathematical and computational physics concentration
Nanomaterials concentration
Nuclear and relativistic heavy ion physics concentration
Theoretical physics concentration

Departmental graduate programs leading to the MS and the PhD are also available at the University of Tennessee Space Institute, Tullahoma, where opportunities for study and research are available in laser applications, quantum and applied optics, laser spectroscopy, fluid physics, medical physics, computational physics, and theoretical physics. For additional information, contact the department head.

Admission

A student who enrolls in graduate study with the intention of attaining an advanced degree in physics will have completed an undergraduate major in physics or its equivalent. Physics 311-312, 321, 361, 431-432, 421, 461, and 411-412 constitute the minimum courses prerequisite to graduate study.

A student who intends to present physics as a graduate minor will have completed an undergraduate minor in physics or its equivalent. Physics 311 and 431-432 constitute the minimum coursework prerequisite to a minor in physics.

In addition to meeting the Graduate Council's minimum requirements, applicants are strongly encouraged to submit scores from the Graduate Record Examination (general and subject).

All first-year graduate students are required, for advising purposes only, to take a diagnostic examination in undergraduate physics during the fall semester registration period.

MASTER OF SCIENCE PHYSICS MAJOR

Requirements

Thesis Option

The course requirements include 24 hours of physics courses, of which at least 12 hours are taken from Physics 506, 511-512 or 513-514, 521-522, 531, 541, 571, 573. Each candidate must present an acceptable thesis, 6 hours of 500, and pass an oral examination on course material and thesis.

Geophysics concentration. The department offers an MS thesis program with a concentration in geophysics. Program requirements are 12 hours from Physics 506, 513-514, 521-522, 531, 541, 571, 573; a minimum of 12 additional hours in geology, geophysics, and/or physics, as approved by the student’s committee; and the presentation of an acceptable thesis, 6 hours of Physics 500, and the passing of an oral examination on course material and thesis.

Project Option

The course requirements include a minimum of 30 hours of graduate credit in courses composed of Physics 506, 511-512; 6 hours from Physics 593, 594 for a Project in Lieu of Thesis; 9 hours from 411-412, 421, 431-432, 461-462, 507, 508, 521-522, 531, 541, 555, 571, 573 (at least 3 hours above the 500 level); and 6 hours from a single minor field outside of the Physics Department, such as computer science, mathematics, engineering, chemistry, biology, education, business, or law.
The candidate must pass an oral examination on course material and on the project representing the culmination of an original research project completed by the student. A written report must be approved and accepted by the Physics Graduate Committee and the department head. An electronic version of the written report must also be submitted to the permanent electronic archive of the Physics Department available on the Internet.

Non-Thesis Option

Students seeking the non-thesis option must apply to the department’s graduate committee for permission to enroll under this program. The requirements are the satisfactory completion of 30 hours of coursework composed of 18 hours from Physics 506, 511-512 or 513-514, 521-522, 531, 541, 571, 573; 6 hours in a minor field; and 6 hours from other courses numbered above 400 (preferably of advanced laboratory nature.) At least 20 hours must be taken at the 500-level or above. In addition, the candidate must pass a written examination administered by his/her committee.

DOCTOR OF PHILOSOPHY

PHYSICS MAJOR

Requirements

All students are expected to take the graduate core curriculum in physics consisting of Physics 521-522, 531, 541, 551, and 571. Students concentrating in chemical physics may substitute Chemistry 572 for Physics 551 and should complete at least 6 hours from Chemistry 530, 570, 571, 573, 595, 630, 670, and 690. Students must take a minimum of 15 hours of 600-level courses with 6 of these hours in their concentration area. Physics 601-602 are normally required of students concentrating in atomic physics; Physics 621-622 of students in nuclear physics; Physics 626-627 of students in elementary particle physics (and/or Physics 611-612 for students concentrating in theoretical elementary particle physics); Physics 615-616 of students in astrophysics and cosmology; and Physics 671-672 of students in condensed matter and surface physics.

Students concentrating in nanomaterials must take a minimum 15 hours of 600-level courses, of which at least 6 hours are offered by the department and at least 6 hours are from a list of courses offered by several departments which are appropriate for a concentration in nanomaterials. This list is available from the Director of the Graduate Program. In addition to the departmental core curriculum listed above, they must take additional courses at the 400- through 500-level, with at least 6 hours offered by the department and 6 hours from the list.

To be admitted to PhD candidacy, students must fulfill all general requirements of the Graduate Council; pass the qualifying examination; have at least a 3.00 GPA on the graduate core curriculum in physics; form a doctoral committee; and pass the comprehensive examination.

The qualifying examination is designed to test the student’s general knowledge of the fundamentals of physics. The performance needed to pass this examination corresponds to a mature command of the material typically included in the undergraduate physics major curriculum. The qualifying examination should be passed after the student’s first year of study. Based on the student’s performance on the qualifying examinations, the coursework, the GRE scores, and optional research participation, the faculty will decide if the student will be allowed to continue in the PhD program.

