The College of Arts and Sciences is home to a wide array of academic disciplines and interdisciplinary programs. Such diverse areas of study as computer science and classics, anthropology, women’s studies and Latin American studies are represented among the twenty-six departments and schools and thirteen special programs that compose the college.

The faculty of the college are committed to providing both comprehensive general education and concentrated study in a particular field to all students enrolled at the University of Tennessee, Knoxville. General education offers opportunities to master the basic learning skills necessary to understand a specialized area of study and is essential for the continuation of learning throughout life.

Arts and Sciences faculty are also committed to educating students in a discipline. Education with a disciplinary focus prepares students for further study at the graduate level and for careers in business, public service, or any other endeavor. As our world becomes both more specialized and more changeable, the need to find the right balance between general and specialized knowledge becomes essential.

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. For the student whose interests and talents lead into research, scholarship, and teaching, a liberal education provides an invaluable foundation. For the individual who enters business, industry, the professions, or government service, it furnishes a broadly useful and well-rounded educational background. For all, it offers the opportunity to share in a rich intellectual heritage, in the adventures of the mind, and in the life of the educated imagination. A liberally educated person is identified not so much by specific knowledge as by quality of mind and by creative response to the challenges of the times.

The great universities of the world are so labeled because their faculties have earned the reputation of being renowned scholars. The University of Tennessee, Knoxville, has earned such a reputation because of the quality of the research and creative activity of its faculty. The student who studies in the College of Arts and Sciences has joined a community of scholars. To study with such a talented faculty is to experience the best education possible.

The faculty of the College of Arts and Sciences provide to all students a general education and to thousands of students a year a more specialized education in any one of twenty-six disciplines and thirteen or more interdisciplinary programs. The college’s faculty help their students prepare for any and all careers. Faculty research and creative activity are the foundations on which education in this college is built. As a result of that faculty endeavor, the lives of students are enriched and the world’s body of knowledge grows. That is the basic mission of the College of Arts and Sciences faculty in a research university.

Programs of Study

Seeking the broad, general goals of a liberal education, students come into the college also with a wide variety of specific educational and vocational objectives. Recognizing this diversity, the college offers a number of different programs of study leading to the baccalaureate degree and also several pre-professional curricula which prepare students for advanced study but do not lead to a degree from this college.
Degrees Offered

BACHELOR OF ARTS

The Bachelor of Arts represents the attainment of a broad knowledge of the arts and sciences as well as a comprehensive understanding of one or more areas of special interest. Three programs leading to this degree are open to the student.

Basic Program

The program appropriate for most Bachelor of Arts students is developed around the basic skills and distribution requirements plus intensive study in one or more of the specified departmental or interdepartmental major fields described below.

Individualized Program

Designed for students whose educational goals are best met by a program tailored to their particular needs, it is the same as the basic program in broad area requirements but permits the student to develop an individual concentration incorporating work in two or more departments.

College Scholars Program

Intended for a limited number of students who are especially qualified and motivated and who have been selected to undertake this honors program, the College Scholars Program permits the students maximum freedom to design a curriculum to meet particular interests and goals.

BACHELOR OF SCIENCE

The Bachelor of Science degree, offered in selected departments and programs, is designed for students who wish to pursue a more scientifically or professionally oriented program of study. Three programs leading to this degree are offered.

Basic Program

The basic program for the Bachelor of Science degree contains basic skills and distribution requirements similar to the basic program for the Bachelor of Arts as well as a unique set of requirements for the major including additional study in mathematics, statistics, or laboratory sciences.

Pre-Professional Program

The pre-professional program is offered for those who wish to participate in the cooperative 3+1 curricula in the health sciences (medicine, dentistry, pharmacy, veterinary medicine, or nuclear medicine technology). Students taking one of the health sciences curricula proceed directly to specialized training in the chosen area after the third year of Arts and Sciences study and complete the first year of professional study in lieu of satisfying the requirements for the Bachelor of Science degree with a major concentration in the college.

BACHELOR OF SCIENCE IN CHEMISTRY

See Department of Chemistry.

BACHELOR OF FINE ARTS

See School of Art.

BACHELOR OF MUSIC

See School of Music.

Requirements for Degrees

To earn a Bachelor of Arts or Bachelor of Science degree, these requirements must be completed:

- All university degree requirements as described in the section: Academic Policies and Procedures - General Requirements for a Bachelor’s Degree.
- A minimum of 124 credit hours.
- At least 42 credit hours in courses numbered 300 or above.
- Appropriate work to satisfy basic skill and distribution requirements, counting no course in more than one area. (This is not a requirement in the College Scholars Program.)
- Completion of at least one major (24-40 credits at 200 level or above for Bachelor of Science majors and 24-37 credits at 200 level or above for Bachelor of Arts majors); up to 6 hours in the major may be used, where listed, to satisfy basic skills or divisional distribution requirements. Courses used for the major may not be used to satisfy upper level distribution requirements.

Students may choose to develop one or more minors (minimum 15 hours at the 200-level and above).

Students may take up to 20 hours of courses graded Satisfactory/No Credit in an area outside the major or minor, basic skills or distribution requirements.

Satisfactory/No Credit

A few courses in the college are offered only on a Satisfactory/No Credit (S/NC) basis and students may elect to take others on this basis, except in areas where the option is specifically prohibited. Such courses, if successfully completed, will count as hours for graduation although neither S nor NC grades will be calculated in the student’s grade point average. Satisfactory is defined as C or better work on the traditional grading scale and No Credit is defined as less than C. The following regulations apply:

- S/NC courses, except those offered only on this basis, may not count for basic skills or distribution requirements or major and minor requirements unless specifically permitted by petition. This restriction applies also to major or minor prerequisites or corequisites.
- The maximum number of S/NC elective hours which may be counted toward graduation is 20, exclusive of courses offered only S/NC, physical education courses, and/or satisfactory hours earned by examination, military service, etc.
- A transfer student with S/NC or equivalent credit earned prior to admission to the University of Tennessee, Knoxville, in a course which satisfies a basic skills or distribution requirement may count it for that purpose. In the case of a course which satisfies a major or minor requirement, statement 1 (above) applies.

The option of taking courses on a S/NC basis is provided to encourage the able student to venture beyond the limits of those courses in which the student does well and, motivated by intellectual curiosity, to explore subject matter in which performance may be somewhat less outstanding than work in preferred subject fields.
Note: Students planning to seek admission to graduate or professional schools (especially in the health sciences) should discuss with their advisors possible limitations on exercise of the S/NC option before registering for courses on this basis.

Programs Leading to Bachelor of Arts and Bachelor of Science Degrees

The Bachelor of Arts and the Bachelor of Science degrees share the same program of basic skills and distribution requirements (except where noted otherwise).

BASIC SKILLS REQUIREMENTS

All students who earn a degree in the College of Arts and Sciences must have demonstrated skill in the use of the English language, the ability to acquire another language, and the ability to use the tools of quantitative analysis or formal logic. The specific requirements are as follows:

English Composition

Skills necessary to write persuasive, logical and coherent essays in English; to read critically texts from a variety of media; to evaluate and cite sources in research; and to be aware of how to write for different audiences and purposes.

Students may meet this requirement in one of two ways:

• By completing six credits in English writing course—either English 101 and 102; or English 118 and English 102; or English 131 and 132. Students who obtain a grade of A or B in 118 may complete their freshman requirement with 102, or with a sophomore literature course in the English Department, or English 355. The sophomore literature course may, if so listed, also be used toward the humanities distribution requirement.

• By earning a score of 4 or 5 on the College Board Advanced Placement Test in Literature and Composition. Credit in English 101 is earned with a score of 4 or 5 on the Advanced Placement Test in Language and Composition.

Placement Information: Eligibility for English 118 will be determined by ACT or SAT scores and a placement exam. Selected students will be placed in English 101 based on ACT or SAT scores and may not drop this course without departmental approval. Details are available from the English Department.

A student must complete the English composition requirement prior to enrolling in English courses numbered 200 or higher.

Communicating through Writing

To fulfill the University General Education Requirement, all students must complete the first-year composition sequence described above, and, upon completion of English 101 and 102 or their equivalent, take one other courses designated as (WC) in the Undergraduate Catalog. The WC course may or may not be within the student’s major.

Communicating Orally

The ability to communicate one’s ideas orally is as important as the ability to express them in writing. All students must fulfill the University General Education requirement by completing one course with an (OC) designation. The OC course may or may not be within the student’s major.

Foreign Language

Skills necessary to learn the basic structures and vocabulary of a foreign language; to read, write, understand, and, for modern languages, speak a foreign language; to understand how to learn another language; to better understand one’s own native language; and to complement the study of other cultures or civilizations.

Students may meet this requirement in one of three ways:

• Completion of the intermediate level sequence of a foreign language. Any one of the following sequences will satisfy the requirement: Asian Languages 231-232 or 251-252; Asian Studies 221-222, 241-242, or 261-262; French 211-212 or 217-218; German 201-202; Classics (Greek) 261 and 264; Classics (Latin) 251 and 252; Italian 211-212; Portuguese 211-212; Russian 201-202; Spanish 211-212 or 217-218.

• Demonstration of competence on a departmental placement or proficiency examination or by AP or CLEP credit.

• Students whose native language is not English may satisfy the requirement with English 131 and 132 and any two courses from List A: Literature under the Humanities Distribution Requirement.

Placement Information: All students who wish to enroll in a French, German, Latin or Spanish course, who have completed at least two years of this language in high school, and who have not yet taken a college course in the language must take a placement examination before enrolling. Placement in the appropriate course will be determined by the score on the examination. Examinations will be given during summer orientation and at designated times during the fall, spring, and summer. Students who place into 200-level courses will receive six hours of elementary language credit, provided that they do not subsequently enroll and receive credit for any 100-level course in the same language. If they do, elementary placement credit is forfeited and removed from the student’s transcript. Students who place into 300-level courses will receive six hours of intermediate language credit. Under no circumstances may any student earn more than six hours of language placement examination credit. Students who feel they have been inappropriately placed should consult the appropriate language section.

Mathematics and Quantitative Reasoning

Skills in mathematics, quantitative reasoning, and computing required for estimation and calculation, understanding logical processes, critical analysis, problem solving and decision making.

Students may meet this requirement by completion of two of the following courses, or one of the following courses and Computer Science 100 or 102:

• Math 110, 115, 123, 125, 141, 142, 147, 148, 151, 152, 202

• Statistics 201, 207

DISTRIBUTION REQUIREMENTS

All of these requirements are designed to enhance the skills of thinking critically and analytically, and of effective communication and writing through study and use of different kinds of human knowledge. The distribution requirements are in two
parts. Part A: Divisional Distribution Requirements, which require students to take courses in the various divisions of the College, and Part B: the Upper-Level Distribution Requirements.

**PART A: DIVISIONAL DISTRIBUTION REQUIREMENTS**

**Natural Science**

A two-course laboratory sequence and an additional course that will introduce students to the increasingly important role of science and technology in all aspects of modern life. This requirement will introduce students to the basic discoveries, knowledge and logical organization of scientific disciplines and to development and testing of hypotheses. Laboratory courses will develop skills in experimental tests of hypotheses; lectures will introduce students to the role of scientific methodology and problem-solving in society.

Students may meet this requirement by completion of a two-course sequence from list A and an additional course from List A or List B.

**List A:**

- Astronomy 161-162, 217-218; Biology 101-102, 130-140; Botany 110-120; Chemistry 100-110, 120-130, 128-138; Geography 131-132; Geology 101 and either 102 or 103; Geology 107-108 (Students who earn an A in 101 or a B or better in 107 may take 108.); Physics 135-136, 137-138, 221-222.

**List B:**

- Anthropology 110; Astronomy 151; Botany 306 (Same as Anthropology 306), 309, 310, 330; Chemistry 150, 160; Computer Science 140, 160; Geology 201, 202, 203; Microbiology 210; Biochemistry and Cellular and Molecular Biology 230; Physics 101, 102.

**SOCIAL SCIENCE**

Courses that will introduce students to the idea of individuals in societies, to perspectives and methods used by social scientists, and to the uses of these perspectives and methods in thinking about current social, economic and political issues and problems.

Bachelor of Arts students may meet this requirement by completion of four courses selected from the list below. These courses must be from two departments. Bachelor of Science students must complete two courses from different departments.

- African and African-American Studies 201, 202, 310; Anthropology 120, 130, 362; Audiology and Speech Pathology 320; Botany 305; Communication Studies 201, 220, 260, 330; Economics 201, 207; Educational Psychology 210; Geography 101, 102, 320, 323; Global Studies 250; Linguistics 200; Music History 290, 310; Political Science 101, 102, 107; Psychology 110, 117, 220, 360; Religious Studies 232, 301; Sociology 110, 117, 120, 127, 232, 250, 344, 370; Women's Studies 220.

**HUMANITIES**

Courses that will provide skills to appreciate and interpret literary, philosophical, or religious texts, and to participate as an appreciative observer or artist in a discipline within the visual, spatial, musical, theatrical, or written arts.

Bachelor of Arts students may meet this requirement by completion of three courses, of which at least one must be selected from List A and one from List B. Bachelor of Science students must complete a minimum of two courses; not more than one course may be taken from List C. All courses in Lists A and B are writing-emphasis courses.

Writing-emphasis courses require at least 2,000 words, normally comprising one sustained essay or report of at least 1,000 words plus additional writing assignments such as in-class essay exams, journals, book reviews, etc. The purpose of the requirement is to help students (a) learn course materials through writing; (b) develop critical thinking skills; (c) demonstrate the ability to sustain an argument; and (d) strengthen existing writing skills.

**List A: Literature**

- African and African-American Studies 233; Asian Languages 311, 312, 313, 314; Classics 253; Comparative Literature 202, 203; English 201, 202, 221, 222, 231, 232, 233, 251, 252, 253, 254; Information Sciences 330; Italian 401, 402; Latin American Studies 315; Medieval Studies 261, 262; Portuguese 315; Religious Studies 312, 313; Russian 221, 222; Women's Studies 210, 215.

**List B: Philosophical and Religious Thought**

- Classics 201, 221, 222; Philosophy 110, 111, 240, 342, 344, 345, 346, 382; Religious Studies 101, 102, 321, 322, 344, 345; Women's Studies 382.

**List C: Study or Practice of the Arts**

- Architecture 111; Art 191; Art History 162, 172, 173, 183; Classics 232; Communication Studies 280; English 263; Music History 110, 115, 120, 125; Philosophy 350, 353; Theatre 100, 220.

**NON-U.S. HISTORY**

A two-course sequence to enhance appreciation of the diversity of the world's societies, their cultures, and histories. This requirement will develop understanding of how the past shapes individual and communities in practical decisions and in understanding of self and world; will contribute to skills in explaining change and continuity of human society and the interpretation of people, events and trends in context of the ideas, values, social and political conditions that affect them.

Students may meet this requirement by completion of one of the following sequences. All courses are writing-emphasis courses.


**PART B: UPPER LEVEL DISTRIBUTION REQUIREMENTS**

Courses that use skills and knowledge acquired in the basic skills and divisional distribution areas to understand and analyze a highly interdependent world system and to make informed comparisons among contemporary cultures. These courses develop understanding of United States society, of national and international diversity, and of critical issues of the modern world.

Bachelor of Arts students may meet this requirement by completion of two courses from one list and one course from the other list. Bachelor of Science students must complete one course from each list. All courses are writing-emphasis courses.
List A: United States Studies
African and African American Studies 315, 343, 352, 364, 429, 480, 483; American Studies 310, 312, 334, 355, 423, 469; Anthropology 305, 310, 312, 315, 320, 321, 360, 363; Art History 471, 472, 473, 483; Ecology and Evolutionary Biology 305; Economics 413, 435, 462, 471, 472; English 331, 332, 333, 334; Geography 361, 363, 365, 366, 423, 441, 443; Geology 381; History 350, 351, 441, 442, 446, 451, 453; Legal Studies 330, 340, 455, 469; Philosophy 390; Political Science 311, 312, 330, 374; Psychology 434; Religious Studies 351, 352, 355; Sociology 310, 340, 343, 455; Communication Studies 450, 466, 469, 476; Women’s Studies 310, 332, 340, 434, 453, 466, 476, 483.

List B: Foreign Studies
This list is subdivided by geographic area and topic. If Western Civilization (History 241-242) or Medieval Civilization (Medieval Studies 201-202) is used to satisfy the non-United States history divisional requirement, courses from the European concentration may not be used to satisfy this requirement.

In addition to the courses listed here, this requirement may be satisfied by literature courses taught in Chinese, French, German, Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Sanskrit, or Spanish. Literature courses in English translation will not meet this requirement.

Africa
African and African-American Studies 371, 372, 373, 379, 381, 421, 452; Anthropology 373; Art History 461, 462, 463; Geography 379; History 371, 372, 381, 421; Political Science 452; Religious Studies 373.

Asia
Art History 411, 415, 416, 419; Asian Languages 315, 413, 451, 452; Cinema Studies 315; History 389, 390, 391, 392; Japanese 413, 451, 452; Philosophy 374, 376, 379; Political Science 454; Religious Studies 374, 376, 379, 383, 474.

Europe
Anthropology 436, 462; Art History 425, 431, 441, 442, 451, 452, 453, 454, 475, 476; Cinema Studies 323, 325, 420, 421; Classics 381, 382, 383, 436; English 301, 302, 321, 401, 422; French 420, 431, 432; Geography 371; German 323, 350, 363; History 319, 320, 323, 429, 432, 490; Italian 414, 421; Judaic Studies 350; Linguistics 321; Medieval Studies 372, 382, 403, 405; Philosophy 320, 322, 324, 326; Political Science 361, 459; Russian 325, 371, 372; Women’s Studies 383, 422, 432.

Latin America
African and African-American Studies 319; Anthropology 313, 316, 319; Cinema Studies 316, 434; Geography 372, 373; History 360, 361, 460, 461, 462, 463, 475; Latin American Studies 313, 314, 316, 319, 331, 360, 361, 372, 373, 401, 456, 460, 461, 462, 463, 475; Political Science 456; Portuguese 316; Spanish 331, 401, 434, 489.

Middle East

Critical Issues in Foreign Studies
African and African-American Studies 442; Economics 323; Geography 345, 351; History 374, 375, 395, 484; Judaic Studies 395, 484; Political Science 350, 365; Sociology 360, 442, 446, 465; Women’s Studies 360.

Areas of Concentration

Required Major
Requirements for specific majors vary by program and are discussed under each department or program. A major consists of at least 24-40 credit hours in courses numbered 200 or above as specified by the department or program. Up to 6 credit hours taken in the major may also be used to satisfy basic skills or divisional distribution requirements where listed. In addition, students making A or B in English 118 may use a 200-level literature course in the English Department to satisfy both the second half of their basic skills English composition requirement and part of their humanities requirement if the course is listed there. A minimum grade of C must be earned in every course counted as part of the major. This grade requirement does not apply to prerequisites and corequisites unless the department has specific progression requirements.

Students transferring from other institutions must complete at least 9 credit hours at the University of Tennessee, Knoxville, in each major awarded on this campus. Students may elect as many courses as desired in any department or program. In lieu of a major, students may develop an individualized program (described below). Majors available in the basic program for a Bachelor of Arts or Bachelor of Science include: anthropology, art, art history, audiology, biological sciences, chemistry, classics, computer science, economics, English, French, geography, geology, German, history, interdisciplinary programs, Italian, mathematics, music, philosophy, physics, political science, psychology, religious studies, Russian, sociology, Spanish, speech pathology, statistics, and theatre.

Optional Multiple Majors
After the general requirements of basic skills, distribution and a major have been satisfied, additional majors may be recorded on the transcript without regard to course overlap among majors or among the additional majors and basic skills and distribution requirements. Students developing multiple majors must declare this intent at the time of application for graduation. Once a student has graduated, the establishment of additional majors becomes subject to university second degree requirements.

Students who satisfy the requirements of a degree in a college other than Arts and Sciences may also major inside the College of Arts and Sciences with the approval of the degree-granting unit. These students need complete only the major requirements, not the basic skills or distribution requirements for Arts and Sciences degrees. The Arts and Sciences major may also be listed on the student’s transcript.

Optional Minors
At the time of application for graduation, single or multiple minors may be recorded on the academic record without regard to course overlap among minors and major or among minors and basic skills and distribution requirements. Students who satisfy the requirements of a degree in a college other than Arts and Sciences may also minor inside the College of Arts and Sciences
with the approval of the degree-granting unit. The minimum requirement for a minor is 15 credit hours in courses numbered 200 or above. Minors are available in most departments or programs in which majors are offered, and also in astronomy, Portuguese, Chinese, Japanese, and cinema studies. Minors may be developed in other colleges or schools of the university, but must be approved by the head of the department in which the minor is proposed and by the Associate Dean for Academic Programs in the College of Arts and Sciences. At least six of the 15 credit hours required for a minor must be completed at the University of Tennessee, Knoxville.