Students are required to find a research advisor and form a doctoral committee before the end of the second year of study. This committee is responsible for advising the student and monitoring his/her progress toward the doctoral degree.

The comprehensive examination is designed to test the student on specific knowledge and skills in the areas essential to the student’s research program; on capability to successfully complete the doctoral dissertation; and on general knowledge of the graduate core curriculum. The most essential component of this examination is the presentation and defense of an original research proposal. The comprehensive examination must be passed before the end of the third year of study. It contains both written and oral component and is conducted by the student’s doctoral committee and an additional faculty member appointed by the department head.

The dissertation topic will be chosen with reference to one of the fields in which research facilities can be made available either at the University of Tennessee laboratories in Knoxville; the University of Tennessee Space Institute at Tullahoma, Tennessee; the Oak Ridge National Laboratory, Oak Ridge, Tennessee; or at other research facilities used by the university faculty.

Intercollegiate Graduate Minor in Computational Science

The Department of Physics and Astronomy participates in the intercollegiate graduate minor in computational science (IGMCS) program. Any student pursuing a master’s or PhD with a major in Physics can receive a minor in computational science by completing the appropriate IGMCS requirements. For further information, see the description of the IGMCS listed under the Department of Electrical Engineering and Computer Science. The Department of Physics also contributes courses to the IGMCS program curriculum.

DEPARTMENT OF POLITICAL SCIENCE

http://web.utk.edu/~polisci/

John Scheb, Interim Head
Robert Gorman, Graduate Coordinator

Professors

Cunningham, R.B., PhD ........................................ Indiana
Fitzgerald, M.R., PhD ......................................... Oklahoma
Folz, D.H., PhD .................................................. Tennessee
Freeland, P.K., PhD ............................................ Wisconsin
Gant, M.M., PhD .................................................. Michigan State
Gorman, R., PhD .................................................. New York
Lyons, W., PhD ...................................................... Oklahoma
Scheb, J.M., PhD ................................................. Florida
Stephens, Jr., O.H. (Alumni Distinguished Service Professor), PhD .............................................. Johns Hopkins
Tonn, B., PhD ....................................................... Northwestern

Associate Professors

Houston, D.J., PhD .................................................. State University of New York (Binghamton)
Nownes, A.J., PhD .................................................. Kansas

Assistant Professors

Brule, D.J., PhD ..................................................... Texas A&M
Down, I., PhD ...................................................... North Carolina
Hwang, W., PhD ................................................... Michigan State
Jepson, E., PhD ..................................................... Wisconsin
Kelly, N., PhD ...................................................... North Carolina
Morgan, J.M., PhD ................................................. North Carolina

MAJORS

Planning

DEGREES

MSP

Environmental planning concentration
Land use planning concentration
Political science concentration
Public administration concentration
Real estate development/economic development concentration
Transportation planning concentration
Urban design concentration

Political Science

MA, PhD

Public Administration

MPA, JD-MPA

The Department of Political Science offers the Master of Arts, Master of Public Administration, Master of Science in Planning, and Doctor of Philosophy. The department also offers a dual program with the College of Law. Inquiries concerning all programs should be directed to the departmental office.
Admission

Three departmental recommendation forms must be submitted to the Department of Political Science, at least two of which must be completed by instructors at the institution most recently attended. In addition, scores on the general portion of the Graduate Record Examination must be submitted.

MASTER OF ARTS

POLITICAL SCIENCE MAJOR

Admission

A bachelor’s degree or its equivalent is required for admission. Normally an overall average of 3.00 is also required together with an average of 3.20 in the last two years of political science or social science. In addition, a composite score of at least 1100 on the verbal and quantitative parts of the GRE is normally required.

Requirements

Thesis Option (30 hours)

Coursework, preparation of a thesis, and an oral examination on coursework and the thesis, are required. At least 12 hours must be in political science, with 6 in the field of methodology (Political Science 510 and either 511 or 512). Six hours may be earned through thesis credit.

Non-Thesis Option (36 hours)

Coursework, and a written comprehensive examination on all coursework are required. At least 12 hours must be in political science with 6 in the field of methodology (Political Science 510 and either 511 or 512) and 3 hours in the 600-level research seminar in the student’s first field of interest.

MASTER OF PUBLIC ADMINISTRATION

PUBLIC ADMINISTRATION MAJOR

The MPA program is intended to prepare students for public service careers by acquainting them with management principles, analytical tools, and the ethical dilemmas they will face as public administrators. It consists of a total of 39 hours, including a core program, an elective specialization and a recommended internship.

Admission

Applicants for admission to the program must have a bachelor’s degree or its equivalent. Normally, an overall average of 3.00 and an average of 3.20 in the last two years of political science or social science courses are required. In addition, a composite score of 1100 on the verbal and quantitative parts of the GRE is desired.

Students must demonstrate proficiency in the use of software applications for the personal computer. This requirement can be fulfilled by achieving a satisfactory grade in Political Science 596. Exceptions to this requirement will be considered on an individual basis.

Requirements

The MPA is a non-thesis program requiring 39 hours. Specific requirements include the following.

Core Curriculum (24 hours)

General Perspectives (9 hours) – 550, 552, and one from 442, 539, 540, 548, 558, or 566.

Analytical skills (6 hours) – 512, 514.

Management skills (9 hours) – 560 and two from 556, 562, 564.

Specialization (9 hours) – A specialization is designed by the student in consultation with the coordinator of the MPA program. Possible specializations include general government, public health, budgeting and finance, planning, natural resources, program evaluation, criminal justice, public relations, personnel, and others.

Recommended Internship (6 hours) – Internships are arranged in consultation with the coordinator of the MPA program.

Final Examination – A written final examination, which may be followed by an oral examination, is required.

DUAL JD-MPA

The College of Law and the Department of Political Science in the College of Arts and Sciences offer a coordinated dual degree program leading to the conferral of both the Doctor of Jurisprudence and Master of Public Administration degrees. In this program, a student may earn the MPA and JD in about four years rather than the five years that otherwise would be required. Students pursuing the dual degree program should plan to be enrolled in coursework or an internship for one summer term in addition to taking normal course loads for four academic years.

Admission

Applicants for the JD-MPA program must make separate application to, and be independently accepted by, the College of Law for the JD and the Department of Political Science and the Office of Graduate and International Admissions for the MPA degree. Applicants must also be accepted by the dual degree committee. All applicants must submit a Law School Admission Test (LSAT) score. An applicant’s LSAT score may be substituted for the Graduate Record Examination (GRE) score, which is normally required for admission to the MPA program. Application may be made prior to or after matriculation in either the JD or the MPA program, but application to the dual program must be made prior to entry into the last 29 hours required for the JD and prior to entry into the last 15 hours required for the MPA.

Requirements

A dual degree candidate must satisfy the requirements for both the JD and the MPA degrees, as well as the requirements for the dual program. The College of Law will award a maximum of 9 hours of credit toward the JD degree for successful completion of approved graduate-level courses (500 or 600 level) offered in the Department of Political Science. The MPA program will award a maximum of 9 hours of credit toward the MPA degree for successful completion of approved courses offered in the College of Law. All courses for which such cross-credit is awarded must be approved by the JD-MPA coordinators in both academic units. All candidates for the dual degree must successfully complete Administrative Law (Law 821). An internship is strongly recommended for students in the dual degree program, as it is for all MPA candidates, but an internship is not required.

During the first two years in the dual program, students will spend one academic year completing the required first year of the College of Law curriculum and one academic year taking courses solely in the MPA program. During those first two years, students may not take courses in the opposite area without the approval of the JD-MPA coordinators in both academic units. In the third and fourth years, students are strongly encouraged to take both law and political science courses each semester.

Dual degree students who withdraw from the program before completion of the requirements for both degrees will not receive credit toward either the JD or the MPA degree for courses taken in the other program except as such courses qualify for credit without regard to the dual program.
**Advising of Grades**

For grade recording purposes in the College of Law and the Department of Political Science, grades awarded in courses in the other unit will be converted to either Satisfactory or No Credit and will not be computed in determining a student’s GPA or class standing. The College of Law will award a grade of Satisfactory for an approved MPA course in which the student earns a grade of B or higher and a grade of No Credit for any lower grade. The Political Science Department will award a grade of Satisfactory for an approved law course in which the student earns a grade of 2.30 or higher and a grade of No Credit for any lower grade. The official academic record of the student maintained by the Office of the University Registrar shall show the actual grade assigned by the instructor without conversion.

**MASTER OF SCIENCE IN PLANNING**

**PLANNING MAJOR**

The Master of Science in Planning (MSP) degree is the normal route for entry into professional positions in urban and regional planning or related fields. Graduates are candidates for positions in regional, city, county, and metropolitan planning agencies; in local, state, and federal agencies concerned with physical, economic, and administrative planning; in private business and organizations dealing with development problems; and in private consulting firms. The Planning Accreditation Board, a joint undertaking of the American Institute of Certified Planners and the Association of Collegiate Schools of Planning, accredits the MSP program.

**Admission**

Applicants for admission to the program must have a bachelor’s degree or its equivalent. Normally, an overall grade point average of 3.00 and an average of 3.20 in the last two years of undergraduate courses are required. In addition, a composite score of 1100 on the verbal and quantitative parts of the GRE is desired. Students must demonstrate proficiency in the use of software applications for the personal computer, as well as in statistics. Taking an undergraduate statistics course can satisfy the last requirement. Achieving a satisfactory grade in Political Science 596 can fulfill the software applications requirement. Exceptions to this requirement will be considered on an individual basis.

**Requirements**

The MSP is a non-thesis program requiring 43 hours. Specific requirements include the following.

- **Core Curriculum (28 hours)** – 514, 531, 560, 581, 582, 583, 584, 585, 589, and 596 (1 hour). Students should plan to enter the program in the fall term to take core courses in the proper sequence.