**Business Administration Minor for Non-Business Students**

Requirements include the following courses: Accounting 201-202, Business Administration 201, Economics 201, Statistics 201, Finance 301, Marketing 300, and Management 300. All upper division (300 level or above) coursework must be taken at the University of Tennessee, Knoxville. Students are responsible for meeting all prerequisites for upper-division courses taken in a particular concentration.

**Supplementary Elective Courses**

At least one-fourth of each student’s curriculum in the basic program will be made up of courses selected according to the individual’s interests to supplement and support the work being done in the major and basic skills and distribution requirements. This dimension of the student’s experience at the university represents that freedom within which total education may be rounded out and enriched. Elective courses should be chosen with care so that they will truly enhance the student’s total program and help in the achievement of well thought-out educational objectives.

Some of the choices which the student might make in selecting the elective courses are additional courses in the major field; a related minor; an area in the arts; an off-campus semester.

Only the student’s imagination and initiative and the willingness to conceive and develop a meaningful academic program limit the choices of supplementary elective courses.

**Program for Prospective K-12 Teachers**

Student planning careers in K-12 teaching must complete an Arts and Sciences major in a department, in one of the interdisciplinary programs, or, if eligible, in the College Scholars Program. Prospective secondary teachers must fulfill the requirements of appropriate content majors; prospective elementary teachers may choose any major in the College of Arts and Sciences.

To be licensed for teaching, students must also gain formal admission to the Teacher Education Program in the College of Education, Health, and Human Sciences. The process involves successful completion of a series of requirements including presentation of satisfactory scores on certain tests, completing professional courses in the College of Education, Health, and Human Sciences, maintenance of a 2.7 or higher GPA, and completing a fifth year program emphasizing practical application. For details, see the College of Education, Health, and Human Sciences section of the *Undergraduate Catalog* and contact the Advising Center, Claxton Complex 332.

**INDIVIDUALIZED PROGRAM**

The basic program described above will meet the educational needs of most students enrolling in the college. Some, however, come with particular strengths in their preparation or with special interests which do not coincide with the departmental or interdepartmental majors specified in the basic program. For these students, the individualized program has been established as a means of attaining a closer correlation between student needs and academic programs.

Students in the individualized program will satisfy all the basic skills and distribution requirements, just as do those in the basic program. The point at which the individualization takes place is in the area of concentration. The quantitative aspect of the area of concentration is the same as for the major in the basic program (i.e., a minimum of 24 hours in courses numbered above 200), and at least two-thirds of the courses must be selected from disciplines within the College of Arts and Sciences. The student may design a program in consultation with an advisor and submit it for consideration to the Committee on the Individualized Program. The proposed courses of study must have some clear central purpose, usually implemented through intensive work in two or three departments; an undirected scattering of courses will not be approved. Students must submit their proposals for review by the committee prior to the completion of 75 hours of coursework. For further information contact Arts and Sciences Advising Services.

**COLLEGE SCHOLARS PROGRAM**

A limited number of freshmen and sophomores, entering transfer students with fewer than 42 credit hours, and resident students with fewer than 62 credit hours are invited each year to enter this distinguished honors curriculum. Selection is based on previous academic record, test scores, recommendations, a written essay, and a personal interview. Admission is provisional for two semesters; continuation depends upon maintenance of a satisfactory record (normally 3.25 or above) and evidence of ongoing motivation and interest.

The College Scholars Program affords the highest degree of freedom to the student in developing a meaningful curriculum. Each program is worked out individually with a special advisor (mentor) who under ordinary circumstances continues to advise the student throughout the college career. Together they determine what kinds of course work and/or other learning experiences will best fulfill the student’s objectives, while at the same time achieving the kind of liberal education the college believes is important for every student. In the final two years of the program, students will be heavily involved in independent study or research required of all College Scholars. When College Scholars fulfill departmental requirements for additional majors or minors, these will be recorded on the Scholars’ transcripts. Scholars will not be required to meet Basic Skills or Distribution requirements in order to have such majors or minors officially recognized.

Further information and applications may be obtained from Arts and Sciences Advising Services.
PRE-PROFESSIONAL PROGRAMS MAJOR

Pre-Dental Concentration

The college offers both a three-year program leading to a Bachelor of Science degree and a four-year program leading to a Bachelor of Arts or Science degree for students preparing for the study of dentistry. Both programs are based upon the curriculum outlined below. In the three-year program, the student must complete at least 93 credit hours while enrolled in the college, and the Bachelor of Science degree is granted upon satisfactory completion of the first year of study at UT Health Science Center, Memphis. In the four-year program, the degree is granted upon completion of 124 or more credit hours while enrolled in the college, including a major of 24 or more hours in addition to the courses listed below. The requirement for a major is waived for those completing their fourth year at UT Health Science Center, Memphis. Students in either the three- or four-year program must complete the last 30 hours of credit in residence at the University of Tennessee, Knoxville, before entering UT Health Science Center, Memphis.

Although the Bachelor of Arts or Bachelor of Science degree is not required for admission to the College of Dentistry at Memphis, most of the students accepted into the study of dentistry have the baccalaureate degree before admission. Therefore, pre-dental students are encouraged to plan to complete all requirements for the Bachelor of Arts or Bachelor of Science degree before enrolling in the College of Dentistry.

Requirements for the Bachelor of Science • Pre-Professional Programs Major • Pre-Dental Concentration

Although not reflected in the showcase, students are required to meet the University General Education Requirement as stated in this catalog. Consult the College of Arts and Sciences Advising Services for updated information.

Freshman Hours Credit
1 English 101-102 or equivalent ................................................................. 6
2 Biology 130, 140 ................................................................................ 8
3 Chemistry 120-130 .............................................................................. 8
4 Mathematics ....................................................................................... 3-8
5 Electives .............................................................................................. 3

Sophomore
1 Foreign Language (Intermediate-Level Sequence) ......................... 6
2 Chemistry 350, 360, 369 ....................................................................... 8
3 Humanities ........................................................................................... 3
4 Non-U.S. History .................................................................................. 6
5 Electives .............................................................................................. 3

Junior
1 Divisional Distribution: Humanities ....................................................... 3
2 Divisional Distribution: Social Science .................................................. 6
3 Upper-Level Distribution ..................................................................... 6
4 (A) U.S. Studies .................................................................................... 3
5 (B) Foreign Studies ................................................................................ 3
6 Electives (to reach total) .....................................................................

Total 93 minimum

Senior
Completion of major program and Bachelor of Arts/Bachelor of Science requirements or completion of one year at UT Health Science Center, Memphis.

Pre-Medical Concentration

The college offers a three-year program leading to a Bachelor of Science degree and a four-year program leading to a Bachelor of Arts or Science degree for students preparing for the study of medicine. Both programs are based upon the program outlined below. In the three-year program, the student must complete at least 93 credit hours while enrolled in the college, and the Bachelor of Science degree is granted upon satisfactory completion of the first year of study at UT Health Science Center, Memphis. In the four-year program, the degree is granted upon completion of 124 or more credit hours while enrolled in the college, including a major of 24 or more hours in addition to the courses outlined below. The requirements for a major are waived for those taking their fourth year at UT Health Science Center, Memphis. Students in either the three- or four-year program must complete the last 30 hours of credit in residence at the University of Tennessee, Knoxville, before entering UT Health Science Center, Memphis.

Although the Bachelor of Arts/Bachelor of Science degree is not required for admission to the College of Medicine, most students accepted into the study of medicine have the baccalaureate degree before admission. Therefore, pre-medical students are encouraged to plan to complete all requirements for the degree before enrolling in the College of Medicine.

Requirements for the Bachelor of Science • Pre-Professional Programs Major • Pre-Medical Concentration

Although not reflected in the showcase, students are required to meet the University General Education Requirement as stated in this catalog. Consult the College of Arts and Sciences Advising Services for updated information.

Freshman Hours Credit
1 English 101-102 or equivalent ................................................................. 6
2 Biology 130, 140 ................................................................................ 8
3 Chemistry 120-130 .............................................................................. 8
4 Mathematics ....................................................................................... 3-8
5 Electives .............................................................................................. 3

Sophomore
1 Foreign Language (Intermediate-Level Sequence) ......................... 6
2 Chemistry 350, 360, 369 ....................................................................... 8
3 Humanities ........................................................................................... 3
4 Non-U.S. History .................................................................................. 6
5 Electives .............................................................................................. 3

Total 124
Junior

- Humanities ................................................................. 3
- Social Science ............................................................ 6
- Upper-Level Distribution
  - (A) U.S. Studies ......................................................... 3
  - (B) Foreign Studies .................................................... 3
- Electives (to reach total)

Total 93 minimum

Senior
Completion of major program and Bachelor of Arts/Bachelor of Science requirements or completion of one year at UT Health Science Center, Memphis.

Total 124

Pre-Pharmacy Concentration

The College offers two programs preparing students for the study of pharmacy at UT Health Science Center, Memphis. The Doctor of Pharmacy (PharmD) degree is conferred by the College of Pharmacy upon completion of four years of professional study at Memphis following either of the two programs. Bulletins describing the pre-pharmacy programs in detail may be obtained from Arts and Sciences Advising Services.

The three-year program leading to a Bachelor of Science degree and the four-year program leading to either a Bachelor of Arts or Bachelor of Science degree from the University of Tennessee, Knoxville, as well as to the professional degree in pharmacy from UT Health Science Center, Memphis, are based upon the program outlined below. In the three-year program, the student must complete at least 100 credit hours while enrolled in the College of Arts and Sciences, and the Bachelor of Science degree is granted upon satisfactory completion of the first year of study in Memphis. In the four-year program the Bachelor of Arts or Bachelor of Science degree is granted upon completion of 124 or more credit hours while enrolled in the college, including a major of 24 or more hours in addition to the courses outlined below. The requirement for a major is waived for those taking their fourth year at the University of Tennessee Health Science Center, Memphis. Students in either the three- or four-year program must complete the last 30 hours of credit in residence at the University of Tennessee, Knoxville, before enrolling in the College of Pharmacy.

Requirements for the Bachelor of Science • Pre-Professional Programs Major • Pre-Pharmacy Concentration

Although not reflected in the showcase, students are required to meet the University General Education Requirement as stated in this catalog. Consult the College of Arts and Sciences Advising Services for updated information.

Freshman Hours Credit

- English 101-102 or equivalent ........................................ 6
- Chemistry 120-130 ..................................................... 8
- Biology 130 ............................................................... 8
- Biology 140 ............................................................... 4
- Mathematics ............................................................ 3-8
- Foreign Language (Intermediate-Level Sequence) .............. 6

Sophomore

- Chemistry 350-360 and 369 ........................................... 8
- Biochemistry and Cellular and Molecular Biology 230 .......... 5
- Biology 240 ............................................................... 4
- Social Science ........................................................... 6
- Physics 221 .............................................................. 4
- Communication Studies 210, 220, or 240 ....................... 3
- Humanities .............................................................. 3-6

Junior

- Biochemistry and Cellular and Molecular Biology 401-402 .... 8
- Ecology and Evolutionary Biology 240 ......................... 4
- Statistics 201 ............................................................ 3
- Social Science .......................................................... 0-6
- Non-U.S. History ....................................................... 6
- Humanities .............................................................. 3
- Upper-Level Distribution ............................................. 6-9
- Microbiology 210 or 310-319 ...................................... 3-5
- Microbiology 430 ...................................................... 3

Total 100 minimum

Senior

Completion of major program and BA/BS requirements, or completion of one year at UT Health Science Center in Memphis.

Total 124

- Biology 130 Biodiversity and 140 Organization and Function of the Cell are highly recommended as foundational courses for students interested in pursuing careers in pharmacy or other health professions. The concepts and material covered in these two courses provide the necessary background for standardized tests such as the PCAT. Pre-pharmacy students who have previously completed Biology 101 and 102 may substitute this sequence for Biology 130.

- Mathematics placement depends on high school courses and grades, ACT scores, and Bachelor of Arts/Bachelor of Science requirements. The College of Pharmacy requires one calculus course. Mathematics 125 or Mathematics 141 will fulfill this requirement. If a student is considering a major in a biological or physical science, he/she should consult an advisor on the selection of the appropriate Mathematics sequence.

- The College of Pharmacy requires a minimum of two courses in social science. This may include courses in economics, political science, psychology, and sociology. Bachelor of Arts students must complete a minimum of four courses from at least two areas; Bachelor of Science students must complete a minimum of two courses from at least two areas for the Social Science requirement for the College of Arts and Sciences.

- The College of Pharmacy requires a minimum of 6 hours of foreign language courses.

- The College of Pharmacy requires a minimum of 6 hours of foreign language courses.

- Students considering a Bachelor of Science in Biological Sciences should complete Microbiology 310-319 for this requirement since Microbiology 210 will not fulfill a major requirement. Microbiology 310 has a prerequisite of Biology 140 and a corequisite of Biology 240.
## Nuclear Medicine Technology Concentration

The nuclear medicine technology curriculum requires a minimum of 94 hours credit, including the college’s basic skills and distribution requirements, prior to application for admission to a final year of study at the University of Tennessee Medical Center, Knoxville. Students who complete the nuclear medicine technology program at UTMCK receive the Bachelor of Science with a major in pre-professional programs with a (concentration in nuclear medicine technology) from the College of Arts and Sciences.

Admission to the nuclear medicine technology program at UTMCK is at the discretion of the admissions committee of that department; successful completion of the three-year curriculum noted below does not assure admission to the program.

### Requirements for the Bachelor of Science • Pre-Professional Programs Major • Nuclear Medicine Technology Concentration

*Although not reflected in the showcase, students are required to meet the University General Education Requirement as stated in this catalog. Consult the College of Arts and Sciences Advising Services for updated information.*

<table>
<thead>
<tr>
<th>First Year</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1*English 101-102</td>
<td>6</td>
</tr>
<tr>
<td>1*English 101-102</td>
<td>6</td>
</tr>
<tr>
<td>1*Mathematics</td>
<td>8</td>
</tr>
<tr>
<td>1*Foreign Language (Intermediate-Level Sequence)</td>
<td>6</td>
</tr>
<tr>
<td>Non-U. S. History</td>
<td>6</td>
</tr>
<tr>
<td><strong>Sophomore</strong></td>
<td></td>
</tr>
<tr>
<td>1*Biology 130-140</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry 350, 360, 369</td>
<td>8</td>
</tr>
<tr>
<td>Communication Studies 210</td>
<td>3</td>
</tr>
<tr>
<td>1*Humanities</td>
<td>3</td>
</tr>
<tr>
<td>1*Social Science</td>
<td>6</td>
</tr>
<tr>
<td>Computer Science 100 or 102</td>
<td>3-4</td>
</tr>
<tr>
<td><strong>Junior</strong></td>
<td></td>
</tr>
<tr>
<td>Biochemistry and Cellular and Molecular Biology 230 and Ecology and Evolutionary Biology 240</td>
<td>9</td>
</tr>
<tr>
<td>Physics 221-222</td>
<td>8</td>
</tr>
<tr>
<td>1*Upper-Level Distribution</td>
<td>3</td>
</tr>
<tr>
<td>(A) U.S. Studies</td>
<td>3</td>
</tr>
<tr>
<td>(B) Foreign Studies</td>
<td>3</td>
</tr>
<tr>
<td>1*Electives (to reach total)</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>94 minimum</td>
</tr>
</tbody>
</table>

### Summer Semester

| 475 Nuclear Medicine Registry Review            | 2            |
| 440 Clinical Nuclear Medicine III              | 4            |
| 470 Clinical Practicum III                     | 6            |
| **Total**                                      | 44           |

1*Or equivalent honors courses.
2*Mathematics placement depends on high school courses and grades, ACT scores, and Bachelor of Arts/Bachelor of Science requirements. All students must complete the Mathematics and Quantitative Reasoning requirements as outlined in the Arts and Sciences curriculum. Mathematics 130 or any calculus course is a prerequisite to Physics.
3*This requirement presumes the student has sufficient high school background in a language to begin an intermediate language sequence at the University of Tennessee, Knoxville.
4*A total of 8 hours of biology is required.
5*Bachelor of Science students must complete a minimum of 2 courses from the three lists under the Humanities requirement; not more than 1 course may be taken in the arts.
6*Bachelor of Science students must complete a minimum of 2 courses from at least two areas.
7*Bachelor of Science students must complete one course from each of the two areas.

Depending upon course selection, a student may require fewer than the listed number of electives to reach the minimum total of 94 hours. Recommended electives include courses in computer science and business administration.

## Pre-Veterinary Medicine Concentration

The following program is designed for students who wish to pursue an Arts and Sciences degree while preparing for the study of veterinary medicine. Students in this program must complete at least 93 credit hours while enrolled in the College of Arts and Sciences, must satisfy the basic skills and distribution requirements, and must complete the last 30 hours in residence at the University of Tennessee, Knoxville, before enrolling in the College of Veterinary Medicine. A departmental major is not required. Upon successful completion of the first year (two semesters) of the professional veterinary medicine curriculum, the Bachelor of Science degree will be conferred by the College of Arts and Sciences.

Admission to the College of Veterinary Medicine is at the discretion of the Admissions Committee of that College; admission to and successful completion of this program does not assure admission to the College of Veterinary Medicine.

### Requirements for the Bachelor of Science • Pre-Professional Programs Major • Pre-Veterinary Medicine Concentration

*Although not reflected in the showcase, students are required to meet the University General Education Requirement as stated in this catalog. Consult the College of Arts and Sciences Advising Services for updated information.*

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1*English 101-102</td>
<td>6</td>
</tr>
<tr>
<td>1*Mathematics</td>
<td>8</td>
</tr>
<tr>
<td>Biology 130-140</td>
<td>8</td>
</tr>
<tr>
<td>1*Foreign Language (Intermediate-Level Sequence)</td>
<td>6</td>
</tr>
<tr>
<td>1*Mathematics</td>
<td>3-8</td>
</tr>
<tr>
<td><strong>Sophomore</strong></td>
<td></td>
</tr>
<tr>
<td>Biology 240</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 350, 360, 369</td>
<td>8</td>
</tr>
<tr>
<td>Physics 221-222</td>
<td>8</td>
</tr>
<tr>
<td>Non-U.S. History</td>
<td>6</td>
</tr>
<tr>
<td>1*Social Science</td>
<td>3</td>
</tr>
<tr>
<td><strong>Junior</strong></td>
<td></td>
</tr>
<tr>
<td>Biochemistry and Cellular and Molecular Biology 410 or 401 and 402</td>
<td>4-8</td>
</tr>
<tr>
<td>1*Social Science</td>
<td>3</td>
</tr>
<tr>
<td>1*Humanities</td>
<td>6</td>
</tr>
</tbody>
</table>
MEDICAL TECHNOLOGY MAJOR

Students who complete the medical technology curriculum receive the Bachelor of Science degree with a major in medical technology from the College of Arts and Sciences. The curriculum requires a minimum of 94 hours of credit which includes the basic skills and distribution requirements of the college prior to application for admission to the Medical Technology course of study. Completion of Medical Technology course of study at UTMCK awards the student a Certificate of Laboratory Training. Students are then eligible for examination by the Board of Registry of the American Society of Clinical Pathologists to earn certification as registered medical technologists.

Requirements for the Bachelor of Science • Medical Technology Major

Although not reflected in the showcase, students are required to meet the University General Education Requirement as stated in this catalog. Consult the College of Arts and Sciences Advising Services for updated information.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Year</strong></td>
<td></td>
</tr>
<tr>
<td>English 101-102</td>
<td>3</td>
</tr>
<tr>
<td>*Chemistry 120-130</td>
<td>8</td>
</tr>
<tr>
<td>*Biology 130,140</td>
<td>8</td>
</tr>
<tr>
<td>*Mathematics</td>
<td>6</td>
</tr>
<tr>
<td><strong>Sophomore</strong></td>
<td></td>
</tr>
<tr>
<td>*Foreign Language (Intermediate-Level Sequence)</td>
<td>6</td>
</tr>
<tr>
<td>Biochemistry and Cellular and Molecular Biology 230</td>
<td>5</td>
</tr>
<tr>
<td>Biology 240</td>
<td>5</td>
</tr>
<tr>
<td>Microbiology 310, 319</td>
<td>5</td>
</tr>
<tr>
<td>*Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Non-U.S. History</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>93 minimum</td>
</tr>
</tbody>
</table>

**Senior**

Completion of major program and Bachelor of Arts/Bachelor of Science requirements or completion of one year at the University of Tennessee College of Veterinary Medicine.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Upper-Level Distribution</strong></td>
<td></td>
</tr>
<tr>
<td>(A) U.S. Studies</td>
<td>3</td>
</tr>
<tr>
<td>(B) Foreign Studies</td>
<td>3</td>
</tr>
<tr>
<td>*Electives (to reach total)</td>
<td></td>
</tr>
<tr>
<td><strong>Senior</strong></td>
<td>124</td>
</tr>
</tbody>
</table>

1 Or equivalent honors courses.

2 This requirement assumes a student has had enough language background in high school to begin an intermediate language sequence at the University of Tennessee, Knoxville.