- **Concentration (9 hours)** – Each student must choose a concentration from the environmental planning, land use planning, political science, public administration, real estate development/economic development, transportation planning, and urban design. Concentration courses are drawn from a prescribed set in the subject area from the department’s curriculum and from other departments in the university.

- **Recommended Internship (6 hours)** – Internships are arranged in consultation with the coordinator of the MSP degree program.

- **Comprehensive Exam** – Each student must pass a final comprehensive exam. Successful completion of a comprehensive exam is required before graduation. The exam will normally be taken after completion of the core requirements in the second year. Based on the material generally used by the American Institute of Certified Planners (AICP), this requirement provides an additional capstone experience as well as preparation for meeting AICP professional certification requirements.

**DOCTOR OF PHILOSOPHY**

**POLITICAL SCIENCE MAJOR**

The PhD program prepares students for careers in college teaching, as well as careers in other occupations related to service in the public or private sectors.

**Admission**

Applicants for admission to the program should normally have completed a master’s degree in political science or a related field with a 3.50 GPA and have earned a composite score of at least 1100 on the verbal and quantitative parts of the Graduate Record Examination.

**Requirements**

Doctoral students admitted to the program must complete 84 hours beyond the bachelor’s degree, including 24 hours of coursework beyond the master’s degree, graded A-F, must successfully pass written comprehensive examinations in two fields of political science, and must pass a final oral examination on the dissertation.

In addition, students must satisfy a research tool requirement. Usually, students meet this requirement by completing 12 hours of coursework numbered above 500 in empirical theory and research methodology. However, if a student’s advisor and program committee certify that competency in a foreign language is a more appropriate research tool, a foreign language can be used instead.

In addition to the total hours required for the degree, the following requirements must also be met.

- At least 69 hours must be in political science courses.
- At least 54 hours in political science must be in courses numbered above 500.
- Completion of Political Science 510, 511 and 513.
- Completion of at least three courses or seminars at the University of Tennessee, Knoxville, in each of the two fields in which the students take examinations.
- Completion of Political Science 520.
- At least 6 hours must be earned in political science courses numbered above 600.
- A total of 24 hours must be earned by writing the dissertation.

**Environmental Policy Minor**

The department houses a program designed to give graduate students an opportunity to develop an interdisciplinary specialization in environmental policy. The program is designed to give master’s and doctoral level graduate students an opportunity to develop interdisciplinary specialization in environmental policy. While administered through the Political Science Department, the program is coordinated by a committee of representatives from the following participating departments and programs – Agricultural Economics; Civil and Environmental Engineering; Ecology and Evolutionary Biology; Economics; Forestry, Wildlife and Fisheries; Geography; Management; Political Science; and Sociology.

Students may request admission to the minor following admission to a graduate program in one of the participating departments. Students in good standing in one of these programs may apply for admission to the minor in environmental policy. The coordinating committee will consider the admission of interested students. Applicants should have a background in both natural and social sciences evidenced by prior coursework or experience.
Requirements
One course in environmental studies from the student’s major discipline and one course in quantitative methods are required. These requirements may be fulfilled before or after admission to the minor. All students admitted to the minor will be required to register for Political Science 549 and to complete the following courses.

• A choice of Ecology and Evolutionary Biology 421 or 484 or another Ecology and Evolutionary Biology course with the consent of the program coordinating committee or Geography 433 or approved equivalent as determined by the program coordinating committee.

• 6 hours of coursework outside the major discipline approved by the coordinating committee.

Doctoral students seeking a minor in environmental policy must also complete, in addition to above, a policy-relevant dissertation approved by the coordinating committee.

DEPARTMENT OF PSYCHOLOGY
http://psychology.utk.edu
James E. Lawler, Head
Lowell Gaertner, Liaison
Brent Mallinckrodt, Liaison
Deborah Welsh, Liaison

Professors
Burghardt, G.M. (Alumni Distinguished Professor), PhD .... Chicago
Handler, L., PhD ........................................... Michigan State
Hector, M., PhD ........................................... Michigan State
Lawler, J.E., PhD .......................................... North Carolina
Lounsberry, J.W., PhD ................................. Michigan State
Mallinckrodt, B., PhD ............................... Maryland
Malone, J.C., PhD ................................. Duke
Nash, M.R., PhD ............................................. Ohio
Pollio, H., PhD ............................................. Michigan
Saudargas, R.A., PhD .................................... Florida State
Sundstrom, E.D., PhD ................................. Utah
Travis, C.B., PhD ........................................ California (Davis)
Wahler, R.G., PhD .................................. Washington

Associate Professors
Baldwin, D., PhD ......................................... Kent State
Corbetta, D., PhD ........................................ Geneva (Switzerland)
Gaertner, L., PhD ........................................ North Carolina
Gordon, K., PhD ......................................... North Carolina
Hopko, D., PhD ......................................... West Virginia
Hutchens, T., PhD ...................................... Georgia
Morgan, W.G., PhD .................................. Tennessee
Welsh, D.P., PhD ................................ Massachusetts

Assistant Professors
Cooper, M., PhD ........................................ Georgia
File, P., PhD ............................................ State University of New York (Buffalo)
Freeberg, T.M., PhD ................................ Indiana
Levy, J., PhD .............................................. Louisiana
MacFie, J., PhD ........................................ Rochester
McNulty, J.K., PhD .................................. Florida
Moore, T., PhD ........................................ Virginia Tech
Olson, M., PhD ........................................... Indiana
Owens, G., PhD .......................................... Kentucky
Reynolds, G.D., PhD ................................. Virginia Tech
Rhatigan, D.L., PhD ................................. Virginia Tech
Szymanski, D., PhD .............................. Georgia State

MAJOR DEGREES
Psychology MA
Experimental psychology concentration
General psychology concentration

Psychology PhD
Clinical psychology concentration
Counseling psychology concentration
Experimental psychology concentration

MASTER OF ARTS
PSYCHOLOGY MAJOR
This program is appropriate for students who desire a master’s degree as part of their progress toward a doctorate or for those who wish to complement a degree in a different field.

Admission
Any student with a BA or BS may apply to the Department of Psychology for admission to the master’s program. All students must submit scores from the Graduate Record Examination (general and subject).

Major Advisor and Committee
Initially, the Director of Experimental Psychology will advise the student. As soon as possible, the student must select an advisor and obtain his or her approval for registration. Subsequently, the advisor and student will select two additional faculty members to comprise the student’s major’s committee. Final committee approval comes from the graduate dean, upon recommendation by the department head.

Requirements
All students must complete 32 hours of graduate-level courses in psychology. These hours must include 515, 521-522, or Statistics 531-532 or an equivalent sequence; 565 or 420; 6 hours of Thesis 500; and 12 hours of 500- or 600-level foundation courses; plus additional graduate level hours to reach the 32-hour requirement. Students must earn a grade of B or better in all courses that are to count toward the 32-hour total. Students must also propose, conduct, and successfully defend an original piece of research in the form of a master’s thesis.

DOCTOR OF PHILOSOPHY
PSYCHOLOGY MAJOR
A student with a BA or BS may apply to the Department of Psychology for admission to the doctoral program with a concentration in clinical psychology, counseling psychology, or experimental psychology. All students must submit scores from the Graduate Record Examination (general and subject).

CLINICAL PSYCHOLOGY CONCENTRATION
This program is designed to lay the groundwork for a career as a clinical psychologist capable of working in both academic and applied settings. The program emphasizes the theoretical foundations of psychology, as well as supervised experience oriented toward the development of practical skills. The program embodies a model of clinical psychology in which practice and research are integrated.

Requirements
After forming the doctoral committee, each student must pass a comprehensive examination administered and evaluated by the committee. Clinical program students must complete a pre-dissertation research project by the end of the second year.

The comprehensive examination is organized around a research case study of one client who has been assessed and/or treated by the student in the departmental psychological clinic. In addition to the case presentation, the paper presents the student’s comprehensive review of relevant research and theory as a context for procedure, results, and discussion of the case. All doctoral students must complete a minimum of 78 hours of graduate-level courses, including courses required by their program; at least 6 hours in courses outside of psychology; and at least 24 hours of dissertation research (Psychology 600). Finally, students must complete an acceptable doctoral dissertation and conduct a satisfactory oral defense of the dissertation.
Requirements are as follows.

- Apprenticeship with one faculty member during the first year, two days each week.
- A written pre-dissertation research project (completed before forming a doctoral supervisory committee) reported in a form acceptable to two members of the faculty or, if reviewed and accepted for publication or external presentation, by one member of the faculty.
- A supervised clinical placement two days (16 hours) each week during the second year and the following option during the third and fourth years – continued two day clinical placement in the third and fourth years or teaching assistantship in the department in either the third or fourth year and two-day clinical placement in the other year.
- Satisfactory completion of listed courses (or equivalents) in the following categories.
  1. Foundations of Psychology: Biological Factors, Perception, Learning, Thinking, Motivation (513).
  2. Interviewing and Observation (558) and Laboratory (559).
  3. Research Practicum (509), 4 hours.
  4. Life-Span Development (512) or Developmental Psychology (511).
  5. Personality: Personality Cognition and Affect (570) and Developmental Psychopathology (597).
  8. Psychological Assessment I and II (594-595) and Laboratory (596).
  9. Analysis of Variance for Social Sciences (521) and Multiple Regression for Social Sciences (522).
  11. Field Placement in Clinical Psychology (695).
  13. Psychometrics (555).
  15. Psychotherapy I and II (670-671) and Laboratory (673), 4 hours.
  16. Doctoral Research and Dissertation (600), 24 hours.
- Students who choose a teaching assistantship in the third or fourth year must have satisfactorily completed 528 College Teaching in Psychology.
- Satisfactory completion of a one-year clinical internship at a site approved by the program.