3 Mathematics placement depends on high school courses and grades, ACT scores, and Bachelor of Arts/Bachelor of Science requirements. Mathematics 130 or a calculus course is a prerequisite for Physics. All students must complete the Mathematics and Quantitative Reasoning requirement as outlined in the Arts and Sciences curriculum.

4 Bachelor of Arts students must complete a minimum of 2 courses from at least two areas; Bachelor of Science students must complete a minimum of 2 courses from at least two areas for the Social Science requirements.

5 Bachelor of Arts students must take at least one course from List A: Literature and at least one course from List B: Philosophical and Religious Thought plus one additional course from List A, B, or C. Bachelor of Science students must complete a minimum of 2 courses from the three lists; not more than 1 course may be taken from List C: Arts.

6 Bachelor of Arts students must complete a minimum of 2 courses in one of the two areas and one course from the remaining area. Bachelor of Science students must complete one course from each of the two areas.

7 Depending upon course selection, a student may require fewer than the listed elective hours to reach the minimum total of 93 hours.

8 Upper-Level Distribution

(A) U.S. Studies ................................................. 3
(B) Foreign Studies ......................................... 3
*Electives (to reach total)

**Total** 93 minimum
Anthropology (literally the study of humans) is a broad and diverse field concerned with all aspects of the human condition: past, present, and future. An undergraduate majoring in anthropology at the University of Tennessee, Knoxville, learns of this breadth and diversity by taking courses in cultural, biological, and archaeological anthropology. The major is designed so that all students are trained in these primary subfields, but the curriculum also allows the student to concentrate in those aspects of anthropology that she/he finds most interesting. The undergraduate who earns a BA with a major in anthropology from UT Knoxville is prepared to enter careers in a variety of fields such as health, education, government, law, social work, and human services. If the student is interested in a career as a professional anthropologist, graduate training is a necessity. The excellence of the faculty and the relevance of available courses in the department afford future anthropologists the undergraduate background necessary to pursue advanced degrees.

**Progression Requirements**

Progression into the anthropology major is based on performance in the three prerequisite courses: 110, 120, and 130. Students must maintain a grade point average of at least 3.0 for the three introductory courses, with none of the three grades below a C. Upon satisfactory completion of the prerequisites, the student may apply for progression into the anthropology major by completing a formal application for progression in the Anthropology Department and including with that application an academic history demonstrating satisfactory completion of the progression requirements. The Undergraduate Committee of the Anthropology Department will meet regularly to determine the status of these applications. Upon progression to the major, a department advisor will be assigned in consultation with the student.

**ANTHROPOLOGY MAJOR**

The anthropology major consists of 30 hours including 450 or 357 and 27 additional hours of upper-division course work in anthropology. This course work shall be distributed as follows:

- One course from archaeological method and theory: 361, 362, 440, 464.
- One course from archaeological area: 360, 363, 462, 463.
- One course from cultural area: 310, 311, 312, 313, 315, 316, 319, 320, 322.
- One course from cultural method and theory: 410, 411, 412, 413, 414, 416, 431.
- Two courses from biological anthropology: 480, 485, 490, 494, 495, 496.
- Remaining hours may be selected from any upper-division Anthropology courses.

Students with senior standing are encouraged to substitute appropriate 500-level courses (with permission of the instructor of the course and approval of the Department Head) for any portion of the above.

Continuation in the anthropology major requires maintenance of a 2.5 GPA or better in all anthropology courses. Students failing to meet this standard will be notified in writing that they are on probation and their records will be reviewed. Those who continue in probationary status for two consecutive semesters will be dropped from the major.

**Honors Concentration**

The Department of Anthropology offers honors seminars for juniors and seniors, leading to an honors concentration. The honors concentration consists of 357 and 457 plus 24 additional hours of upper-division course work in anthropology distributed as specified above for the major.

**Minor in Anthropology**

Anthropology 110, 120, 130 are prerequisite to a minor in anthropology consisting of 15 hours of upper-division anthropology courses (chosen in consultation with an anthropology advisor).

**School of ART**

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

Paul Lee, Director

**Professors**

Blain, S. J., MFA .................................................. Wisconsin
Brakke, M., MFA .......................................................... Yale
Goldenstein, M.B., MFA ........................................... Nebraska
Habel, D.M., PhD ................................................. Michigan
Lee, B., MFA ........................................................... Yale
Lee, P., MFA ......................................................... Cranbrook Academy of Art
Leland, W.E., MFA ................................................. Tennessee
Lyons, B., MFA ..................................................... Arizona State
Magden, N., PhD .................................................. Case Western Reserve
Moffatt, F.C., PhD .................................................. Chicago
Rising, T.J., MFA ................................................... Nebraska
Staples, C., MFA .................................................... Michigan State
Stewart, F.C., MFA ............................................... Clairemont
Wilson, D., MFA ................................................... Wisconsin
Yates, S.A., MFA ................................................... North Carolina (Greensboro)

**Associate Professors**

Brogden, S., MFA ............................................ New York State College of Ceramics at Alfred
Hiles, T.W., PhD .................................................. Pennsylvania State
Neff, A.L., PhD ..................................................... Pennsylvania
Jung, A., MFA ....................................................... Wisconsin

- One course from cultural area: 310, 311, 312, 313, 315, 316, 319, 320, 322.
- One course from cultural method and theory: 410, 411, 412, 413, 414, 416, 431.
- Two courses from biological anthropology: 480, 485, 490, 494, 495, 496.
Progression Requirements

The following core courses must be completed before students can progress into the program as art majors and before further art classes may be taken:

- Art 101
- Art 103
- Art History 162, 172, 173, or 183 (choose one)

Those applying will be admitted into the program in rank order of cumulative average as space allows. The overall record will be evaluated for quality and seriousness of purpose. Excessive absences, withdrawals, incompletes or repeated courses may result in denial of progression. Progression into the School of Art does not guarantee progression into a chosen concentration. Progression into a concentration will follow successful completion of a concentration Portfolio Review.

BACHELOR OF FINE ARTS • STUDIO ART MAJOR

The Bachelor of Fine Arts with a major in Studio Art is a professionally-oriented degree especially intended for those students planning careers or graduate study in the visual arts. All students seeking studio degrees (Bachelor of Arts Studio, Bachelor of Fine Arts Studio) must present and pass appropriate Portfolio Review for their area of study. It should not be assumed that a high grade point average in the major itself assures passing Portfolio Review. The Portfolio Review is recommended in the sophomore year and is intended to provide students with an overview assessment of their potential for success in the intended area of study early enough to allow a student to make a program change should that be advisable. Before choosing a concentration, students should contact their intended area to see what options are offered in the event they do not pass the appropriate Portfolio Review. All studio courses require 3 hours per week attendance for each credit hour earned. Completing the Bachelor of Fine Arts program may take more than 8 semesters. Students are urged to seek departmental advisement each semester to ensure proper scheduling. Students seeking the Bachelor of Fine Arts should also consider pursuing a minor in art history.

Transfer students are advised that a minimum of 21 hours in studio courses, and 6 upper-division hours in art history, must be earned at the University of Tennessee, Knoxville. Transfer students must have a minimum overall GPA of 3.00 in art and art history courses and may be required to present a portfolio. Those students who have not taken any art courses must take the sequence of courses required of freshmen (Progression Requirements). Students should be cautioned that art courses taken at another institution may not apply toward their concentration. Art Design 252, Art Drawing 212, and Art Painting 214 must be taken at the University of Tennessee, Knoxville. Courses not accepted for application toward a concentration may be counted as studio electives.

No grade below C in art courses may be applied to the Bachelor of Fine Arts major. A minimum of 42 credit hours, 300 level or above, must be earned prior to graduation.

Students may be accepted into advanced media concentrations in ceramics, drawing, painting, media arts, printmaking, sculpture, and watercolor after passing the appropriate portfolio course.

Ceramics Concentration

Requirements for the Bachelor of Fine Arts • Studio Art Major • Ceramics Concentration

Exempt from the University General Education Requirement until Fall 2005

<table>
<thead>
<tr>
<th>Core</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 101,103</td>
<td>4</td>
</tr>
<tr>
<td>Art 295</td>
<td>3</td>
</tr>
<tr>
<td>Art History 172 and 173 and 162 or 183</td>
<td>9</td>
</tr>
<tr>
<td>Art History Electives</td>
<td>9</td>
</tr>
<tr>
<td>One course from each of the following 6 areas:</td>
<td>18</td>
</tr>
<tr>
<td>Art Ceramics, Art Drawing, Art Media Arts, Art Painting/Watercolor, Art Printmaking, and Art Sculpture</td>
<td>18</td>
</tr>
</tbody>
</table>

Concentration

Ceramics 221 or 222 | 3 |
Art Ceramics Portfolio Review 320 | 3 |
Ceramics 321, 322 (prerequisite for all 400-level Ceramics courses) | 6 |
Ceramics 421, 422, 429, 493, or 494 | 14 |
Approved Concentration Electives: | 9 |
9 hours from the following: Art Ceramics 424, 429; Art Drawing 212; Art Sculpture 241, 242, 243, 245, 246; Art Printmaking 262, 263; Art Painting 213, 214, 215; Arrowmont Ceramics 420 |

Studio Electives

Additional hours in studio courses to be completed in the School of Art or our affiliated facility, Arrowmont School of Arts and Crafts. Students may also apply a maximum of 6 hours of approved studio courses from Architecture, Art Education, Computer Science, Journalism and Electronic Media, Human Resource Development, Interior Design or Theatre. Students electing an additional major in Art Education and licensure to teach in schools K-12 may apply 13 hours in undergraduate Art Education courses |

General Curriculum

English Composition | 6 |
Non U.S. History/Social Science | 6 |
Natural Science/Mathematics | 6-8 |
Arts and Sciences Non-Art Electives | 14-16 |

Total 127

Drawing Concentration

Requirements for the Bachelor of Fine Arts • Studio Art Major • Drawing Concentration

Exempt from the University General Education Requirement until Fall 2005

<table>
<thead>
<tr>
<th>Core</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 101,103</td>
<td>4</td>
</tr>
<tr>
<td>Art 295</td>
<td>3</td>
</tr>
<tr>
<td>Art History 172 and 173 and 162 or 183</td>
<td>9</td>
</tr>
<tr>
<td>Art History Electives</td>
<td>9</td>
</tr>
<tr>
<td>One course from each of the following 6 areas:</td>
<td>18</td>
</tr>
<tr>
<td>Art Ceramics, Art Drawing, Art Media Arts, Art Painting/Watercolor, Art Printmaking, and Art Sculpture</td>
<td>18</td>
</tr>
</tbody>
</table>
Concentration
Art Drawing 212 (may be repeated) .................................................. 3
Art Drawing Portfolio Review 312 .................................................. 0
Art Drawing 311 (for two semesters) .............................................. 8
Art Drawing 411 (for two semesters) .............................................. 12
Approved Concentration Electives:
9 hours from the following: Art Drawing 219/419 (maximum 6 hours);
Art Painting 213, 214, 215, 216; Art Media Arts 231;
Art Printmaking 262, 263 ................................................................. 9

Studio Electives
Additional hours in studio courses to be completed in the School of Art or
our affiliated facility, Arrowmont School of Arts and Crafts. Students may also apply a maximum of 6 hours of approved studio
courses from Architecture, Art Education, Computer Science,
Journalism and Electronic Media, Human Resource Development,
Interior Design or Theatre. Students electing an additional major in Art
Education and licensure to teach in schools K-12 may apply
13 hours in undergraduate Art Education courses ....................... 18

General Curriculum
English Composition ..................................................................... 6
Non U.S. History/Social Science .................................................... 6
Natural Science/Mathematics ....................................................... 6-8
Arts and Sciences Non-Art Electives ............................................ 14-16

Total 127

Media Arts Concentration
Requirements for the Bachelor of Fine Arts • Studio Art
Major • Media Arts Concentration
Exempt from the University General Education Requirement until
Fall 2005

Core
Art 101, 103 .................................................................................. 4
Art 295 ......................................................................................... 3
Art History 172 and 173 and 183 or 162 ..................................... 9
Art History Electives ...................................................................... 6
Media Arts 231, 235, 236 ............................................................... 9

One course from each of the following 5 areas:
Art Drawing, Art Painting, Art Ceramics, Art Ceramics, Art Drawing, Art Media Arts, Art Painting/
Art Sculpture, Art Printmaking .................................................. 15

Concentration
Media Arts 330 (Portofolio Review) .............................................. 0
(Perequisite to 300 and 400 level courses)
(Art History 403 (History of Photography) ................................. 3
Art Media 433 (History of Modern Art and Film) ...................... 3
Art Media 435 (Cinematography as Art) ...................................... 6
Art Media 436 (Video Art) ............................................................ 6

Art Media 331 (Photography II) or Art Media 341
(Digital Photography I) .............................................................. 4

Art Media 431 (Photography III) or
Art Media 441 (Digital Photography II) ..................................... 4
300 and 400 level electives in Media Arts .................................... 6

Studio Electives
Additional hours in studio courses to be completed in the School
of Art or our affiliated facility, Arrowmont School of Arts and Crafts. Students may also apply a maximum of 6 hours of approved studio
courses from Architecture, Art Education, Computer Science,
Journalism and Electronic Media, Human Resource Development,
Interior Design, or Theatre. Students electing an additional major in Art Education and licensure to teach may apply 13 hours in
undergraduate Art Education courses ...................................... 15

General Curriculum
English Composition ..................................................................... 6
Social Science .............................................................................. 6
Natural Science/Mathematics ......................................................... 12-14
Arts and Sciences Non-Art Electives ............................................ 6-9

Total 125-126

Painting Concentration
Requirements for the Bachelor of Fine Arts • Studio Art Major • Painting Concentration
Exempt from the University General Education Requirement until
Fall 2005

Core
Art 101, 103 .................................................................................. 4
Art 295 ......................................................................................... 3
Art History 172 and 173 and 162 or 183 ..................................... 9
Art History Electives ...................................................................... 9
One course from each of the following 6 areas:
Art Ceramics, Art Drawing, Art Media Arts, Art Painting/
Watercolor, Art Printmaking, and Art Sculpture ....................... 18

Concentration
Painting 214 (may be repeated) ................................................... 3

Art Painting Portfolio Review 314
(Satisfactory/No Credit Grading) .................................................. 0

Painting 313 (for two semesters) .................................................. 8

Painting 413 (for two semesters) .................................................. 12

Approved Concentration Electives:
9 hours from the following: Art Drawing 219/419 (maximum 6 hours);
Art Painting 215; 216; Art Media Arts 231; Art Drawing 212 ............... 9

Studio Electives
Additional hours in studio courses to be completed in the School of Art
or our affiliated facility, Arrowmont School of Arts and Crafts.
Students may also apply a maximum of 6 hours of approved studio
courses from Architecture, Art Education, Computer Science,
Journalism and Electronic Media, Human Resource Development,
Interior Design or Theatre. Students electing an additional major in Art
Education and licensure to teach in schools K-12 may apply
13 hours in undergraduate Art Education courses ....................... 18

General Curriculum
English Composition ..................................................................... 6
Non U.S. History/Social Science .................................................... 6
Natural Science/Mathematics ......................................................... 6-8
Arts and Sciences Non-Art Electives ............................................ 14-16

Total 127

Printmaking Concentration
Requirements for the Bachelor of Fine Arts • Studio Art
Major • Printmaking Concentration
Exempt from the University General Education Requirement until
Fall 2005

Core
Art 101, 103 .................................................................................. 4
Art 295 ......................................................................................... 3
Art History 172 and 173 and 162 or 183 ..................................... 9
Art History Electives ...................................................................... 9
One course from each of the following 6 areas:
Art Ceramics, Art Drawing, Art Media Arts, Art Painting/
Watercolor, Art Printmaking, and Art Sculpture ....................... 18
Watercolor Concentration
Requirements for the Bachelor of Fine Arts • Studio Art Major • Sculpture Concentration

Exempt from the University General Education Requirement until Fall 2005

<table>
<thead>
<tr>
<th>Core</th>
<th>Hours Credit</th>
</tr>
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<tr>
<td>Art 101,103</td>
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<tr>
<td>Art 295</td>
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<tr>
<td>Art History 172 and 173 and 162 or 183</td>
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<tr>
<td>Art History Electives</td>
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<tr>
<td>One course from each of the following 6 areas: Art Ceramics, Art Drawing, Art Media Arts, Art Painting/Watercolor, Art Printmaking, and Art Sculpture</td>
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<table>
<thead>
<tr>
<th>Sculpture Concentration</th>
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</table>

Core
Art 101,103 4
Art 295 3
Art History 172 and 173 and 162 or 183 9
Art History Electives 9
One course from each of the following 6 areas: Art Ceramics, Art Drawing, Art Media Arts, Art Painting/Watercolor, Art Printmaking, and Art Sculpture 18

Concentration
Sculpture 200 level course 3
Art Sculpture Portfolio Review 340 (Satisfactory/No Credit Grading) Prerequisite to 300- and 400-level courses 0
Sculpture 300 and 400 level courses 20
Approved Concentration Electives:
9 hours from the following-Art Drawing 212 (maximum 6 hours); Art Drawing 311; Art Drawing 419 (maximum 6 hours); Art Media Arts 231; Art Printmaking 469 (3 hours) 9

Studio Electives
Additional hours in studio courses to be completed in the School of Art or our affiliated facility, Arrowmont School of Arts and Crafts.
Students may also apply a maximum of 6 hours of approved studio courses from Architecture, Art Education, Broadcasting, censure to teach in schools K-12 may apply 13 hours in undergraduate Art Education courses 18

General Curriculum
English Composition 6
Non U.S. History/Social Science 6
Natural Science/Mathematics 6-8
Arts and Sciences Non-Art Electives 14-16

Total 127

BACHELOR OF FINE ARTS • MAJOR IN STUDIO ART AND ADDITIONAL COURSES IN ART EDUCATION

The School of Art recommends the Bachelor of Fine Arts for those students pursuing licensure to teach art in schools K-12. These students must also contact the College of Education, Health, and Human Sciences for further requirements. Up to 13 credit hours of art education courses may be used as studio electives for those pursuing the BFA and licensure to teach.

BACHELOR OF FINE ARTS • GRAPHIC DESIGN MAJOR

The graphic design major is specifically designed to provide the basic visual education for students who wish to pursue careers in graphic design-related fields such as advertising, art direction, three-dimensional design, publications, or electronic media.

Transfer students are advised that a minimum of 21 hours in studio courses and 6 upper-division hours in art history must be earned at the University of Tennessee, Knoxville, as well as Art Design 252. Transfer students who expect to enroll in 300 (junior level) courses must present a portfolio of 10-15 works, the majority of which must be in graphic design.
No grade below C in art courses may be applied to the Bachelor of Fine Arts degree. A minimum of 42 credit hours, 300 level or above, must be earned prior to graduation.

A minimum of 127 credit hours are required for graduation. Students are advised that courses in graphic design must be taken in sequence, and that successful completion of Portfolio Review (350) is prerequisite to all upper-division courses.

Students must complete 351 and 356 with a grade of C or better by the end of the second fall semester following successful completion of Portfolio Review (350). If 351 and 356 are not successfully completed in this time, the student must resubmit a portfolio to regain entrance into the junior program. Resubmission of the portfolio must occur during the scheduled spring Portfolio Review.

Requirements for the Bachelor of Fine Arts • Graphic Design Major

Exempt from the University General Education Requirement until Fall 2005

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<thead>
<tr>
<th>Art Core</th>
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<tr>
<td>Art Drawing 211, 212; Art Painting 213 (or 215); Art Media Arts 231</td>
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</table>

Graphic Design

Art Graphic Design 151 | 3 |
Art Graphic Design 251, 252, 351, 352, 356, 451, 452, 455 (in sequence) | 24 |
Art Graphic Design 350 | 0 |
Portfolio Review (Satisfactory/No Credit Grading) | 12 |
Art Graphic Design 444 (maximum 6 hours) and/or 456 | 13-15 |

Design and Professional Electives

Art Graphic Design 254, 256, 259, 354, 396, 405, 453, 454, 459; Art Media Arts 235, 236, 331, 435, 436; Art 491, 492; Advertising 250, 350, 490 | 12 |

Studio Electives

Students must choose a total of 9 hours from a minimum of 2 categories:
(1) Art Printmaking; (2) Art Ceramics; (3) Art Sculpture; or (4) Art Media Arts | 9 |

General Curriculum

English Composition | 6 |
Non U.S. History/Social Science | 6 |
Natural Science/Mathematics | 6-8 |
Arts and Sciences Non-Art Electives | 13-15 |

Total 127

ART HISTORY MAJOR

Requirements for the Bachelor of Arts • Art History Major

Hours Credit

Prerequisites: Art History 172, 173, and 162 or 183 (or their Honors equivalents) with a grade of C or better | 9 |
Art History courses numbered 300 and above | 21 |
Students are required to take at least one course in four of the following areas:
• Medieval/Early Renaissance—Art History 425, 431, 441, 451 |
• Renaissance/Baroque—Art History 442, 452, 453 |
• American—Art History 471, 472, 473, 483 |
• 19th/20th Century—Art History 403, 472, 474, 475, 476, Art Media Arts 433 |
• Non-Western—Art History 411, 415, 419, 461, 462, 463 |
• 9 Art History elective hours or from courses in the Departments of Classics, Religious Studies, or School of Architecture in consultation with departmental advisor |
Art 481 (Museology I: Museums, Purpose, and Function) | 3 |
Art History 376 (Seminar in Art History) | 3 |
Studio courses numbered 200 and above | 3 |

Total 39

Undergraduate work in art history is enhanced by knowledge of at least one foreign language and by additional studio art experience. Graduate work normally requires reading knowledge of German, French, and any other language appropriate to an area specialization.