COUNSELING PSYCHOLOGY CONCENTRATION

The counseling psychology program is based upon the scientist-practitioner model of training which stresses both research and practice. It is designed to enable students to become behavioral scientists skilled in psychological research and its application. Students are trained to work with people who have generally integrated or intact personalities, to focus on these individuals’ strengths and assets, and to use relatively brief interventions to further enhance these strengths or to remediate deficiencies within them. While working with others, counseling psychologists tend to focus on the interactions of the personal, educational, and vocational environments of the individuals, groups, families, and organizations with whom they work.

Requirements

The counseling psychology program consists of a minimum of 107 hours of graduate credit. This includes 83 hours of coursework and 24 hours of dissertation research (see below).

Students are assigned a temporary faculty advisor upon admission to the program. By the end of their first calendar year, students are expected to have selected an advisory committee. Prior to taking their comprehensive examinations, students must form and meet with their doctoral committee, present an acceptable program of study to the doctoral committee, and have their research competency approved by the program’s research review committee. The examinations cover the counseling psychology core and the student’s cognate.

In addition to approving a student’s program of study, the doctoral committee approves the student’s dissertation proposal and verifies that the student’s dissertation is acceptable for the doctoral degree. The doctoral dissertation is original research that is theoretically based and psychological in nature. It must fulfill the requirements and procedures as stated in the current University of Tennessee, Knoxville, Graduate Catalog.

The following are required of all students.

- Students must accumulate a minimum of 600 hours in practicum experience. Students are required to have three semesters of individual practicum and one semester of group practicum. Practicum sites include the University of Tennessee, Knoxville, Counseling Center; community agencies; the University of Tennessee, Knoxville, Career Resources Center; and area schools. Opportunities for additional practicum experiences exist in the community.
- In addition to coursework, students must demonstrate competency in research methodology and academic scholarship prior to the doctoral committee’s approval of the student’s dissertation proposal. The research project is to be initiated after the student has entered the counseling psychology program.
- Satisfactory completion of the following curriculum.
  A. Psychological Foundations – minimum of 21 hours.
     1. History and Systems of Psychology.
     2. Biological Bases of Behavior.
     4. Social Basis of Behavior.
     5. Individual Behavior – minimum of 6 hours.
     6. Life Span or Developmental Psychology.
  B. Quantitative and Research Skills – minimum of 15 hours.
     1. Statistics – minimum of 6 hours.
     2. Qualitative Research – minimum of 3 hours.
  C. Counseling Psychology Core – minimum of 39 hours.
     1. Prepracticum in Career Development.
     2. Vocational Theory and Practice.
     3. Practicum – minimum of 9 hours.
     5. Cross-cultural Counseling.
     7. Assessment – minimum of 6 hours.
     8. Group Counseling.
  D. Departmental Seminar.
- Students are also required to complete a 2000-hour internship prior to graduation. In consultation with the student and the student’s doctoral committee chair, the training director approves the internship site, which must meet APA Guidelines.
- Students who wish to have experiences as a teaching assistant must first satisfactorily complete department’s teaching practicum course.
EXPERIMENTAL PSYCHOLOGY
CONCENTRATION

The PhD program in psychology with a concentration in experimental psychology is designed to allow students to select from a variety of specializations oriented toward careers in research, teaching, and application of psychology in academic, institutional, or industrial settings. The program is flexible, individualized, and emphasizes a professional apprenticeship model of training.

Requirements

Twelve hours of quantitative coursework, including:

1. Biological
   • 6 hours of Psychology 521-522, Statistics 531-532, Statistics 537-538, or equivalent.
   • 3 hours of Research Methods 505 or equivalent.
   • 3 additional hours of statistics coursework (as enumerated in current experimental handbook).
   • 6 hours of Research Practicum (509).
2. Developmental
   • 512 Lifespan Development.
   • 524 Brain and Behavioral Development.
3. Social
   • 550 Social Psychology.
   • 530 Psychology of Attitudes.
   • 565 History and Systems (or 420 for graduate credit).
   • 543 Cognitive Science.

Six additional hours from any of the core course offerings, but that may also include:

• 565 History and Systems (or 420 for graduate credit).
• 543 Cognitive Science.

DEPARTMENT OF RELIGIOUS STUDIES

http://web.utk.edu/~religion

Gilya G. Schmidt, Head
Rosalind Hackett, Graduate Program Director

Professors
Fitzgerald, J.L., PhD ...................................................... Chicago
Hackett, R.I.J., PhD .................................................... Aberdeen (UK)
Levering, M.L., PhD ................................................... Harvard
Reynolds, C.H., PhD .................................................. Harvard
Schmidt, G.G., PhD ...................................................... Pittsburgh

Associate Professors
Gwyne, R.W., PhD ........................................................... Northwestern
Hodges, J.O., PhD ......................................................... Chicago
Hulsheger, M.D., PhD .................................................... Minnesota
Stiebert, J., PhD ............................................................. Glasgow (UK)

Assistant Professors
Scott, R., PhD ............................................................. Northwestern
Shepardson, C.C., PhD .................................................. Duke

Adjunct Faculty
Heffernan, T.J.A., PhD ...................................................... Cambridge (UK)

The Master of Arts degree with a major in philosophy and a concentration in religious studies is available. Contact the department for details of this program. Graduate courses in religious studies provide opportunity for students in a variety of disciplines to pursue work in religious studies as a graduate concentration.

DEPARTMENT OF SOCIOLOGY

http://web.utk.edu/~utsocdep/

R. Scott Frey, Head
Harry Dahms, Graduate Program Director

Professors
Frey, R.S., PhD ......................................................... Colorado State
Jalata, A., PhD ......................................................... State University of New York (Binghamton)
Reed, W.L., PhD ....................................................... Boston
Shover, N.E., PhD ....................................................... Illinois

Associate Professors
Bohon, S.A., PhD ........................................................... Penn State
Bui, H.N., PhD ............................................................. Michigan State
Cable, S., PhD .............................................................. Penn State
Dahms, H.F., PhD .......................................................... New School for Social Research
Dandaneau, S.P. (Associate Vice Provost, Director of Chancellor’s Honors Program), PhD ........................................... Brandeis
Jones, R.E., PhD ............................................................ Washington State
Kurth, S.B., PhD ........................................................... Illinois (Chicago)
Shenner, J., PhD ............................................................ California (Davis)

Assistant Professors
Feldmeyer, B., PhD ....................................................... Penn State
Gellert, P.K., PhD .......................................................... Wisconsin
Presser, L., PhD ............................................................ Cincinnati

Lecturers
Chumakov, Y., PhD ...................................................... Notre Dame
Morelock, J., PhD ........................................................ Penn State
Talley, J., PhD .............................................................. Tennessee

Adjunct Faculty
Strayhorn, T.L., PhD ..................................................... Virginia Tech

MAJOR DEGREES

Sociology

Criminology concentration
Environmental sociology concentration
Political economy concentration

The Sociology Department offers graduate study leading to the Master of Arts and the Doctor of Philosophy degrees. The MA program includes a thesis and non-thesis option.

The criminology concentration includes 505, 551, 653 and 655. The environmental sociology concentration includes 560, 661 and 665. The political economy concentration includes 504, 541, 543, 644, and 645.

Both the master’s and the doctoral program allow for the construction of individualized programs of study. Detailed information may be obtained from the Programs and Curriculum Committee in Sociology. New students are admitted in fall semester only. Applications must be received by the Office of Graduate and International Admissions by February 1.

Admission

• Acceptable scores on the general Graduate Record Examination (verbal, quantitative, and analytical) are required.
• Overall undergraduate grade point average (GPA) of 3.00 or higher.
• Three letters of recommendation (forms may be obtained from the department).
• Completion of the appropriate previous degree (baccalaureate, preferably with a major in one of the social sciences, for the MA program; master’s degree in one of the social sciences for the doctoral program).
MASTER OF ARTS
SOCIOLOGY MAJOR

Requirements
Thesis Option
A minimum of 30 hours beyond the baccalaureate degree, including 24 hours of coursework and 6 hours of Thesis 500, is required. Students must complete Sociology 521, 531, Statistics 531, and one foundation course (504, 505, or 560). At or near the end of all coursework, the student must take an oral examination on course material and thesis. The examination will be administered by the student's committee.

Non-Thesis Option
A minimum of 30 hours of coursework is required, including Sociology 521, 531, Statistics 531, and one of 504, 505, or 560. Sociology 534, 622, and Statistics 532 are recommended. A student's plan of study should follow one of these approaches.

- Plan 1 – 6 hours in one of the department's concentrations and 6 hours in a second area, including areas outside the department, subject to the approval of the student's committee.
- Plan 2 – 12 hours in a special area of study approved by the student's committee and the department's Programs and Curriculum Committee. Students are encouraged to prepare a paper synthesizing their knowledge of the concentration(s). Students who incorporate supervised field experience in their programs are encouraged to prepare a report based on those experiences that demonstrates their understanding of research, theory, and report writing.

All students must take final written and oral examinations that include questions on their general coursework in theory and methods and on their special areas of study.

Subject to approval by the student's committee, up to 12 hours may be taken in courses outside the department for either program. Sociology courses at the 400 level may also be taken with the approval of the student's committee.

DOCTOR OF PHILOSOPHY
SOCIOLOGY MAJOR

Requirements
Twenty-four hours of coursework beyond the master's degree are required (exclusive of Satisfactory/No Credit credits). Twelve hours of course credit in Sociology at the 600 level are required. Students who enter the program without the courses required for the MA (521, 531, Statistics 531) or their equivalents must take them as remedial work, which does not apply to their residence. Students must complete Sociology 622, 534, 633, or 636; and Statistics 532 or another advanced course in statistics. Completion of 9 hours in each of two concentrations is encouraged. A student who cannot achieve his/her educational goals within the department's concentrations may construct an individualized course of study subject to the approval of the student's doctoral committee and the Curriculum Committee. Sociology courses at the 400 level may not be taken without the consent of the student's advisor and the Curriculum Committee. Six hours may be taken in related fields without petitioning for approval. The student's program may include a minor or cognate field.