Students anticipating possible careers in the museum or gallery field are advised that elective hours in Art 482, Museology II, should be considered.

STUDIO ART MAJOR

Requirements for the Bachelor of Arts • Studio Art Major

Prerequisites

Art History 172, 173, and 162 or 183 (or their Honors equivalents) with a grade of C or better | 9 |
Art History 162, 172, 173, 183 (any 2 with a grade of C or better) and 3 additional hours | 9 |

Major

Studio courses numbered 200 and above, including a minimum of 15 hours in 300-400 level courses | 24 |

Total 40

MINORS

In addition to the general Bachelor of Arts requirements, the following are required for minors in the School of Art:

Minor in Art History

Prerequisites

Art History 172, 173, and 162 or 183 (or their Honors equivalents) with a grade of C or better | 9 |

Minor

Art History courses numbered 200 and above | 15 |

Total 24

Minor in Studio Art

Prerequisites

Art 101, 103, 295 |
Art History 172, 173, 162, 183 (or their Honors equivalents) (any 2, one of which must be 172 or 173) |

Minor

Studio courses which include a minimum of 8 additional upper-division hours | 15 |

Total 28

Asian Studies

See Interdisciplinary Programs.

Astronomy

See Department of Physics and Astronomy.
The Department of Audiology and Speech Pathology offers course work in the scientific study of human communication sciences and disorders. The two undergraduate majors (audiology and speech pathology) are preparatory to graduate work and to professional certification in some aspect of speech, language, and hearing disorders. The master’s degree is required for professional certificates and employment positions. Information about the audiology and speech pathology programs may be obtained from the departmental office, South Stadium Hall, and students are strongly encouraged to consult with the undergraduate advisor in the department as early as possible in their programs. Suggested elective courses for students not majoring in audiology or speech pathology include 300, 302, 303, 305, 306, 320, and 473.

Applicants for enrollment in clinical practice must submit an application to the departmental Clinical Director. Requirements for enrollment in practicum courses (434 for speech pathology or 445 for audiology) include a minimum cumulative GPA of 2.7 (or 3.0 in the last 30 hours of enrollments), a minimum of C in all courses taken within the department, successful completion of 433, and a minimum GPA of 2.75 within the major.

Students who fail to satisfy the above prerequisites for clinical practicum experience may graduate with a degree from the department, but will not be recommended for graduate study at the University of Tennessee, Knoxville. Requests for exceptions to this rule may be submitted to the departmental Admissions Committee.

Additional requirements for professional certification include courses in biological/physical sciences, mathematics, and at least six semester hours in behavioral and/or social sciences which pertain to the understanding of normal/abnormal behavior. Students majoring in audiology and speech pathology are strongly encouraged to consult with an advisor before selecting elective courses.

**AUDIOLOGY MAJOR**


**SPEECH PATHOLOGY MAJOR**

The speech pathology major consists of Audiology and Speech Pathology 300, 302, 303, 305, 306, 320, 433, 435, 461, 473, and 494; and one course from the following courses: Linguistics 200, 371, 372, 411, 471, or 472.
Biochemistry, cell biology, and molecular biology study the function of cells and organisms at the molecular level. The concentration includes the study of the structure and function of proteins, lipids, carbohydrates, DNA and RNA, as well as how these and other molecules control cellular and organismal function. The curriculum prepares students for a variety of careers in biological research, biotechnology, the health professions or education.

Students wishing to emphasize study in this area elect to major in biological sciences with a concentration in biochemistry and cellular and molecular biology. See the description of the major and concentration under Division of Biology for requirements.

The Division of Biology consists of four departmental units: Biochemistry and Cellular and Molecular Biology (BCMB); Ecology and Evolutionary Biology (EEB); Microbiology; and Plant Biology (Botany). Each department offers a separate concentration within a common Bachelor of Science degree major, titled biological sciences, followed by the concentration name. (Honors options are described below.)

Students wishing to declare a major in biological sciences will be assigned a faculty advisor in one of the biological sciences departments in consultation with the student. Declaration of a biological sciences major should occur as soon as the student decides on this course of study, but not later than three semesters before the expected graduation date in order to ensure that requirements can be met in a timely manner.

Minor in Biological Sciences

A minor in biological sciences consists of 16 hours. Prerequisites are Botany 110-120 or Biology 130-140; and Chemistry 120-130. Requirements are Biology 240 and 250; and at least 8 hours chosen from 300- and 400-level courses in biochemistry, cellular and molecular biology; botany; ecology and evolutionary biology; and microbiology. In meeting the upper-division minimum requirement, not more than 6 hours may be credited from any one biological science department, and not more than 3 hours of undergraduate research may be credited.

Biochemistry and Cellular and Molecular Biology Concentration

The concentration consists of 32 hours including Chemistry 350-360-369, Biochemistry and Cellular and Molecular Biology 401-402, and:

- At least 16 additional credit hours selected from biochemistry and cellular and molecular biology courses numbered 300 or above (except Biochemistry and Cellular and Molecular Biology 310, 410, 457) or from the following courses in other departments: Microbiology 310-319, 410, 411, 420-429, 430, 440; Botany 321, 404; Ecology and Evolutionary Biology 350, 360, 460.
- At least two of the 16 credit hours must be selected from the following courses: Biochemistry and Cellular and Molecular Biology 403, 416, 419, 429 and 452, and Biology 401.
- At least three of the 16 credit hours must be selected from the following courses: Biochemistry and Cellular and Molecular Biology 440, Botany 321, and Microbiology 310. No more than 9 of the 16 credit hours may be in non-Biochemistry and Cellular and Molecular Biology courses.

Honors Option

An honors option is offered to students with a cumulative GPA in biological sciences prerequisite courses of 3.5 or above and who have completed Biology 130-140-240-250. The honors option also requires a substantive research project carried out under the supervision of a biochemistry and cellular and molecular biology faculty member and a thesis describing the results of that project. The thesis must be approved by the faculty supervisor.

Ecology and Evolutionary Biology Concentration

The concentration consists of 35 hours:

- Chemistry 350-360-369 or 350, 310-319 or Chemistry 310-319 and Biochemistry and Cellular and Molecular Biology 310.
• Quantitative requirement: One course from (note mathematics pre-requisites): Mathematics 231 (Prereq. 141-142); Mathematics 251 (Prereq. 141-142); Mathematics 405 (Prereq. 141-142 or 151-152); Statistics 201.

Mathematics 141-142 is recommended for students with a strong interest in quantitative ecology and is prerequisite to several courses that require the ecology and evolutionary biology quantitative requirement.

• Upper-division courses: A total of 24 additional hours is required at the 300 level or above to include at least 15 hours from ecology and evolutionary biology, and at least one course from each of the following four categories: Evolution—Ecology and Evolutionary Biology 460. Ecology—Ecology and Evolutionary Biology 446, 470, 484, 431; Microbiology 470. Organismal Biology—Ecology and Evolutionary Biology 350, 360, 380, 450, 461, 474; Botany 310, 330; Microbiology 310/119. Physiology—Botany 321; Biochemistry and Cellular and Molecular Biology 440, 415; Microbiology 310.

• The remaining hours for the ecology and evolutionary biology concentration can include any of the remaining ecology and evolutionary biology courses on these lists, other upper-division ecology and evolutionary biology courses, or appropriate upper-division courses offered by the following departments: Anthropology; Botany; Earth and Planetary Sciences; Forestry, Wildlife and Fisheries; Geography; Microbiology; Plant Sciences. A list of approved appropriate courses may be obtained from the office of either the Division of Biology or Ecology and Evolutionary Biology’s Web page. Other courses, related to the student’s determined interests, may be approved by petition to the department and the division. Courses applied to the major must include at least 4 hours at the 400-level and one laboratory course.

Honors Option
Requirements for the honors option are as follows:
• fulfill all requirements for the biological sciences major—ecology and evolutionary biology concentration.
• a GPA of 3.5 in all the 300-level and above courses from the concentration and an overall GPA of 3.2.
• a minimum of 4 hours of Botany 441-442 (undergraduate research) during the junior and senior year;
• a senior thesis that is acceptable to the student’s committee.

Students interested in pursuing an honors option should contact the Botany office for details.

Microbiology Concentration
The concentration consists of 34 hours including Chemistry 350-360-369, Biochemistry and Cellular and Molecular Biology 410, Microbiology 310-319, 320-329, and 12 additional hours of 400-level microbiology courses.

Honors Option
An honors option is offered to selected students who have completed the required 300-level microbiology courses with a minimum grade point average of 3.5 in microbiology courses and 3.2 for all courses. In addition to these 300-level courses, an honors option requires successful completion of 15 additional hours of 400-level microbiology courses, including 401 and 402.

Plant Biology Concentration
The plant biology concentration consists of 32-34 hours including
• Chemistry 350-360-369 or 350, 310-319 and Biochemistry and Cellular and Molecular Biology 310;
• The following botany courses: Botany 310; Botany 321; Botany 330; Botany 404 or 431; Botany 400, or 441, or 442; plus 9 additional hours of other upper-division courses offered by Botany or other life science departments (except Botany 305, 306, or 309).

A list of approved courses from other life science departments is available in the Division of Biology office.

Honors Option
Requirements for an honors option are as follows:
• a GPA of 3.5 in all the 300-level and above courses from the concentration and an overall GPA of 3.2;
• a minimum of 4 hours of Botany 441-442 (undergraduate research) during the junior and senior year;
• a senior thesis that is acceptable to the student’s committee.

Students interested in pursuing an honors option should contact the Botany office for details.

Department of
BOTANY
http://fp.bio.utk.edu/botany
Edward E. Schilling, Head

Professors
Hickok, L., PhD ............................................... Massachusetts
Hughes, K., PhD .............................................. Utah
Mullin, B., PhD ........................................ North Carolina State
Petersen R. (Distinguished Professor), PhD ....................... Columbia
Pigliucci, M., PhD ........................................ Connecticut
Schilling, E., PhD ........................................ Indiana
Schwarz, O., PhD ........................................ North Carolina State

Associate Professors
Smith, D., PhD ............................................... Tennessee
von Armin, A., PhD ............................................ East Anglia (UK)
Wofford, B.E. (Curator of Herbarium), PhD ................. Tennessee

Assistant Professors
Nebenführ, A., PhD ........................................ Oregon State
Williams, J., PhD ........................................... Georgia

Lecturer
McFarland, K., PhD ........................................ Tennessee
The plant biology concentration of the biological sciences major is offered by the Department of Botany and is designed to provide students with exposure to the broad range of subdisciplines within the plant sciences from the organismal to the molecular, including exposure to both field- and laboratory-based learning experiences. Students within the plant biology concentration are encouraged to become involved in ongoing faculty research projects within the department in the areas of floristics, systematics, physiology, genetics, molecular and cellular biology, ecology, and population and evolutionary biology.

Students wishing to emphasize study in this area elect to major in biological sciences with a concentration in plant biology. See the description of the major and concentration under Division of Biology for requirements.

**Department of CHEMISTRY**  
http://www.chem.utk.edu

C.E. Barnes, Interim Head

**Professors**  
Adcock, J.L., PhD ................................................., Texas  
Baker, D.C., PhD ......................................................, Ohio State  
Barnes, C.E., PhD ....................................................., Stanford  
Bartmess, J.E., PhD .................................................., Northwestern  
Compton, R.N., PhD .............................................., Tennessee  
Cook, K.D., PhD ...................................................., Wisconsin  
Dunning, Jr., T.H. (Distinguished Scientist, Science Alliance Center of Excellence), PhD .........................................................., California Institute of Technology  
Feigerle, C.S., PhD ..................................................., Colorado  
Guiochon, G.A. (Distinguished Scientist, Science Alliance Center of Excellence), PhD ............................................., Université de Paris (France)  
Kabalka G.W. (Robert H. Cole Professor, Alumni Distinguished Service Professor), PhD ........................................, Université de Paris (France)  
Kovac, J.D., PhD ......................................................, Yale  
Larese, J.Z., PhD ...................................................., Wesleyan  
Magid, L.J., PhD ...................................................., Tennessee  
Magid, R.M., PhD ...................................................., Yale  
Mays, J.W. (Distinguished Scientist, Science Alliance Center of Excellence), PhD ................................................., Akron  
Pagni, R.M., PhD ...................................................., Wisconsin  
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., PhD ................................................., North Carolina State  
Wunderlich, B. (Distinguished Scientist), PhD ............................................, Northwestern  
Xue, Z., PhD ........................................................., UCLA

**Associate Professors**  
Dadmun, M.D., PhD .................................................., Massachusetts  
Gilman, S.D., PhD ..................................................., Penn State  
Hinde, R.J., PhD ....................................................., Chicago  
Musfeldt, J.L., PhD .................................................., Florida  
Schell, F.M., PhD ...................................................., Indiana  

**Assistant Professors**  
Turner, J.F.C., PhD .................................................., Oxford (UK)  
Young, D.G.J., PhD ................................................., Ohio State  
Zhang, X., PhD ....................................................... Pennsylvania  
Zhao, B., PhD ....................................................... Akron

The Department of Chemistry presents to the next generation of chemists and chemically literate citizens an integrated program of teaching and research that will prepare them to respond responsibly to current and future national needs. To satisfy our diverse clientele, the educational program is continually improved and includes research, classroom, and laboratory activities. In addition, we endeavor to maintain local responsibilities in support of the university’s mission for public service.

**Placement in General Chemistry Sequences**

The sequences which meet all of the requirements of a year of general chemistry and which serve as prerequisite for upper-division courses are 120-130 and 128-138; chemistry majors are strongly urged to take the latter sequence. Courses 100 and 110 emphasize organic and biochemistry, and may not be used as prerequisite for other chemistry courses. Chemistry 150 and 160 are designed to increase the chemistry literacy and consumer knowledge of students and may not be used as prerequisites for any other chemistry course.

It is possible to move from one sequence to another if permission for substitution is obtained in advance. For example, a student who finds a need to complete the 120-130 series after having completed 100 may substitute 100 for 120 with approval of the Department of Chemistry and may then take 130. Credit may be received for only one of the courses 100, 120, or 128.

In any chemistry course above the freshman level which has Chemistry 130 as a prerequisite, 110 may be used as a prerequisite with approval of the Department of Chemistry.

Chemistry 128-138 is an honors course designed for the student who has already made considerable progress in science. Class size is limited to promote faculty-student interaction. Selection is based on ACT scores, high school chemistry grade, and, if necessary, performance on a placement examination to be given during the first class meeting. A student receiving a passing grade below B in 128 will complete the year’s work by taking 130.

Beginning students who have had high school chemistry and who have had additional experience (e.g. summer institute study, special research projects, home laboratory) are invited to apply during the summer to the head of the department for permission to take a proficiency examination in one or more semesters of general chemistry. If a satisfactory grade is made on the examination, credit will be allowed for the semester (or course) for which the exam was taken. The Department of Chemistry gives credit in general chemistry to students who present satisfactory scores on the Chemistry Advanced Placement Examination.

**Cooperative Program**

A cooperative program is available to students who are chemistry majors. After the freshman year, the student alternates a semester in school with a semester in a job in the chemical industry. The program normally requires five years and involves a total of four work semesters and eight school semesters. Students are required to have at least a 2.5 average to enter and remain in the program. Some opportunity exists for students to enter the program later than the end of the freshman year. Interested students should make application to the head of the department at least one semester in advance of the beginning of the first work period. Further information will be supplied on request.

**CHEMISTRY MAJOR**

Students who desire to major in chemistry may select from either of two courses of study: Bachelor of Science or Bachelor of Science in Chemistry.
**Bachelor of Science in Chemistry**

The Bachelor of Science in Chemistry is approved by the Committee on Professional Training of the American Chemical Society. It is designed to train students to go directly into positions in the chemical industry or to enter graduate study leading to positions in research and college teaching. A student in the Bachelor of Science in Chemistry program should, at the earliest opportunity, ask the Arts and Sciences Advising Center for assignment of a faculty advisor in the Department of Chemistry. For further information, contact the Head of Department of Chemistry, 552 Buehler Hall.

**Requirements for the Bachelor of Science in Chemistry • Chemistry Major**

Although not reflected in the showcase, students are required to meet the University General Education Requirement as stated in this catalog. Consult the College of Arts and Sciences Advising Services for updated information.

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<th>Freshman</th>
<th>Hours Credit</th>
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<tr>
<td>Mathematics 141-142</td>
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<td>Electives</td>
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Total 126-132

1 Preferably chosen from German, French, Russian or Japanese; the College of Arts and Sciences requires that a student demonstrate intermediate-level competence in whatever foreign language is chosen.
2 The distribution requirements of the College of Arts and Sciences are satisfied by taking: Non-U. S. History (6 hours), Social Science (6 hours), Humanities (6 hours), and Upper Level Distribution (3 hours in either U.S. Studies or Foreign Studies and 3 hours Capstone Experience). The number of credit hours shown in each year of the curriculum are merely intended as guidelines.
3 It is recommended that a portion of these elective hours be applied to advanced courses in biochemistry and cellular and molecular biology, mathematics, physics, or chemical, metallurgical, and polymer engineering.
4 To be chosen from Chemistry 400, 401, 408, 420, 450, and 490.

**Bachelor of Science**

The Bachelor of Science degree is available to students who desire a more flexible program. Prerequisites to the major: Chemistry 120-130 or 128-138 and Mathematics 141-142 or 151-152. Corequisites to the major: Physics 221-222, 135-136, or 137-138.

The major consists of Chemistry 240, 310, 319, 350-360, 369, 471-481 or 473-483, 479 and 10 hours of additional work in chemistry numbered above 200 that includes at least one laboratory course or lecture/laboratory course; up to 6 hours of Biochemistry and Cellular and Molecular Biology 410-420 or 401-402 or Geology 460 may be applied to the 10-hour requirement.

For students planning careers in chemistry, the recommended courses (from the list above) are Mathematics 141-142, Physics 135-136 or 137-138, and Chemistry 473-483; although not required, certain additional courses are strongly suggested for students planning to become chemists: Mathematics 241 and Chemistry 230, 320, 329, 406. Because professional chemists need a reading knowledge of foreign languages, intermediate level competency should be acquired in German, French, Russian or Japanese. Students who are undecided about their career goals should consult the head of the department at the earliest opportunity. Unlike the Bachelor of Science in Chemistry, the regular Bachelor of Science degree is not approved by the Committee on Professional Training of the American Chemical Society.

**Honors Concentration**

Candidates for the honors concentration in chemistry must fulfill all of the requirements for either the Bachelor of Science in Chemistry or the regular Bachelor of Science degree and must also satisfy the following stipulations: they must complete with grades of C or better Mathematics 141-142, Physics 135-136 or 137-138, and Chemistry 473-483, 400, and 408; and they must have an overall university GPA of at least 3.0 with a GPA in chemistry courses of at least 3.3.

**Minor in Chemistry**

A minor in chemistry consists of 15 hours of chemistry courses numbered above 200 including 310, 319 (4 hours) and at least one of the following sequences: 350-360, 369 (8 hours); or 471-481, 479 (8 hours), or 473-483, 479 (8 hours).

**Chinese**

See Department of Modern Foreign Languages and Literatures.

**Department of CLASSICS**

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

David W. Tandy, Head

Professors

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

Associate Professor

Sutherland, E.H., PhD .................................. California (Berkeley)
Latin Concentration

The concentration in Latin consists of 27 hours including 18 hours of Latin language courses numbered above 200 plus 9 hours to be drawn from the following: any courses in the Classics Department (other than Classics 111-112, 150, 201, 273) or History 311.

Minor in Latin

The Latin minor consists of 18 hours including 12 hours of Latin language courses numbered above 200, and 6 hours chosen from Classics 221-222, 436, 442.

Placement Examination

Students who transfer to the University of Tennessee, Knoxville, from other colleges and students who enter with high school units in Latin should register for the courses in which they would normally be placed on the basis of such credits. During freshman orientation a placement test will be given, and students will be advised if a change in registration is indicated by the results.

Proficiency Examinations

Students who have acquired a knowledge of Latin through private study or tutoring should request from the department a proficiency test. A student who earns a grade of B or better in this examination is eligible for credit toward graduation. A student who omits any course in a sequence may receive credit for it by passing the appropriate proficiency examination.

COLLEGE SCHOLARS MAJOR

Director
Christopher P. Craig, Classics

College Scholars is a major with selective admission. For details contact the director. All Scholars must enroll in one of the College Scholars Seminars 317-318 each term. They are encouraged to complete work in College Scholars Honors 491-492-493. Each student must complete a substantial piece of re-search, scholarship or creative imagination. College Scholars 498 is the appropriate course to use to receive credit for this work.

Comparative Literature
See Interdisciplinary Programs.
The computer has achieved a position of great importance in modern life. It is a vital tool in business, science, communications, and health care. The Department of Computer Science offers education in the principles of computer science and training in the technology of computers. The program’s emphasis is divided among hardware, software, and theory, giving students a wide view of the discipline and enabling them to discover their fields of interest. Graduates of the program are prepared to help others make effective use of computers in their daily lives.

Progression Standards

Undergraduates are required to apply to the Computer Science Department for progression into the computer science major. Progression is based on demonstrated academic ability. The overall record will be evaluated for quality and seriousness of purpose.

The requirements are subject to change. Current requirements can be determined by consulting an advisor in the Undergraduate Programs Office or by contacting an advisor in the Computer Science Department. Students are expected to apply during the semester in which they are completing the last of their upper-division computer science courses. A student is not permitted to declare a computer science major until the department’s progression requirements have been met.

Recent Progression Standards

Students who have met the following criteria have been approved for progression into the major.

- Has completed Computer Science 140, 160, and Mathematics 141 at the University of Tennessee, Knoxville, with a GPA of 3.0 or better in these three courses and a grade of C or better in each course. Transfer students’ course work will be evaluated individually.
- Has a GPA of 2.5 or better in all computer science courses taken at the University of Tennessee, Knoxville, that apply to the major.
- Has not been disciplined for academic dishonesty in a computer science course or for abuse of university computing privileges.
- Has no excessive absences, withdrawals, or incompletes.

Students who meet the criteria must fill out an application available in the Computer Science Department. A student who does not meet progression requirements will not be allowed to take any upper-division computer science course that can be applied to the major.

Transfers from Other Programs at the University of Tennessee, Knoxville

Students in other colleges or majors at the University of Tennessee, Knoxville, must apply for progression to the major at the earliest possible date but ideally prior to 75 hours. As a minimum, all students must be admitted to the computer science major for at least the last 30 hours of work.

Transfers from Other Institutions

Transfers from other institutions are generally handled the same as transfers from other University of Tennessee, Knoxville, programs. However, a prospective transfer student should consult with an advisor in the Computer Science Department to determine which courses can be accepted toward the computer science major. It should not be assumed that courses with similar names to University of Tennessee, Knoxville, courses can be accepted toward the major.

Appeals

Those students denied progression may appeal to the Undergraduate Committee of the Computer Science Department. Information on the appeals process can be obtained by calling the Computer Science Department, 974-5067, the Undergraduate Programs Office, 974-5096, or by contacting an advisor in that office.

COMPUTER SCIENCE MAJOR

Majors in computer science should prepare their programs in consultation with an advisor in the Computer Science Department. A student is not permitted to declare a computer science major until the department’s progression requirements have been met.

The major in computer science consists of 39 hours. Prerequisites to the major include Computer Science 102, 140, 160, and Mathematics 141, 142, 241, 251, with a grade of C or better in each course; and a two-semester laboratory science (Physics 135-136 or biology or chemistry). The major consists of:

- Computer Science 302, 311, 360, 365, 380.
- Either Computer Science 340 or Computer Science 370.
- Mathematics 300.
- Either English 355 or English 360.
- Either (i) an additional 15 hours of upper-division computer science or (ii) an additional 12 hours of upper-division computer science and either mathematics 231 or 323.

Minor in Computer Science

The prerequisites to an undergraduate minor are Computer Science 140, 160, and Mathematics 141 with a GPA of 3.0 or better in the three courses. The minor is 15 hours of upper-division computer science courses. A grade of C or better is required in all computer science courses applied to the minor, and a GPA not less than 2.5 must be maintained in these courses.
Minor in Geology

A minor in geology consists of 2 courses from Geology 101-102-103, and an additional 16 hours at the 200-level or above. A maximum of 6 hours at the 200-level and 3 hours of Geology 493 may be counted toward the minor.

Department of ECOLOGY AND EVOLUTIONARY BIOLOGY

http://eeb.bio.utk.edu/

C.R.B. Boake, Head
L.J. Gross, Associate Head

Professors
Boake, C.R.B., PhD .......................................................... Cornell
Bunting, II, D.L., PhD ......................................................... Oklahoma State
Burghardt, G.M., PhD ....................................................... Chicago
Delcourt, H., PhD .............................................................. Minnesota
Delcourt, A., PhD .............................................................. Minnesota
Echternacht, A.C., PhD ..................................................... Kansas
Etier, D.A., PhD ............................................................... Minnesota
Gavilletes, S., PhD ............................................................ Moscow State
Greenberg, N.B., PhD ...................................................... Rutgers
Gross, L.J., PhD .............................................................. Cornell
Harris, III, W.R., PhD ....................................................... Tennessee
Hallam, T.G., PhD .......................................................... Missouri
McCracken, G.R., PhD .................................................... Cornell
Pan, M.L., PhD ............................................................... Pennsylvania
Pigliucci, M., PhD ............................................................ Connecticut
Riechert, S.E., PhD .......................................................... Wisconsin
Sayler, G.S., PhD ............................................................ Idaho
Schultz, T.W., PhD .......................................................... Tennessee
Simberloff, D. (Gore Hunger Chair of Excellence), PhD .................................... Harvard
Stacey, G., PhD .............................................................. Texas (Austin)

Associate Professors
Drake, J.A., PhD ............................................................. Purdue

Assistant Professors
Butler, M., PhD ............................................................... Washington (St. Louis)
Folyuce, J.A., PhD ........................................................... Davis
King, A., PhD ................................................................. Arizona
Near, T.J., PhD ............................................................... Illinois
Sanders, N.J., PhD ........................................................... Stanford
Weltzin, J., PhD ............................................................. Arizona

Research Professors
Cooper, L.W., PhD ........................................................ Alaska
Grebmeier, J.M., PhD ..................................................... Alaska

Ecology and evolutionary biology deals with the interactions of organisms with one another and with their physical environment, and with the processes through which these interactions have developed and continue to change through time. The curriculum will provide students with an understanding of ecological interactions and evolutionary processes that are fundamental to the operation of the natural world. The scope of this program ranges from the molecular level, to individual organisms, to populations, communities, and ecosystems. The program offers career opportunities in academia, industry, governmental and non-governmental agencies that are concerned with the importance and integrity of natural systems, and in education at all levels.

Students wishing to emphasize study in this area elect to major in biological sciences with a concentration in ecology and evolutionary biology. See the description of the major and concentration under Division of Biology for requirements.
Department of Economics

See faculty listing in the College of Business Administration.

The program in economics combines a broad liberal education with the rigorous study of current issues of the day such as employment, inflation, poverty, wealth, and the benefits and costs of economic growth.

Courses offered in the Department of Economics in the College of Business Administration provide opportunity for a major or minor in economics in the College of Arts and Sciences.

In addition, certification to teach economics in secondary schools is available. Students with such interest should consult the College of Education, Health, and Human Sciences as early in their program as possible to determine the appropriate requirements.

Economics Major

Requirements consist of Economics 201 or equivalent honors courses as a prerequisite to the major and Economics 311, 313, and 499, plus 18 additional hours in upper-division economics courses. Majors are encouraged to satisfy List B of the natural science distribution requirement with one of the mathematics packages (Mathematics 115-123, 123-125, or 141-142). Students planning graduate work in economics should elect Mathematics 141-142.

Honors Concentration

Requirements are 311, 313, 499, and 18 additional upper-division hours, including registering for three hours of 493 Independent Study, which should lead to the writing of an honors thesis. Interested students should contact the department for details.

Minor in Economics

A minor consists of Economics 201 and 12 additional hours at the upper-division level. Minors are encouraged to include Economics 311 and 313.

Department of English

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

John Zomchick, Head

Professors

Carroll, D. A. (J. Douglas Bruce Professor), PhD .................................................. North Carolina
Cox, D. R., PhD ................................................................. Missouri
Dumas, B. K., PhD ......................................................... Arkansas
Dunn, A. R., PhD ........................................................... Washington
Ensor, A. R., PhD ........................................................... Indiana
Finneman, R. J. (John C. Hodges Professor), PhD .............................................. North Carolina
Garner, J. S.B. (Young Professor), PhD ......................................................... Princeton
Goslee, D. F., PhD ......................................................... Yale
Goslee, N. M. (Alumni Distinguished and Young Professor), PhD ............... Yale
Heffernan, T. J. A. (Curry Professor), PhD .................................................. Cambridge
Kallet, M., PhD ............................................................. Rutgers
Keene, M. L., PhD ........................................................ Texas
Kelly, R. M. (Young Professor), PhD ............................................................. Duke
Leggett, R. J. (Humanities Professor), PhD .................................................. Florida
Leki, I., PhD ................................................................. Illinois

Lofaro, M. A., PhD .............................................................. Maryland
Maland, C., PhD ............................................................. Michigan
Smith, A., PhD ............................................................... Houston
R. E. Stillman, PhD ........................................................ Penn State
Traher, J. B. (Alumni Distinguished Professor), PhD .................................. Princeton
Wier, A., MFA ................................................................. Bowling Green
Zomchick, J. P., PhD ........................................................ Columbia

Associate Professors

Anderson, M. G., PhD .......................................................... Vanderbilt
Arwill, J. M., PhD .............................................................. Purdue
Elias, A. J., PhD .............................................................. Penn State
Hirst, R., PhD ................................................................. Rensselaer Polytechnic
Howes, L. L., PhD .............................................................. Columbia
Jennings, J. D., PhD .............................................................. North Carolina
Papke, M. E., PhD .............................................................. McGill

Assistant Professors

Billone, A. C., PhD .............................................................. Princeton
Black, J. L., PhD ............................................................... Toronto
Haddox, T. F., PhD .............................................................. Vanderbilt
Hirschfeld, H. A., PhD ......................................................... Duke
Ikard, D., PhD ................................................................. Wisconsin
Knight, M., MFA ................................................................. Virginia
Reiff, M. J., PhD ................................................................. Kansas
Schoenbach, L. M., PhD .............................................................. Virginia
Seshaguri, U., PhD .............................................................. Illinois
Thaggert, M., PhD .............................................................. Berkeley

Lecturers

Barrow, R., PhD ................................................................. Iowa
Burton, J. C., PhD ......................................................... State University of New York (Stony Brook)
Capps, S. E., PhD .............................................................. Tennessee
Christie, P. P., PhD .............................................................. Tennessee
Dziuban, E. K., MA .............................................................. Tennessee
Edwins, J. A., PhD .............................................................. Tennessee
Forsythe, M. L., MA .............................................................. Tennessee
Harding, M. R., PhD .............................................................. Tennessee
Harding, W. J., PhD .............................................................. Florida
Havens, K. L., PhD .............................................................. Tennessee
Huk, P., PhD ................................................................. Southern California
Hussein, A., PhD .............................................................. Tennessee
Hyman, K., PhD ................................................................. Illinois (Chicago)
Knox, L., MA ................................................................. Indiana
Larsen, W. B., PhD .............................................................. Tennessee
McCue, K., MA ................................................................. Tennessee
McDowell, M. R., MA .............................................................. Tennessee
McKinstry, D. K., PhD .............................................................. Tennessee
Melton-Summer, S. E., PhD .............................................................. Tennessee
Meredith, E. G., MA .............................................................. Tennessee
Morgan, T., PhD ................................................................. State University of New York (Buffalo)
Pearson, F. M., MA .............................................................. Tennessee
Peavler, J. L., MA ................................................................. Tennessee
Preston, N. H., PhD .............................................................. Tennessee
Renfroe, M. M., PhD .............................................................. Tennessee
Robertson, K. C., MA .............................................................. Tennessee
Slawinski, S., PhD ................................................................. North Carolina
Stafford, A. A., PhD .............................................................. Pittsburgh
Thompson, P., PhD .............................................................. Louisiana State
Tomlinson, J. A., MA .............................................................. Tennessee
Wallser, S., MA ................................................................. Tennessee
Wilhelm, R., PhD ................................................................. Tennessee
Yost, R., M.A. ................................................................. Tennessee

Permanent Part-Time Lecturers

Berry, L. C., MA ................................................................. Tennessee
Tschantz, P. A., MA .............................................................. New Mexico State
Writing Center Interim Director
Edwins, J. A., PhD .............................................................. Tennessee

The English major provides students with the ability to analyze and interpret literary and other kinds of texts; to place those texts within historical, theoretical, and aesthetic contexts; to evaluate arguments according to their logical and rhetorical features; and to develop the skills of written and oral
communication. While developing these abilities, students are also urged to discover their own critical and artistic voices by gaining proficiency in organizing complex material, addressing multiple audiences, and understanding the medium of language. In the spirit of liberal education, the English major attempts to satisfy society’s increasing need for a citizenry skilled in critical thought and communication.

Prerequisites and Corequisites

One two-semester sequence chosen from the following groups: English 201-202 (British Literature); 221-222 (Literature of the Western World); 231-232-233 (American Literature); 251-252-253 (Introduction to Literary Genres).

ENGLISH MAJOR

The English major consists of ten courses at the 300-400 level in one of the following concentrations:

Creative Writing Concentration

• A two-course sequence in creative writing.
• three other writing courses.
• four courses in literature, two of which must be before 1900, and at least one of those before 1800.
• one course in language, theory, cultural, ethnic, or gender studies.
• one or more courses from any of the department’s offerings, including criticism, film, folklore, language, literature, rhetoric, and writing (necessary only if student has overlapped courses in the two preceding categories).
• Courses may count in more than one category.

Literature Concentration

• English 376 (Colloquium in Literature), to be taken, if possible, near the beginning of the student’s major program.
• four courses in literature before 1900, including at least two courses before 1800; one course in American literature.
• one course in twentieth-century literature.
• one course in language, theory, cultural, ethnic, or gender studies.
• two or more courses from any of the department’s offerings, including criticism, film, folklore, language, literature, rhetoric, and writing.
• Courses may count in more than one category.

Rhetoric and Writing Concentration

• A three-course package in rhetoric and writing.
• one other course in rhetoric or writing.
• four courses in literature, two of which must be before 1900, and at least one of those before 1800.
• one course in language, theory, cultural, ethnic, or gender studies.

• one or more courses from any of the department’s offerings, including criticism, film, folklore, language, literature, rhetoric, and writing.
• Courses may count in more than one category.

Technical Communications Concentration

• A three-course package in technical communications.
• one other course in rhetoric or writing.
• four courses in literature, two of which must be before 1900, and at least one of those before 1800.
• one course in language, theory, cultural, ethnic, or gender studies.
• one or more courses from any of the department’s offerings, including criticism, film, folklore, language, literature, rhetoric, and writing.
• Courses may count in more than one category.

See departmental brochure, Undergraduate Study in English, for a list of courses that satisfy the distribution, package, and sequence requirements for the various areas.

Individualized Program Concentration

The Director of Undergraduate Studies is empowered to approve individualized programs developed by students in consultation with their advisors. These programs should be designed to achieve academically sound objectives that are not addressed by the above requirements.

Honors Concentration

For students who qualify, the English Department offers specially designed courses at the freshman, sophomore, junior and senior levels. The freshman and sophomore honors courses are enriched versions of regular sections in composition, and in American and British literatures. To be given honors in English on the transcript, a student must have achieved a 3.0 or better GPA, a 3.5 or better grade point in English courses, and grades of A or B in English 398 and 498.

Minor in English

• An English minor consists of at least 15 semester hours of English courses at the 300-400 level.
• An English minor with technical communication emphasis consists of at least 15 semester hours of English courses chosen from the following: at least three courses in technical communication (chosen from 360, 460, 462, 466, or any special topics course being offered in technical communication); one course in expository writing, argumentative writing, language, rhetoric, or another technical communication course (chosen from 355, 360, 371, 372, 455, 460, 462, 466, 470, 471, 472, 484, 485, 495, 496; and one other 300- or 400-level English course.

Certification for Teaching

Students planning to teach English in public schools should consult the College of Education, Health, and Human Sciences.
French
See Department of Modern Foreign Languages and Literatures.

Department of GEOGRAPHY

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

Bruce Ralston, Head

Professors
Aiken, C.S., PhD ................................................................. Georgia
Bell, T.L., PhD ................................................................. Iowa
Foresta, R.A., PhD ............................................................ Rutgers
Harden, C.P., PhD ............................................................ Colorado (Boulder)
Horn, S.P., PhD ............................................................... California (Berkeley)
Jumper, S.R., PhD ............................................................ Tennessee
Minkel, C.W., PhD ............................................................ Syracuse
Pulsipher, L.M., PhD ....................................................... Southern Illinois
Ralston, B.A., PhD ............................................................ Northwestern
Rehder, J.B., PhD ............................................................ Louisiana State

Associate Professors
Orvis, K., PhD ................................................................. California (Berkeley)
Shaw, S.L., PhD ............................................................... Ohio State

Assistant Professors
Drever, A., PhD .............................................................. California (Los Angeles)
Grissino-Mayer, H., PhD ................................................ Arizona

Adjunct Faculty
Blasing, T.J., PhD .......................................................... Wisconsin
Brown, M.A., PhD .......................................................... Ohio State
Gripshover, M.M., PhD ..................................................... Tennessee
Harrison, G., PhD ........................................................... Tennessee
Liu, C., PhD .................................................................. Tennessee
McKeown, R., PhD ........................................................ Oregon
Tankersley, R.D., PhD ....................................................... Tennessee
Wilbanks, T.J., PhD ........................................................ Syracuse

The Department of Geography provides a comprehensive program that reflects the discipline’s three main areas: human geography, physical geography, and spatial analysis. The department’s courses allow students to explore the linkages between human activities and natural systems. Students taking geography courses should develop factual knowledge, critical thinking, and analytic skills. Training in geography allows students to know where things are located, why they are located where they are, how and why places differ, how human activity shapes and is shaped by the natural environment, and how to analyze human-environment interactions.

GEOGRAPHY MAJOR

Geography 131 and 132, and 101 or 102, are prerequisites to the major, which consists of 27 hours as follows: Geography 310 and 499; either 320, 421, or 423; either 340 or 351; one course from among 410, 411, 412, 413 or 415; one course from among 361, 363, 365, 371, 372, 373, 375, or 379; and 9 additional credits, at least 6 of which must be taken at the 400 level. No more than 3 hours of Geography 490 may be counted toward the major.

Students who enter the major with more than 60 hours of credit, and who have completed a laboratory science sequence other than geography, may petition the department to substitute certain upper-division physical geography courses for 131 and/or 132. Students who enter the major with more than 60 hours of credit, and who have met the social science divisional requirements in departments other than geography, may petition the department to substitute certain upper division human geography courses for 101 or 102.

Honors Concentration

Students who have an overall GPA of 3.2 may elect to participate in an enrollment program that involves the successful completion of Geography 497 and 498 (Honors: Senior Thesis) under the direction of a faculty mentor. An approved written copy of the thesis must be submitted to the Department of Geography. Interested students should consult their advisor for details about participation.

Minor in Geography

The minor in Geography consists of 15 hours of Geography courses at the 300 level or above. Geography 490, 491, 492, 493 may not be counted toward the minor without departmental permission.

German
See Department of Modern Foreign Languages and Literatures.

Greek
See Department of Classics.

Department of HISTORY

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

Todd A. Diacon, Head

Professors
Ash, S.V., PhD ............................................................... Tennessee
Brummert, P., PhD .......................................................... Chicago
Crabtree, L. (Chancellor), PhD ......................................... Minnesota
Cutler, W., PhD ............................................................. Texas
Diacon, T.A., PhD .......................................................... Wisconsin
Farris, W.W., PhD .......................................................... Harvard
Feller, D., PhD ............................................................... Wisconsin
Mayhew, A. (Vice-Chancellor), PhD ................................... Texas
Norrell, R.J. (Bernadotte Schmitt Professor), PhD ............... Virginia
Wheeler, W.B., PhD ....................................................... Virginia

Associate Professors
Appier, J., PhD ............................................................. California (Riverside)
Bast, R.J., PhD ............................................................... Arizona
Bradley, O., PhD ........................................................... Cornell
Burman, T.E., PhD .......................................................... Toronto
Fleming, C.G., PhD ........................................................ Duke
Freeberg, E., PhD ........................................................... Emory
Glover, L., PhD ............................................................ Kentucky
Higgs, C.A., PhD ........................................................... Yale
Liulevicius, V.G., PhD .................................................... Pennsylvania
Piehler, G.K., PhD ........................................................ Rutgers
Pinckney, P.J., PhD ........................................................ Vanderbilt

Assistant Professors
Dessel, J.P., PhD .......................................................... Arizona
DeWeerdt, H., PhD ........................................................ Harvard
Kulikowski, M., PhD ........................................................ Toronto
Liu, L., PhD ................................................................. California (San Diego)
Phillips, D., MA ............................................................ Harvard
Sacco, L., PhD .............................................................. Southern California
White, G., PhD ............................................................. Temple
The department’s program is designed to provide students with a knowledge of their cultural traditions and of their world, past and present, and thus to prepare them for the responsibilities of citizenship in today’s complex society. Students take history courses to develop their skills in thinking, reading, writing and speaking; to understand the links between past, present and future; and to assist them in their search for personal identity.