Comprehensive Examinations
Written examinations in four areas are required (sociological theory, research methodology, and two substantive areas). Doctoral students are eligible to take the theory and methodology examinations whenever offered. Substantive examinations may be taken upon completion of theory and methodology examinations. Detailed information on examinations and examination options may be obtained from the department.

Dissertation and Final Examination
A dissertation based on original research must be completed (24 hours). The candidate must pass an oral defense of the dissertation, including the theory and methodology related to the research, in accordance with the deadlines specified by the Graduate School.

Environmental Policy Minor
The department participates in a program designed to give graduate students an opportunity to develop an interdisciplinary specialization in environmental policy. See Department of Political Science for program description.

Intercollegiate/Interdisciplinary Gerontology Minor
Graduate students in the Department of Sociology may pursue an intercollegiate/interdisciplinary minor in gerontology. The gerontology minor gives the student an opportunity for combining knowledge about aging in American society with his/her major concentration.

Core courses and a practicum are offered by the College of Social Work and selected departments within the Colleges of Education, Health, and Human Sciences and Arts and Sciences. A cross-listed seminar between contributing programs is designed to integrate experiences from different sources and to demonstrate the multi-faceted nature of working within an aging society. Please refer to the College of Education, Health, and Human Sciences for specific requirements.

DEPARTMENT OF THEATRE
http://theatre.utk.edu

Calvin MacLean, Head

Professors
Black, W.R., MFA ................................................. Illinois
Custer, M., MFA ................................................. Wisconsin
MacLean, C., MFA ................................................ Massachusetts

Associate Professors
Diamond, J., MFA ................................................. New York
Van den Berg, K., PhD .............................................. Indiana
Weber, T., MFA ....................................................... Alabama
Yeager, K., BFA ..................................................... Penn State

Assistant Professors
Buckley, K., BA ....................................................... Illinois
Copeland-Halter, T., MFA .......................................... New York
Pickart, C., MFA ..................................................... Penn State
Sams, J., BS ......................................................... Penn State

MAJOR DEGREE

Theatre
MFA

Acting concentration
Costume design concentration
Dramaturgy concentration
Lighting design concentration
Scene design concentration

UT Theatre maintains an active presence on the international theatre scene through the engagement of distinguished guest artists, touring to foreign theatre festivals, participation in international conferences, and other educational initiatives.

Applicants must have completed undergraduate degrees approximately equivalent in requirements to those specified for degrees conferred by the University of Tennessee, Knoxville.

Admission
Three letters of recommendation and interviews with appropriate faculty are required of all applicants. Applicants for admission to the MFA design/technical theatre programs must submit samples of their work. Auditions are required of MFA degree performance applicants. Not all areas of concentration accept applicants every year.
For detailed information about the graduate program, contact the Director of Graduate Studies, Department of Theatre.

MASTER OF FINE ARTS
THEATRE MAJOR

Requirements

At least 60 hours, 40 of which must be at the 500 level or above, are required for the Master of Fine Arts with a major in theatre, which is normally to be completed in three consecutive years of full-time residence. Theatre 501 is required the first year of residence. Three additional hours at the 500 level are required from history, literature, or dramaturgy. Students in the MFA degree program are evaluated annually by juried performance or portfolio submission. Continuation in the program is with the approval of the faculty committee. Theatre 599 (Projects in Lieu of Thesis) and an oral defense of the project must be completed satisfactorily before the degree is conferred.

In addition to the core requirements listed above, each area of concentration has specific requirements.

ACTING CONCENTRATION

At least 12 hours each of 520, 523, and 525. Coursework in this concentration is conducted in a conservatory environment.

DESIGN CONCENTRATION

Required courses are at least 12 hours of Theatre 580 and at least 6 hours in the projects courses. Theatre 503 is required in the first year of residence.

DRAMATURGY CONCENTRATION

Required courses include: Theatre 430, 510, (9 hours), 585 (12 hours), 6 hours in theory and literary criticism, plus electives from music, film, art, and business. Dramaturgy students must also satisfy a foreign language requirement (proficiency in one language or reading knowledge of two).

REQUIREMENTS FOR A SECOND MASTER’S DEGREE

Students admitted to the MFA program who have already earned a master’s or a doctoral degree may apply up to 12 credit hours from the previous graduate program to the MFA degree with approval of the student’s committee, the Dean of the College of Arts and Sciences, and the Dean of the Graduate School.

Any such credits applied from a previous graduate program would be from courses that are directly relevant to the student’s MFA curriculum and must have been earned within the time limit (6 years) established for completion of the MFA.