The department welcomes non-majors in its courses. Few history courses have formal prerequisites.

**HISTORY MAJOR**

Majors in history should prepare their programs in consultation with a departmental faculty advisor. A student may not declare a history major until he/she has completed both semesters, with a grade of C+ or better in each course, of a survey chosen from the following: 221-222, 227-228, 241-242, 247-248, 261-262; or any two one semester courses from any of these sequences. AP (with a score of 4 or 5) or transfer credit is acceptable to fulfill this requirement. History 241-242 (or honors equivalent) or 261-262 are prerequisites to a major which consists of 30 hours, including:

- 6 hours of History 221-222 (or the honors equivalent).
- 24 upper-division hours, including: one course in European history; one course in United States history; two courses in the history of Latin America, Asia, or Africa, at least one of which must be in Asia or Africa; and one additional course dealing predominantly with a period prior to 1750.

**Honors Concentration**

The Department of History offers honors sections of the western civilization and United States history survey courses. Some entering freshmen are invited to participate; other interested students may apply. These survey courses are open to non-majors. A grade of C+ or less in any part of the freshman-sophomore honors sequence will render the student ineligible for further honors work in history.

The honors concentration requires successful completion of 307 and a senior thesis (407-408) with a grade of B or above. The honors concentration consists of 33 hours, including 30 hours as outlined in the Bachelor of Arts major above, plus 307. All juniors who are declared history majors with an overall GPA of at least 3.0 are invited to join the Junior-Senior Honors Program. Students interested in honors work at any level should consult the department’s honors coordinator.

**Minor in History**

History 241-242 or 261-262 (or honors equivalents) are pre-requisites to a minor which consists of 15 hours of courses numbered 200 or above, including at least: 6 hours in United States history; and 9 upper-division hours.

**INTERDISCIPLINARY PROGRAMS**

Don Richard Cox, Associate Dean, College of Arts and Sciences, Director

In keeping with the philosophy that integration of knowledge is as important as proficiency in a given field, the College of Arts and Sciences has combined the resources of several departments to offer a series of interdisciplinary majors and minors. These programs are as follows: African and African-American studies, American studies, Asian studies, cinema studies, comparative literature, environmental studies, global studies, Judaic studies, Latin American studies, legal studies, linguistics, medieval studies, urban studies, and women’s studies. See individual program descriptions below for the concentration and/or minor requirements.

**Interdisciplinary Programs Major • African and African-American Studies Concentration**

Wornie Reed, Sociology, Chair

Associate Professors

Jalata, A., PhD.......................... State University of New York (Binghamton)
White, Jr., A.G., PhD.......................... Temple

African and African-American Studies 201-202 are required in the concentration which consists of 24 hours from the African and African-American studies curriculum. At least 15 hours must represent upper-division credits. Majors are required to take African and African-American Studies 431, preferably in their senior year. A maximum of 6 hours in African and African-American Studies 492 and 493 combined can be applied toward the African and African-American studies concentration. In planning their program, majors must include courses from at least 2 other departments which cross-list courses with African and African-American studies in addition to the African and African-American studies core course offerings.

**Minor in African and African-American Studies**

African and African-American Studies 201-202 are required in the minor which consists of 15 hours at least 9 of which must be upper-division credits. Majors are required to take African and African-American Studies 431, preferably in their senior year. A maximum of 6 hours in African and African-American Studies 492 and 493 combined can be applied to a minor. The minor must include courses from at least 2 other departments which cross-list courses with African and African-American studies in addition to the African and African-American studies core course offerings.

**Interdisciplinary Programs Major • American Studies Concentration**

Michael Fitzgerald, Political Science, Chair

English 231 and either 232 or 233 are prerequisite to a concentration in American studies which consists of 27 upper-division hours including American Studies 310; at least two approved American history courses; and six hours of approved courses chosen from the following disciplines: anthropology, economics, political science, or sociology. Courses in the concentration will be chosen in consultation with an American studies advisor, from a list approved by the program, in such a way that at least 3 courses help the student achieve a focus within the field. One course in the student’s curriculum must specifically focus upon one or more American ethnic minority cultures. An additional 3-6 hours of American Studies 493 (Independent Study) are recommended for majors in their senior year. A list of approved elective courses is published annually.

All majors and prospective majors should contact the chair of the program.
Minor in American Studies

The American studies minor consists of at least 15 hours of coursework chosen from the program’s list of electives, including American Studies 310 and twelve additional hours from at least two different disciplines.

Interdisciplinary Programs Major • Asian Studies Concentration

Miriam L. Levering, Religious Studies, Chair

Prerequisite to the concentration is Asian Studies 101-102. Corequisite to the concentration is competence in a major Asian language of the chosen geographical-cultural area. Competence is defined as the successful completion of the 200-level sequence of that language, or by demonstration of equivalent mastery.

The Asian studies concentration consists of 26 credit hours from the upper-division courses of Asian studies and approved departmental offerings. Twelve of the hours must be taken from courses listed within one of the four geographical-cultural areas (Islamic World; South Asia; China; Japan), and 6 of those 12 hours must come from Subdivision A and 6 from Subdivision B. Subdivision A includes art, literature, music, philosophy, and religious studies; Subdivision B includes anthropology, economics, geography, history, political science, and sociology.

Six of the 26 hours must be taken from courses listed for other geographical-cultural areas.

Minor in American Studies

The American studies minor consists of Asian Studies 101-102 and 15 credit hours at the 200 level and above. Twelve credit hours must be taken from courses within one of the four geographical-cultural areas. Six credit hours must come from Subdivision A and 6 from Subdivision B. Three hours must be taken from courses in another geographical-cultural area.

Interdisciplinary Programs • Minor in Cinema Studies

Christine Holmlund, Modern Foreign Languages and Literatures, Chair

The cinema studies minor consists of 15 hours, including Cinema Studies 281; 3 hours chosen from Cinema Studies 235, 236, or Journalism and Electronic Media 335; and 9 additional hours from any courses in cinema studies, courses cross-listed with cinema studies, or from the following list of approved courses: Journalism and Electronic Media 275, 335, 435. It is strongly recommended that Cinema Studies 281 be taken before any other courses in the minor.

For further information about the minor, consult the chairperson of the cinema studies program. Courses related to cinema studies and not listed above may be applied to the minor with the approval of the chair of the program.

Interdisciplinary Programs Major • Comparative Literature Concentration

Carolyn R. Hodges, Modern Foreign Languages and Literatures, Chair

Students concentrating in comparative literature are strongly encouraged to acquire a working knowledge of a second foreign language, especially if they hope to pursue comparative literature on the graduate level.

A concentration in comparative literature consists of 27 hours including Comparative Literature 202 and 401-402, and 9 hours of literature in a foreign language in courses numbered 300 or above. The remaining 9 hours should include literature courses, either in English or in a foreign language, numbered 300 or above, from at least two of the following departments: Classics, English, Modern Foreign Languages and Literatures, and Religious Studies. Certain courses in philosophy, theatre, and interdisciplinary programs may be substituted with the approval of the chairperson of the comparative literature program.

Minor in Comparative Literature

A minor in comparative literature consists of 18 hours including Comparative Literature 202 and either Comparative Literature 401 or 402, 6 hours of literature in a foreign language in courses numbered 300 or above, and 6 hours of literature courses numbered 300 or above in a different department. These 6 hours may be either in English or in a foreign language and should be chosen from the following departments: English, Modern Foreign Languages and Literatures, and Religious Studies. Certain courses in philosophy, theatre, and interdisciplinary programs may be substituted with the approval of the chairperson of the comparative literature program. Minors in comparative literature are strongly encouraged to continue study of a foreign language beyond the minimum requirement.

Interdisciplinary Programs Major • Environmental Studies Concentration

Michael McKinney, Earth and Planetary Sciences, Chair

The concentration in environmental studies provides sound scientific, socio-economic, and philosophical background for understanding the earth’s environment with an opportunity to minor in one of the many environmentally related curricula offered by the various colleges within the university.

Prerequisites to the concentration are: Biology 130-140 or Botany 110-120; Chemistry 120-130; Geology 101; Geography 131; Mathematics 123-125 or 141-142 or 151-152; Economics 201; and Biology 250.

The concentration consists of a core and a specialty.

- The core includes Geology 202 plus: (a) 12 hours from: History 346, Sociology 360, Philosophy 346, Economics 462, Agriculture and Natural Resources 333, Journalism 451, Geology 490, (b) 3 hours from: Geology 455, Geography 433, Geography 436 or Ecology/Evolution 484; (c) 3 hours from: Geography 334, Geography 434, or Environmental and Soil Sciences 462.

- The specialty consists of 12 hours at the 300 level or above in one of the following departments: Biochemistry, Cellular and Molecular Biology (BCMB); Botany; Chemistry; Earth and Planetary Sciences; Ecology and Evolutionary Biology; Economics; Environmental and Soil Sciences; Forestry, Wildlife and Fisheries; Geography; Plant Sciences; Political Science; or Sociology.
Interdisciplinary Programs Major • Global Studies Concentration

Jon Shefner, Sociology, Chair

The global studies concentration focuses on understanding connections between different parts of the world. Globalization, or the trans-national exchange of investments, commodities, people, politics, technologies, and cultures, is both a characteristic of the contemporary world and the culmination of large-scale, long-term social change. Although globalization, at times, seems dominated by new economic and political formations more powerful than the traditional nation-state, it has also mobilized new expressions of local and transnational discontent and resistance.

The University of Tennessee, Knoxville, global studies curriculum helps students understand the implications of global change, allowing the university community to confront what is occurring in our immediate locale by examining what is going on elsewhere. Bringing together faculty and students from diverse perspectives creates an interdisciplinary understanding of the disruption and integration resulting from changing configurations of nations, global processes, and identities.

Global Studies 250 is a prerequisite to the concentration which requires 30 credit hours in the form of 10 courses. No course may be counted toward more than one of the following categories. No more than three credit hours may be taken under the 300-level. Courses are to be distributed in the following manner:

A. Seven core courses from the following list. A student may choose to concentrate in either global society and culture or global politics and economy. The requirements for either track will be five courses in the primary track and two courses in the secondary track.

Approved list of core courses:

**Track I – Global Society and Culture**
- Anthropology 315, History 421; Comparative Literature 202, 203; English 331, 454; Geography 345; Music History 290; and Religious Studies 302, 333.

**Track II – Global Politics and Economy**
- Agricultural Economics 420; Economics 321, 323; Forestry, Wildlife, and Fisheries 420; Geography 351; History 374; Political Science 350, 365, 470, 471, 472; Retail and Consumer Sciences 421; and Sociology 442, 446.

B. Any two courses from the following approved list of regional studies courses:
- Anthropology 313, 316, 319; Asian Studies 471; Geography 372, 373; Political Science 452, 456; Religious Studies 332, 373; Spanish 331, 401, 465.

C. One upper-division course from the following list:
- Anthropology 410, 431; Geography 320, 340, 415; Philosophy 360; Political Science 401; Religious Studies 300; Sociology 331; any upper-division modern foreign language course taught in the language of study.

Note that any courses taken to fulfill a core requirement cannot be used to fulfill a regional studies or methods/foreign language requirement.

Minor in Global Studies

Global Studies 250 is a prerequisite to the minor in global studies which requires 18 credit hours distributed in the following manner:

Six courses, including two courses from Track I (global society and culture) and two courses from Track II (global politics and economy). The remaining two courses may be taken from any of the above lists.

Interdisciplinary Programs Major • Judaic Studies Concentration

Gilya Gerda Schmidt, Religious Studies, Chair

The concentration in Judaic studies offers a course of study that treats Judaism as a historically evolving and culturally specific enterprise. The concentration explores Jewish culture, religion and heritage through literature, philosophy and history.

A multi-disciplinary combination of courses permits critical reflection about topics and issues in a world civilization and cross-cultural context.

The concentration consists of at least 27 hours at the 300 level or above, distributed as follows:

- Religious Studies 381, History 383.
- 12 hours from: Religious Studies 311, 312, 320, 385, 386, 405, History 370, 384.
- 9 hours selected from: Art History 425, 431, 475, German 350, History 369, 395, 484, Philosophy 322.

Students should contact the program advisor early in planning a Judaic studies concentration.

Minor in Judaic Studies

The Judaic studies minor consists of Religious Studies 381, History 383, and 9 hours selected from the Judaic studies concentration.

Interdisciplinary Programs Major • Language and World Business Concentration

For a complete list of requirements, see Department of Modern Foreign Languages and Literatures.

Interdisciplinary Programs Major • Latin American Studies Concentration

Michael Handelsman, Modern Foreign Languages and Literatures, Chair

The concentration consists of two optional tracks: general studies or Brazilian studies.

The general studies track requires 27 upper-division hours taken from courses offered by at least three different academic departments; 3 of the hours are to be selected from either Spanish 331, 333, 334, or Portuguese 315, 316; the remaining hours are to be chosen from Anthropology 313, 316, 319; Cinema Studies 465; History 360, 361, 460, 461, 462, 463, 475; Geography 372, 373; Political Science 456; Portuguese 431, 432; Spanish 401, 402, 479.

The Brazilian studies track requires 27 upper-division hours offered by at least three different academic departments; of these hours, a minimum of 6 hours must be taken as part of UT Knoxville’s summer study program in Fortaleza, Brazil (Portuguese 491 or 493); 9 hours must come from University of Tennessee, Knoxville, courses that focus on Brazil (History
Minor in Latin American Studies
The minor consists of 18 hours taken from courses offered by at least three different academic departments; 3 of the hours are to be selected from either Spanish 331, 333, 334, or Portuguese 315, 316; the remaining 15 hours are to be selected from the courses listed in either track of the concentration.

Interdisciplinary Programs Major • Legal Studies Concentration
John Scheb, Political Science, Chair

The legal studies concentration places the study of law within the context of a liberal arts education. This concentration offers a course of study that treats law as a historically evolving and culturally specific enterprise. The concentration seeks to attract students interested in exploring the ways in which law and legal institutions shape and are shaped by values, behavior, communication patterns, and organization of social, economic, and political systems. A multidisciplinary combination of courses permits critical reflection about how law and social life are interconnected history and culturally. The program is designed to provide education about law and legal culture. It should not be viewed as a preferred avenue for admission to law school.

Specific objectives of the program are to:
• Foster an appreciation for the larger context within which law-based phenomena are developed and nourished;
• Comprehend the connections between law and other components of society; promote an interest in studying how law shapes, and is shaped by the larger social, behavioral, political, historical, and cultural context; present an interdisciplinary program that speaks to the need to address problems about law that will face us in the next century; offer an integrated program drawn from existing curriculum and faculty.

Students should contact program advisors early in planning a legal studies concentration. Other law-related courses consistent with the purposes and objectives of the major may be approved through consultation with the Chair of the Legal Studies Committee.

The concentration consists of 27 hours, including either Political Science 330 or Sociology 455 and 24 hours of upper-division courses distributed among five categories:
• Analysis — 3 hours from English 496, Political Science 401, Sociology 331.
• Processes — 6 hours from Business Law 301; Political Science 341, 430, 435, 442, 445, Sociology 451.
• Perspectives — 3 hours from English 490, Political Science 330, Philosophy 392, Sociology 455 (Note: Students who select Sociology 455 as their core course may not use it toward the Perspectives category. The same rule applies to Political Science 330).
• Historical and Global Dynamics — 3 hours from Classics 362, Philosophy 393, Political Science 470.
• Issues — 6 hours from Communication 400, Philosophy 344, Political Science 431, Communication Studies 469, Women’s Studies 340.

The remaining three hours are to be chosen from one of the five categories.

Interdisciplinary Programs Major • Linguistics Concentration
Ilona Leki, English, Chair

This concentration offers a broad exposure to the various fields of linguistics (including historical, descriptive, theoretical and applied linguistics) along with an opportunity to study areas where linguistics overlaps with other disciplines such as psycholinguistics, socio-linguistics, and speech pathology. The program of study is designed to prepare a student for graduate work in linguistics or related areas or to serve as a general survey of language and linguistics. The program of study provides the additional possibility of emphasizing the teaching of English as a second language for the student interested in language-related employment at the Bachelor of Arts level.

Students should consult program advisors early in planning a linguistics major or minor. Linguistics 200 is highly recommended. Audiology and Speech Pathology 305 should be taken as soon as possible. Other 300-level courses should, if possible, be completed before 400-level courses are begun.

Corequisites
• Completion of a third year of Indo-European foreign language study.
• A two-semester sequence of a non-Indo-European language to be selected from the following: Asian Languages 131-132 (Chinese); Asian Languages 151-152 (Japanese); Asian Studies 121-122 (Modern Arabic); Asian Studies 141-142 (Modern Hebrew); Educational Interpreting 223, 226 (American Sign Language); Religious Studies 309-310 (Classical Hebrew); or other non-Indo-European languages offered in a two-course sequence and approved by the Linguistics Committee.

Concentration — 30 hours distributed as follows:
• 21 hours composed of:
  Audiology and Speech Pathology 305, English 371, 372, 471, Linguistics 423, 425, 426
• 9 hours of the following, selected in consultation with a linguistics advisor from:
  Anthropology 411; Audiology and Speech Pathology 302, 320; Communication Studies 300, 320; Foreign Language/ESL Education 455; French 421, 422; Linguistics 321, 400, 429, 431, 433, 436, 472, 474, 475, 476, 477, 485, 490, 491, 492, 493; Philosophy 472; Psychology 400, 424; Spanish 421, 422; Theatre 326.

Minor in Linguistics
A minor in linguistics shall consist of 18 credit hours composed of:
• Either English 471 or 3 hours selected in consultation with a linguistics advisor from: Anthropology 411; Audiology and Speech Pathology 302, 320; Foreign Language/ESL Education 455; French 421, 422; Linguistics 321, 400, 429, 431, 435, 436, 472, 474, 475, 476, 477, 485, 490,
A concentration in medieval studies focuses upon culture and society from the collapse of the Roman Empire to the 16th century. Such a concentration offers the opportunity to deepen one’s self-awareness and broaden one’s view of the range of human possibilities by studying a very different and remote culture, its conditions of life, social and political institutions, values and ideals, and modes of perception and expression.

Latin is the most appropriate language for students in the medieval studies concentration and is essential for those who plan to continue their studies in graduate school. In addition, students planning to go on to graduate school are strongly advised to supplement their medieval studies concentration with extensive work in one of the traditional disciplines.

The concentration consists of Medieval Studies 201 and 403 and 21 hours of upper-division courses concerned primarily with the medieval experience, divided among the following three categories:

- history, philosophy, political science, and religious studies;
- language and literature;
- the arts: history of art, architecture, music, and communication studies and theatre.

Courses should either form a related pattern (for example, courses in the literature and history of medieval England or Italy) or should revolve around a particular discipline or two closely related disciplines (for example, courses in the history of art and architecture).

Upper-division courses for concentration in medieval studies:

**Category 1 – History, Philosophy, and Political Science:**
History 312, 313, 330, 334, 369, 474; Philosophy 322; Political Science 475.

**Category 2 – Language and Literature:**
Classics 435; English 371 401; 402; French 410; Italian 401, 402.

**Category 3 – The Arts**
Architecture 415; Art History 425, 431, 441, 451; Music History 210.

**Minor in Medieval Studies**
A minor in medieval studies consists of Medieval Studies 201 and 403 and 12 additional hours distributed among the categories listed above for the major. Each student’s program, major or minor, must be approved in advance by the Medieval Studies Coordinating Committee chairperson.

**Interdisciplinary Programs Major • Urban Studies Concentration**
Bruce Tonn, Urban and Regional Planning, Chair

Urban studies involves the interdisciplinary study of cities and their regions. Faculty from planning, architecture, geography, history, political science, sociology, history, business participate in the program which has variable emphases from the relationship of the individual to the environment, the process of problem solving in an urban context, or the nature of current urban issues.

Prerequisites to the program are Economics 201 or 207, Political Science 101 or 102 or 107, and Sociology 110 or 120. Courses required for the concentration are Urban Studies 250, 350 and 460, plus 3 hours from each of these groups:

- **Group 1—**History and Theory: Architecture 410, Urban Studies 401, 454;
- **Group 2—**Physical Issues and Design: Urban Studies 323, 441, 464;

To complete the 30 hours required for the concentration, an additional 12 hours should be completed from any of the three groups or from the following list of approved courses: African and African-American Studies 480; Architecture 403, 404, 405; Classics 436; Economics 323, 361, 462, 471, 472; Geography 310, 411, 412, 449; Marketing 310; Political Science 340; Sociology 340, 343, 344, 345, 360, 442, 462; Communication Studies 420; Statistics 201; Urban Studies 200, 450, 485, 493.

**Minor in Urban Studies**
A minor in urban studies consists of 18 semester hours, including Urban Studies 250 and 350, plus additional semester hours from Group 1, 2, or 3 above. For more information, contact the chairperson of Urban Studies.

**Interdisciplinary Programs Major • Women’s Studies Concentration**
Cheryl Brown Travis, Psychology, Chair

Women’s studies encourages inquiry into the full range of the human experience by raising new questions and opening new areas of research concerning women. The discipline enriches the traditional Arts and Sciences curriculum by adding new perspectives on women’s lives and accomplishments. Women’s studies can broaden the education of both male and female students by helping them to understand the limitations placed on both sexes by narrowly defined sex roles. Wherever there is a need to understand women and an interest in the new roles they are playing in society, women’s studies can enhance a student’s career preparation and opportunities.

The concentration in women’s studies consists of 30 semester hours including one of the Images of Women in Literature courses (either 210 or 215), Women in Society (220), Emergence of the Modern American Woman (310), at least three hours of Independent Study (493), and at least one course from each of the three major areas: Women’s Heritage (383, 432, 453, 466, 483), Contemporary Issues (320, 340, 360, 375, 382, 410, 425, 434, 476), and Literature and the Arts (330, 332, 422, 433, 469).

Because its content varies, 400 may be included in any of these areas. Students are encouraged to take at least nine hours in one of these areas.
Minor in Women's Studies

The women's studies minor consists of one of the Images of Women in Literature courses (either 210 or 215), Women in Society (220), and an additional 12 hours of upper-division women's studies courses. Approved special topics courses related to women's studies may also be applied toward a major or a minor.

Italian

See Department of Modern Foreign Languages and Literatures.

Japanese

See Department of Modern Foreign Languages and Literatures.

Judaic Studies

See Interdisciplinary Programs.

Latin

See Department of Classics.

Latin American Studies

See Interdisciplinary Programs.

Legal Studies

See Interdisciplinary Programs.

Linguistics

See Interdisciplinary Programs.

Department of
MATHEMATICS

http://www.math.utk.edu/

Robert J. Daverman, Interim Head

Professors

Alexiades, V., PhD ........................................ Delaware
Anderson, D.F., PhD ............................................. Chicago
Conway, J.B., PhD ................................................ Louisiana State
Daverman, R.J., PhD .............................................. Wisconsin
Dobbs, D.E., PhD .................................................. Cornell
Dyda, J., PhD ...................................................... Warsaw (Poland)
Gavrilets, S., PhD ................................................ Moscow State
Gross, L., PhD ........................................................ Cornell
Hinton, D.B., PhD ................................................. Tennessee
Jordan, G.S., PhD .................................................. Wisconsin
Karakashian, O., PhD ........................................ Harvard
Lenhart, S., PhD ...................................................... Kentucky
Mulya, S., PhD ...................................................... Purdue
Plaut, C.P., PhD ..................................................... Maryland
Rajput, B.S., PhD .................................................. Illinois
Richter, S., PhD ...................................................... Michigan
Rosinski, J., PhD .................................................. Wroclaw University
Schaefer, P.W., PhD ................................................ Maryland
Simon, H., PhD .................................................. California Institute of Technology
Son, R.P., PhD ......................................................... Oregon State
Stephenson, K.R., PhD ........................................ Oregon State
Sundberg, C., PhD ................................................. Wisconsin
Thistlethwaite, M., PhD ........................................ Manchester (UK)
Winde, W.R., PhD .................................................. California (Riverside)
Wagner, G.G., PhD ................................................ Duke

Associate Professors

Collins, C., PhD ................................................ Minnesota
Feng, X., PhD ...................................................... Purdue
Freire, A., PhD ...................................................... Princeton
Guan, B., PhD ....................................................... Massachusetts
Kimble, K.R. (UTSI), PhD ....................................... Ohio State
Kuo, Y., PhD ......................................................... Cincinnati
Schulze, T., PhD .................................................. Northwestern
Soni, B.K. (UTSI), PhD .......................................... Texas
Xiong, J., PhD ...................................................... North Carolina (Chapel Hill)

Assistant Professors

Brodskiy, N., PhD ................................................ Saskatchewan
Chen, X., PhD ..................................................... Rutgers
Davis, R., PhD ...................................................... Tennessee
Denzer, J., PhD ................................................... ETH (Zurich)
Kachi, Y., PhD ...................................................... Tokyo
Todorova, G.H., PhD ........................................... Moscow State
Tzermias, P., PhD ................................................ California (Berkeley)
Wang, C., PhD ...................................................... Temple

Lecturers

Bonee, K., MS ....................................................... Tennessee
Campbell, T., MM ................................................ Tennessee
Farvin, F., MS ..................................................... Tennessee Tech
Fowler, J., MA ...................................................... Kentucky
Gilbert, M., MS .................................................... Tennessee
Gleason, J., PhD .................................................. California (Santa Barbara)
Kililias, H., MS .................................................... Tennessee
Lawkins, W., PhD ................................................ Tennessee
Linwood, D., PhD ................................................ Courant Institute
Long, J., PhD ......................................................... Michigan
McClard, M., MA ................................................ Murray State
Peery, M., MM ..................................................... Tennessee
Reagan, R., MM ................................................... Tennessee
Salinas, T., MS ..................................................... Tennessee
Sikkema, D., MS ................................................... Tennessee
Smith, K., MM ..................................................... Tennessee
Stein, D., MS ......................................................... Tennessee
Szczepanski, A., PhD .......................................... California (San Diego)

All entering freshmen and all other students who have not completed a college level mathematics course, except students who have received AP calculus credit, must take UT Knoxville's Mathematics Placement Exam before enrolling in a mathematics course. Placement in the appropriate course will be determined by the score on the exam. Ordinarily, a student will not be allowed to enroll in a course at a level above that determined by his or her placement exam score. In exceptional circumstances, students will have the right to appeal their placement to the Mathematics Department. The exam will be administered during summer orientation and at designated times during the fall, spring, and summer registration.

MATHEMATICS MAJOR

The undergraduate mathematics major is designed to provide a broad introduction to mathematics which serves as preparation for a wide variety of careers. The requirements below, which provide a solid introduction to four of the core components of mathematics, should be regarded as minimal preparation for careers in mathematics or closely related mathematical fields. Students with special interests and talents are encouraged to take as many other mathematics courses as their schedule permits.

Prerequisites to the major are Mathematics 141-142 (or Honors version: 147-148) and 171 or CS 102.

Major requirements consist of 37 semester hours of mathematics courses including (1) Mathematics 231, 241 (or 247), 251 (257), 300; and (2) eight additional courses at the 300-400 level (except 399, 400, 401, 405, 411, 490 and 497) satisfying the following conditions:
• At least one course must be taken from each of the following categories: Algebra: 351, 455-56 (457-58); Analysis: 341, 445-46 (447-48); Numerical Analysis: 371 or Computer Science 370, 471-472; Probability Statistics: 323, 423-24 (423-25).

• At least one 400-level two-semester sequence must be taken from the list above.

• Computer Science 311 and Computer Science 380 may be used as upper-division mathematics electives in part (2).

There are many careers one can pursue with a mathematics major. Sample programs for three different goals are listed below. Additional information is available in the Mathematics Department Office.

INDUSTRIAL EMPLOYMENT

Although not reflected in the showcase, students are required to meet the University General Education Requirement as stated in this catalog. Consult the College of Arts and Sciences Advising Services for updated information.

### Preparation for Graduate School

Although not reflected in the showcase, students are required to meet the University General Education Requirement as stated in this catalog. Consult the College of Arts and Sciences Advising Services for updated information.

<table>
<thead>
<tr>
<th>Grade Level</th>
<th>Hours Credit</th>
<th>Mathematics 141-142 (or 147-148) and 171</th>
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<td>English Composition</td>
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<td>Foreign Language (beginning level, preferably French, German, or Russian)</td>
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<td>Lab Science Distribution Requirement</td>
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<td>Junior</td>
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<td>Humanities Distribution Requirement</td>
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<td>Social Science Distribution Requirement</td>
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<td>Foreign Language (completion of secondary level)</td>
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<td>Senior</td>
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<td>Mathematics 471-472,423, 475</td>
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<td>(may include Mathematics 400 or 411)</td>
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<td>Electives (must include at least 7 upper-division hours.)</td>
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Total 124 minimum

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<td>Senior</td>
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<td>Mathematics 445-446,460,421 (or 431)</td>
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<td>Upper-Level Distribution Requirement (strongly recommended: Mathematics 400)</td>
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<td>Cultural Studies in Education 400</td>
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<td>Educational Psychology 401</td>
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Total 125 minimum

SECONDARY EDUCATION

Although not reflected in the showcase, students are required to meet the University General Education Requirement as stated in this catalog. Consult the College of Arts and Sciences Advising Services for updated information.

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<td>(may include Mathematics 400 or 411)</td>
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<tr>
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<td>Cultural Studies in Education 400</td>
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<td>Educational Psychology 401</td>
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<td>Special Education 402</td>
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<td>Theory and Practice in Teacher Education 352 (1), 355 (3)</td>
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<td>Instructional Technology 486</td>
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</table>

Total 125 minimum

Honors Program

The Mathematics Department Honors Program offers highly talented students an accelerated curricular path that permits them to enroll in graduate-level mathematics courses as early as the junior year, making them highly competitive for graduate fellowships upon completion of a Bachelor of Science degree. In addition to a more rapid curriculum, the honors program offers enhanced academic advising and opportunities for students to interact with their peers through the Undergraduate Honors Seminar (Mathematics 497), in which honors students will discuss their theses and other undergraduate research projects.

Students who are interested in participating in the departmental honors program are urged to enroll in Mathematics 300 as soon as possible. Students who have completed Mathematics 300 may apply to the mathematics undergraduate office for admission into the program, no later than the end of the junior
Department of Microbiology

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

Jeffrey Becker, Head

Professors
Becker, J.M., PhD ................................................. Cincinnati
Brian, D.A., PhD/DVM. ......................................... Michigan State
Moore, R.N., PhD .................................................. Texas (Austin)
Riggsby, W.S., PhD ............................................... Yale
Rouse, B.T., PhD .................................................... Guelph (Canada)
Sayer, G.S., PhD .................................................... Idaho
Smoll, P.L., PhD .................................................... Stanford
White, D.C. (Distinguished Scientist), MD ..................... Tufts

Assistant Professors
Reynolds, T. PhD .................................................... Vanderbilt
Sangster, M.Y., PhD ................................................ Western Australia (Perth)
Saper, T.E., PhD ....................................................... Emory University School of Medicine
Wilhelm, S., PhD .................................................... Western Ontario

Research Assistant Professors
Fleming, J., PhD .......................................................... Tennessee
Hauser, M., PhD ...................................................... California (Irvine)
Kumaraguru, U., PhD .............................................. Madras (India)
Layton, A.C., PhD .................................................... Purdue
Lee, B-K, PhD ......................................................... Tennessee
Pfiffter, S., PhD .......................................................... Florida State
Ripp, S., PhD ........................................................... Oklahoma State
Sanseverino, J., PhD .................................................. Lehigh

Microbiology is the study of organisms so small that they must be viewed with a microscope. These organisms include bacteria, yeasts, molds, protozoa and viruses. Microbiology is one of the fastest growing areas of science. The concentration in microbiology is designed to furnish necessary experience in academic and practical skills to prepare graduates for immediate entry into the job market or for continuing graduate education in pure or applied biological sciences. Graduates with a concentration in microbiology find positions in the areas of medical, agricultural, food, industrial, or pharmaceutical microbiology. In addition, many microbiologists pursue careers in environmental microbiology and bioremediation. Other students become teachers, science writers, technical librarians, or managers of scientific companies. The microbiology concentration also provides an excellent background for students who plan to enter medical school, veterinary school or other health science graduate programs.

Students wishing to emphasize study in this area elect to major in biological sciences with a concentration in microbiology. See the description of the biological sciences major under Division of Biology for requirements.

Department of Modern Foreign Languages and Literatures

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

Chauncey J. Mello, Interim Head

Professors
Brady, P. (Shumway Chair of Excellence), PhD ........................................... Université de Paris (Sorbonne)
Bartos-Skov, F., PhD .................................................. Washington
Campion, E.J., PhD ...................................................... Yale
Cree, B., PhD ........................................................... California (Davis)

Medieval Studies
See Interdisciplinary Programs.

Department of Medical Biology/Memorial Research Center

The Department of Medical Biology of the University of Tennessee College of Medicine — Knoxville Unit was formed from the faculty of the University Memorial Research Center and Hospital in 1978. The Research Center was established in 1956. The faculty has research, education, and service interests in cancer, blood diseases, metabolism, neuroscience, birth defects, cyogenetics and clinical genetics. Courses in these areas are offered to students at the graduate and undergraduate levels. Elective courses are also available to students in the College of Medicine.

The faculty with the College of Veterinary Medicine participates in the graduate program leading to Master of Science and Doctor of Philosophy degrees in Comparative and Experimental Medicine. Other advanced degree students can do thesis research in the department by arrangement with other life science departments at the university.

year. Admission is based on recommendation of two University of Tennessee, Knoxville, mathematics faculty, including the student’s teacher in Mathematics 300 or an upper-division mathematics honors course. Students are normally expected to be in the top 20% among Mathematics 300 students to be admitted to the honors program. Those who are not admitted based on performance in Mathematics 300 but who do exceptionally well in an upper-division mathematics honors course may also be admitted. Membership in the University Honors Program is not required, nor does such membership guarantee admission into the departmental Honors Program.

Honors students must meet stronger requirements. Specifically, honors students must meet all the requirements for a Bachelor of Science in Mathematics, but must also enroll in at least four hours of Mathematics 497 and take two upper division mathematics sequences (instead of one), one of which must be an honors sequence. Honors students must also maintain a 3.4 cumulative GPA in all upper division math courses and write a thesis (normally while enrolled in Mathematics 497) that must be approved by an honors thesis committee. The honors category upon graduation is determined as follows, based on the GPA of all upper-division math courses: GPA at least 3.4—Honors; GPA at least 3.6—High Honors; GPA at least 3.8—Highest Honors.

With careful planning, some highly motivated students can earn both a Bachelor of Science in Mathematics and a Master of Science in Mathematics (or certain closely related areas) in five years. Students who are interested in attempting this path should speak with an advisor in the Mathematics Department.

Minor in Mathematics
Prerequisite to the minor: Mathematics 141-142 (or 147-148). The minor consists of: Mathematics 231, 241, 251, 300 and nine additional hours at the 300-400 level (except 399, 401, 405, and 490). Computer Science 370 may be substituted for three of those hours. The grade in each of these courses must be at least C.

Medieval Studies
See Interdisciplinary Programs.
and language are also available for major and minor credit. Participation in these programs will satisfy the foreign study requirements for language and world business. A faculty member accompanies students on the program. In addition to formal classes held at a major university in the city, group excursions to cultural and historical sites are an integral part of the programs. For more information concerning prerequisites, lodging arrangements, costs, and dates of an individual program, contact the Department of Modern Foreign Languages and Literatures, 701 McClung Tower.

Students are also encouraged to study abroad, particularly through participation in the university’s International Student Exchange Program (ISEP). The department is also prepared to recommend summer study programs and year abroad programs for students who are interested in foreign study. Credits from recognized foreign study programs can readily be transferred to the University of Tennessee, Knoxville. For qualified students, the department also offers Asian Languages 491 Foreign Study, German 491 Foreign Study, and Russian 491 Foreign Study. Students should consult the department before registering for the foreign study course.

FRENCH MAJOR

The French major consists of 30 hours in courses numbered 333 and above. (French 300 does not count toward the major but is recommended for students needing grammar review). All majors must have the following courses (or their equivalent with consent of the department): 333-334; 351-352; 421; 422; 440. Exceptional students may substitute a 400-level course for either 333 or 334, with consent of the department.

Language Concentration

Language concentration students must also have 6 hours of language-oriented or civilization course, plus a 3-hour literature course at the 400 level.

Language and World Business Concentration

For further information, see the following page.

Literature Concentration

Literature concentration students must also have 6 hours of literature at the 400 level, plus a 3-hour language-oriented or civilization course.

GERMAN MAJOR

Majors or minors in German should carefully prepare their programs in consultation with a departmental faculty advisor. German 201-202 or the equivalent is a prerequisite to the major. German 331-332 do not count toward the major. In order to graduate, majors will be required to take a proficiency test in German.

Language and Literature Concentration

Language and literature concentration consists of at least 30 hours of German in courses numbered above 300, including 301-302 and three hours chosen from German 323, 350, 363 or 415.

Programs in the Department of Modern Foreign Languages and Literatures provide students with courses in language, literature, linguistics, and culture. Along with developing language proficiency in reading, writing, speaking, and listening comprehension, the courses prepare students for study abroad and offer learning experiences that foster understanding and appreciation of global issues and multicultural perspectives.

Placement Examination

Students who have had previous work (either two or more years in high school or one year in college) in Chinese, French, German, Italian, Japanese, Portuguese, Russian, or Spanish should take a placement test to determine the appropriate level course for which to register. Placement tests are given for incoming students during summer orientation and throughout the year. Please contact the department for further details.

Proficiency Examinations

Students who have acquired a knowledge of French, German, Italian, Russian, or Spanish should request a proficiency test. A student earning a grade of C or better will receive credit for an appropriate number of courses. Superior students are encouraged to proceed as rapidly as their achievement permits.

Study Abroad

Five summer study abroad opportunities are available to students through the department. The department sponsors programs in Brazil, France, Italy, Mexico, and Spain. Students can earn up to six credit hours by participating in these programs. In most cases, the courses will fulfill part or all of the foreign language requirement (completion of the elementary or intermediate level). Upper-division classes in literature, culture,
German Studies Concentration

The German studies concentration is designed for students who would like to focus on German-speaking countries from a comprehensive cultural perspective. The German studies concentration has four components: command of the German language; knowledge of the cultural achievements—art, music, philosophy, poetry, fiction, religion, theatre—of the German-speaking people; knowledge of the political, social, and cultural history of the German-speaking nations; and knowledge and understanding of contemporary institutions in German-speaking nations.

This concentration consists of 36 hours, distributed as follows:

1. **Language.** Any four of the following: German 311, 312, 411, 412, 435, 485.
2. **Literature, Culture, Arts.** Any four of the following: Art History 441; German 301, 302, 305, 323, 350, 415, 422, 423, 424; Music History 400, 420, 430; Philosophy 324, 326, 370, 395; Religious Studies 385, 411.
3. **History.** At least one of the following courses: German 436; History 315, 334, 335, 471, 472, 484.
4. **Contemporary Institutions.** At least one of the following courses: Geography 340; German 363.
5. Two additional courses from 3 and 4 above.

Honors Concentration

The honors concentration consists of at least 32 hours of German in courses numbered above 300, including completion of German 477 or 478 with a grade of A or B+. To be admitted to the honors program, students must present a cumulative grade point average in German major courses of at least 3.5 and have an overall GPA of not less than 3.2. Students should apply for admission to the Bachelor of Arts honors program at the end of their junior year. Application forms are available in the department office. Since courses taken abroad are not calculated in the overall average, the department reserves the right to make a judgment on the appropriateness of a study-abroad curriculum for acceptance as honors work and to require other 400-level courses as a condition for the degree.

Language and World Business Concentration

For further information, see the next column.

ITALIAN MAJOR

The Italian major consists of 30 hours in courses numbered 311 and above.

Language and World Business Concentration

For further information, see the following page.

RUSSIAN MAJOR

The Russian major has two options—literary emphasis and area studies. Russian 201-202 is a prerequisite for both. Majors should prepare their programs in consultation with the departmental faculty advisor. Both options consist of 30 hours of courses and both require Russian 311-312 and 401-402.

Area Studies Option

Additional requirements for the area studies option are Russian 371-372; 3 or more credits chosen from Russian 221, 222, and Russian courses numbered 300 and above; and 6 or more credits chosen from History 340-341, and Political Science 459.

Language and World Business Concentration

For further information, see the following page.

Literary Emphasis Option

Literary emphasis also requires Russian 301-302, 451-452, and 6 hours from Russian 221, 222, 371, 372, or other courses numbered above 300.

SPANISH MAJOR

The Spanish major consists of 30 hours in courses numbered above 300 in one of two concentrations. All majors must have the following courses: 323, 330, and 331. Majors who study a semester or more abroad must take the following at the University of Tennessee, Knoxville: 323 (which must be taken prior to any study abroad), 330, and three of the four required 400-level courses.

Hispanic Studies Concentration

One course from Spanish 332, 333 or 334; 6 additional courses in language, literature or culture, at least 4 of which must be from the 400 level. Students whose level of proficiency in Spanish is superior as defined by the ACTFL Proficiency Guidelines may substitute a 400-level course for Spanish 323 with consent of the department.

Language and World Business Concentration

For further information, see the following page.

Literature Concentration

Spanish 332, 333, 334; four additional 400-level courses, at least two of which must be in literature.

FRENCH, GERMAN, ITALIAN, RUSSIAN, SPANISH MAJOR

Concentration Language and World Business or

INTERDISCIPLINARY PROGRAMS MAJOR

Concentration in Language and World Business—Chinese, Japanese, or Portuguese

Students who wish to prepare for careers in international business may complete a special major in Chinese, French, German, Italian, Japanese, Portuguese, Russian, or Spanish; a professional emphasis in international business, international retail merchandising, or international agricultural economics; and some form of practical experience related to the concentration. Admission is by permission of the program director.
A. Language Requirements

- The **Chinese concentration** consists of 30 hours. The following are required: Chinese 231, 232, 331, 332, three hours of Asian Languages 490 or 491, and 9 hours of courses from the following: Asian Studies 102, History 362, 363, 364, 476, Political Science 454, Religious Studies/Philosophy 376, 379 (or other course approved by the Asian Studies Advisor).

- The **French major** consists of 33 hours. The following are required: French 333, 345, 351, 352, 400, 422, 432, 440, 445, a 400-level literature elective, and three hours of 491, 490 or 493.

- The **German major** consists of 30 hours. The following are required: German 301-302, 311-312, 323 or 363, 485, three credit hours of 490, 491 or 493, and three courses numbered 320 or above.

- The **Italian major** consists of 27 hours. The following are required: Italian 314, 341, 342, 401, 3 hours of 490 or 491, and 12 hours of any 400-level literature courses.

- The **Japanese concentration** consists of 30 hours. The following are required: Japanese 251, 252, 351, 352, three hours of Asian Languages 490 or 491, and 9 hours of courses from the following: Asian Studies 102 or 471 (if related to Japan), History 365, Japanese 313 or 314, Religious Studies 383.

- The **Portuguese concentration** consists of 30 hours. The following are required: Portuguese 301-302, 309, 315-316, 409, 431 or 432, and nine hours of courses from the following: Portuguese 490, 491, 493, Latin American Studies 360, 361, 401, 460, 463, 465.

- The **Russian major** consists of 30 hours. The following are required: Russian 301-302, 311-312, 401-402, 451-452, 3 hours of 490 or 491, and 3 hours from the following: 221, 222, 371, 372, 430, or any 400-level courses.

- The **Spanish major** consists of 33 hours. The following are required: Spanish 323, 330, 331, 345 or 346, at least one 300-level literature survey course, three hours of Spanish 490 or 491, any four courses in language, literature or culture (at least two of which must be from the 400 level while the remaining two may be selected from courses numbered above 300), and Portuguese 400. Students whose level of proficiency in Spanish is superior as defined by the ACTFL Proficiency Guidelines may substitute a 400-level course for 323 with consent of the department.

B. Professional Emphasis

- International business students will complete the 25-hour business administration minor, which includes the following courses: Accounting 201-202, Business Administration 201, Economics 201, Statistics 201, Finance 301, Marketing 300, and Management 300. All upper-division (300 level or above) coursework must be taken at the University of Tennessee, Knoxville. Students are responsible for meeting all prerequisites for business courses. [For instance, Mathematics 125 or 141 is a prerequisite to Statistics 201, and Business Administration 101 is a prerequisite to Business Administration 201.] Students should consult their catalogs and advisors to insure that all prerequisites are met.

- The **Chinese minor** consists of Asian Languages 231-232 or its equivalent and is a prerequisite to the minor. The minor shall consist of at least 17 hours of Chinese courses, including Asian Languages 331-332; 431; and six hours from Asian Languages 311-312 or other Chinese courses above 300.

- The **French minor** consists of 18 hours in courses numbered 333 and above, distributed as follows: 333 or 334; 351-352; 421; plus six hours of electives at the 300 or 400 level. French 300 does not count toward the minor, but is recommended for students needing grammar review.

- The **German minor** consists of German 201-202 or its equivalent and as a prerequisite to the minor. The minor shall consist of at least 18 hours of German courses numbered above 300, which normally include German 301-302 and 12 additional hours of courses numbered above 300 (excluding 331-332 and courses in English translation).

C. Practical Experience

Each language and world business student must undertake an internship (490), study abroad (491), or a relevant research project (493) for a minimum of 3 hours (included in major requirements).

Additionally, language and world business students must consult an advisor in the department in selecting relevant courses under the basic skills and distribution requirements for the college.

Students interested in the language and world business program should contact the director for advising as early as possible in their college careers. The academic record presented will be assessed by the Director of Language and World Business. Minimum requirements for progression to the concentration are a 2.75 cumulative average in the courses specifically required by the College of Arts and Sciences in basic skills and distribution and in the language and world business plan of studies, and a 3.0 average in language courses. Asian Languages, French, German, Italian, Portuguese, Russian, or Spanish 199 is a prerequisite for the program. Progression is based on availability of space. Program standards are adjusted periodically, and current requirements are available from the Director of the Language and World Business Program.

For further information, inquire at 701 McClung Tower.

Minors

- International retail merchandising students will take 24 hours. The following are required: Accounting 201, 202; Marketing 300; Retail and Consumer Sciences 210, 310, 421; and six additional credit hours from the following: Retail and Consumer Sciences 350, 410, 411, 412, 415, 493. Students are responsible for meeting all prerequisites for business courses. Students should consult their catalogs and advisors to insure that all prerequisites are met.

- International agricultural economics students will complete 24 hours. The following are required: Accounting 201; Agricultural Economics 210, 320, 342, 350, 420, 430; and three credit hours from the following: Marketing 300, Management 300, Finance 301. Students are responsible for meeting all prerequisites for business courses. Students should consult their catalogs and advisors to insure that all prerequisites are met.
The Italian minor consists of 18 hours in courses numbered 311 or above. Students pursuing a minor must consult with a departmental advisor.

The Japanese minor consists of Asian Languages 251-252 or its equivalent is a prerequisite to the minor. The minor in Japanese consists of at least 20 hours of Japanese courses, including Asian Languages 351-352; 451-452; and 6 hours from Asian Languages 313-314, 413 or other Japanese courses above 300.

The Portuguese minor consists of 18 hours in courses numbered 300 or above. Students pursuing a minor must consult with a departmental advisor.

The Russian minor Russian 201-202 is a prerequisite to the minor. The minor in Russian shall consist of at least 18 hours of Russian courses, including Russian 301-302; 311-312; and 6 hours from Russian 221-222 or other Russian courses numbered above 300.

The Spanish minor consists of 18 hours in courses numbered above 300, distributed as follows: 323, 330 and 331; one course from 332, 333 or 334; two additional courses. Minors who study a semester or more abroad must take the following at the University of Tennessee, Knoxville: 323 (which must be taken prior to any study abroad), 330, and at least one additional course numbered above 300.

The School of Music provides specialized training in music to prepare students for professional work or advanced study; for teaching music in the elementary and secondary schools, and in higher education; and for general cultural enrichment. The curriculum of the School of Music, therefore, is designed to present the learning of music as an integrated whole. Solo and ensemble performance, theoretical and historical studies, concert attendance, and electives both within and outside the school are intended to provide a balanced education. The school also provides general music studies and performance.

Progression Requirements

All new music students (freshmen and transfers) must perform an audition in applied music and take a music theory examination, the results of which will determine his or her placement in applied music and theory. Both the audition and theory exam should be completed during a visit to the University prior to final arrival to begin classes. Applicants are urged to contact the school to schedule appointments for satisfying both requirements as early as possible, but certainly no later than the summer orientation period.

No student officially progresses to a major in music until both the audition and entrance examination have been successfully completed.

Minimum Performance Standards

Potential performance and music education majors not meeting minimum performance standards, but showing potential, will be allowed to register for applied music (Music 140—Fundamentals of Performance) in order to attain the desired level. Such students are normally expected to demonstrate sufficient progress by the end of the first academic year to perform on a level commensurate with a freshman student accepted without reservation by the school. The addition of the extra semesters of study usually results in lengthening the period needed to satisfy requirements for advanced standing (300 level).

Students entering any one of the three emphases in music education must complete the same audition procedures as those of performance majors. At the end of the second year or after having completed the required courses, students will participate in an interview with an appointed Admissions Board. Upon receiving positive recommendation from this board, students are admitted to the teacher education program and permitted to take required upper division education courses.

Students who pursue the music education curriculum are subject to all rules and regulations of the Teacher Education Program, which is housed in the College of Education, Heath, and Human Sciences, notwithstanding the fact that their degree will be awarded from the College of Arts and Sciences.
Ensembles

Ensemble participation during each semester of residence is required of all students studying applied music. Students are required to participate in ensembles appropriate to their specific degree program as approved by the faculty of the department. Ensemble requirements vary among the concentrations and are listed in the School of Music Undergraduate Handbook, which is available in Room 211, Music Building. Enrollment in all ensembles is by audition or consent of instructor.

Applied Music

Applied study is classified as principal or secondary. Students studying their principal (major) instrument register for credit appropriate to their program, 2-4 credit hours; students studying a secondary instrument register for 1 hour of credit. Study at the principal level receives one hour of private instruction per week or a one-hour class lesson plus a half-hour private lesson. Determination of the mode of instruction rests with the department. Study at the secondary level receives one-half hour private instruction per week or its equivalent in class instruction. Applied music courses do not permit non-credit registration nor may students elect non-conventional grading.

Area study guides for all sections of the examination are available in the Music Office.

All music majors are required to register for Music General 200—Solo Class every fall and spring semester with the exception of the semester in which they are student teaching. The requirements for this course are to attend scheduled concerts, recitals, master classes, repertoire, and solo classes, and to perform at least once each semester as partial fulfillment of applied music credit requirements.

Applied Music Fees: $80 per semester for half-hour lesson (1 credit hour); $160 per semester for hour lesson (2-4 credit hours). Computer registration and applied music fee payment must be verified in the School of Music office no later than the end of the second day of classes of the fall, and spring semesters and the first day of the summer terms in order to be accepted for applied music study. Applied music fees are not refundable after lessons have been scheduled.

Keyboard Skills Proficiency Examination

Proficiency in keyboard skills is required of all music majors and is usually acquired in the four-semester series of Class Piano I, II, III, IV (Music Keyboard 110, 120, 210, 220). Students who already possess keyboard skills may pass a proficiency examination in lieu of these courses.

Recital Attendance Policy

The faculty of the School of Music believes that exposure to a variety of live musical performances is an important part of the education of students studying music at the university level. As a result, the faculty has put in place a recital attendance requirement for undergraduate music students. Regular recital attendance helps students become acquainted with accepted norms of recital presentation, furnishes them with opportunities to get to know and respect the talents of other students and faculty in the School of Music, and helps them establish the habit of attending musical performances after graduation. Specific recital attendance requirements are listed in the School of Music Undergraduate Student Handbook.

Bachelor of Music Degree

Music Major

The School of Music offers curricula leading to the Bachelor of Music degree with concentrations in music theory/composition, music education, and applied music (voice; piano; organ; sacred music-organ or piano; sacred music-voice; piano pedagogy; strings; woodwind, brass, and percussion instruments; studio music and jazz). This study prepares students for graduate music study or for positions in music for which a professional music degree is required.

The general education (6 hours foreign language) requirement is in addition to the university admission requirement. Students may continue at the 200 level in a language begun in high school or elect to begin a new language at the 100 level. Students majoring in vocal performance must complete one year each of two languages chosen from French, German and Italian.

Music Education Concentration

Students seeking licensure to teach music in the public schools should pursue one of the options within this degree program. Four-year and five-year options are available to prepare teachers for instrumental teaching or for the teaching of vocal and general music. The four-year program leads to the degree and to teaching licensure. The five-year program provides for the granting of the degree at the end of four years, with teacher licensure being awarded after a fifth-year, graduate level internship. Students choosing the five-year program earn twenty-four hours which may be applied to the master’s degree.

Requirements for the Bachelor of Music • Music Major

• Music Education Concentration — Wind/Percussion Emphasis (5-year option)

Exempt from the University General Education Requirement until Fall 2005

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<td></td>
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<td>Music History 200</td>
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<tr>
<td>Music Keyboard 110, 120</td>
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| Sophomore Year |
| Music Theory 210, 220 | 3,3 |
| Music Theory 230, 240 | 1,1 |
| Music Performance | 2,2 |
| Music General 200 | 0,0 |
| Music History 210, 220 | 3,3 |
| Music Education 210, 211 | 1,1 |
| Music Education 220, 221 | 1,1 |
| *Music Ensemble | 1,1 |
| Music Ensemble 359 | 1 |
| Educational Psychology 210 | 3 |
| Social Science | 3 |
| Mathematics 115 | 3 |
### Requirements for the Bachelor of Music • Music Major • Music Education Concentration—Wind/Percussion Emphasis (4-year alternative)

*Exempt from the University General Education Requirement until Fall 2005*

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<tr>
<td>Music Performance</td>
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### Junior Year

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</table>

* To be chosen from Music Ensemble 350, 352, 353.

### Requirements for the Bachelor of Music Degree • Music Major • Music Education Concentration—String Emphasis (5-year option)

*Exempt from the University General Education Requirement until Fall 2005*

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory 110, 120</td>
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</tr>
<tr>
<td>Music Theory 130, 140</td>
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</tr>
<tr>
<td>Music Performance</td>
<td>1.1</td>
</tr>
<tr>
<td>Music General 200</td>
<td>0.0</td>
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<tr>
<td>Music Education 240 or 241</td>
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<tr>
<td>Music Education 210, 211</td>
<td>1.1</td>
</tr>
<tr>
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</tr>
<tr>
<td><em>Music Ensemble</em></td>
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</tr>
<tr>
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</tr>
<tr>
<td>Music Theory 310</td>
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<td>Music Theory 320</td>
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<tr>
<td>Music Performance</td>
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<tr>
<td>Concert Ensemble</td>
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<tr>
<td>Music Education 310, 320</td>
<td>3.2</td>
</tr>
<tr>
<td>Natural Science</td>
<td>3.3</td>
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<table>
<thead>
<tr>
<th>Hours Credit</th>
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</thead>
<tbody>
<tr>
<td>Total 136</td>
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* Chosen from: Music Ensemble 350, 352 or 353.

<table>
<thead>
<tr>
<th>Sophomore</th>
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<tbody>
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<td>Music Performance</td>
<td>2.2</td>
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<tr>
<td>Music History 210, 220</td>
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<tr>
<td>Music Education 240, 241</td>
<td>1.1</td>
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<tr>
<td>Music Ensemble 370</td>
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<tr>
<td>Chamber Ensemble</td>
<td>1.1</td>
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<tr>
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<td>Mathematics 115</td>
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<table>
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<td>Music Theory 320</td>
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<td>Music Theory 330</td>
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<td>Music Theory 340</td>
<td>2.2</td>
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<tr>
<td>Natural Science</td>
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<td>Music Education 310, 320</td>
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<td>1.1</td>
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<td>Music Education 310, 320</td>
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<tr>
<td>Natural Science</td>
<td>3.3</td>
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<tr>
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<td>3.2</td>
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<tr>
<td>Music Theory 330</td>
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</table>
### Requirements for the Bachelor of Music • Music Major • Music Education Concentration—String Emphasis (4-year alternative)

*Exempt from the University General Education Requirement until Fall 2005*

#### Freshman

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>English 101, 102</td>
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<td>Music Theory 110, 120</td>
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<td>Music Theory 130, 140</td>
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<tr>
<td>Music Performance</td>
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<td>Music Ensemble 370</td>
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<td>Music General 200</td>
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<td>Music History 200</td>
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<tr>
<td>Foreign Language</td>
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<td>Social Science</td>
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#### Sophomore

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Music Theory 210, 220</td>
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<td>Music Theory 230, 240</td>
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<td>Music History 210, 220</td>
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<td>Music Education 220</td>
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<tr>
<td>Music Education 240, 241</td>
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<tr>
<td>Music Ensemble 370</td>
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<tr>
<td>Chamber Ensemble</td>
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<td>Educational Psychology 210</td>
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<tr>
<td>Mathematics 115</td>
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#### Junior

<table>
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</thead>
<tbody>
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<tr>
<td>Music Theory 320</td>
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#### Senior

<table>
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<td>Music Education 350</td>
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<td>Music History 380</td>
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<td>Music Education 340</td>
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<td>Music Education 420</td>
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### Total: 133

### Requirements for the Bachelor of Music • Music Major • Music Education—Vocal/General Concentration/Keyboard Emphasis (5-year option)

*Exempt from the University General Education Requirement until Fall 2005*

#### Freshman

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>English 101,102</td>
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<tr>
<td>Music Theory 110,120</td>
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<td>Music Theory 130,140</td>
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<td>Music Performance</td>
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<tr>
<td>Music Performance (keyboard)</td>
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<tr>
<td>Music Performance (voice)</td>
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<td>Music General 200</td>
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<td>Music History 200</td>
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<tr>
<td>Music Ensemble 370</td>
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<tr>
<td>Music Education 200</td>
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<tr>
<td>Music History 210, 220</td>
<td>1</td>
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<tr>
<td>Music Education 210</td>
<td>1</td>
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<tr>
<td>Music Education 220</td>
<td>1</td>
</tr>
<tr>
<td>Music Education 240, 241</td>
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</tr>
<tr>
<td>Music Ensemble 370</td>
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<tr>
<td>Chamber Ensemble</td>
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<tr>
<td>Educational Psychology 210</td>
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<tr>
<td>Mathematics 115</td>
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#### Sophomore

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<tr>
<td>Music Theory 230, 240</td>
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<tr>
<td>Music Performance</td>
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<tr>
<td>Music Performance (keyboard)</td>
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<td>Music Performance (voice)</td>
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<td>Music History 200</td>
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<tr>
<td>Music Education 200</td>
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<tr>
<td>Educational Psychology 210</td>
<td>3</td>
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<tr>
<td>Mathematics 115</td>
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#### Junior

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<tr>
<td>Music Theory 320</td>
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<td>Music Performance (keyboard)</td>
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</tr>
<tr>
<td>Music General 200</td>
<td>0</td>
</tr>
<tr>
<td>Music Ensemble 370</td>
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</tr>
<tr>
<td>Music Education 250</td>
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</tr>
<tr>
<td>Music Education 210 or 211</td>
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</tr>
<tr>
<td>Music Education 200</td>
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</tbody>
</table>

### Total: 125 plus 24 graduate
### Requirements for the Bachelor of Music • Music Major •
#### Music Education—Vocal/General Concentration/
Keyboard Emphasis (4-year alternative)

*Exempt from the University General Education Requirement until Fall 2005*

<table>
<thead>
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<tbody>
<tr>
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<tr>
<td>English 101,102</td>
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<td>Music Theory 110,120</td>
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<td>Music Theory 130,140</td>
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<tr>
<td>Music Performance (voice)</td>
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<tr>
<td>Music Education 240 or 241</td>
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<td>1</td>
</tr>
<tr>
<td>Music General 200</td>
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<td>0</td>
</tr>
<tr>
<td>Music Ensemble</td>
<td></td>
<td>1</td>
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<tr>
<td>Music History 200</td>
<td></td>
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<td>Foreign Language</td>
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<td>Social Science</td>
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<tr>
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<td>Music Theory 210, 220</td>
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<tr>
<td>Music Theory 230, 240</td>
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<tr>
<td>Music Performance (keyboard)</td>
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<tr>
<td>Music Performance (voice)</td>
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<tr>
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<tr>
<td>Music Ensemble</td>
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<tr>
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<td>Music Education 260</td>
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<td>Natural Science</td>
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<td>Mathematics 115</td>
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<tr>
<td>Non-US History</td>
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<tr>
<td>Junior</td>
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<td>Music Theory 310</td>
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<td>Music Theory 320</td>
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<tr>
<td>Music Performance (keyboard)</td>
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*Optional Full Recital with approval of major area.*

#### Requirements for the Bachelor of Music • Music Major •
#### Music Education—Vocal/General Concentration/
Vocal Emphasis (5-year option)

*Exempt from the University General Education Requirement until Fall 2005*

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
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<tbody>
<tr>
<td>Freshman</td>
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<tr>
<td>English 101,102</td>
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<td>Music Ensemble</td>
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<tr>
<td>Music History 210, 220</td>
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<td>Music Education 260</td>
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<td>Mathematics 115</td>
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<tr>
<td>Junior</td>
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<tr>
<td>Music Theory 310</td>
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<td>3</td>
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<td>Music Theory 320</td>
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<td>Music Performance (voice)</td>
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<tr>
<td>Music General 200</td>
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<tr>
<td>Music Ensemble</td>
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<tr>
<td>Music Education 250</td>
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Music Education 210 or 211 .......................... 1
Music Education 310, 320 .......................... 3,2
Music Theory 450 .......................... 2
Music History 380 .......................... 3
Non-US History .......................... 3
Social Science .......................... 3
Senior
Music Performance (voice) .......................... 2,2
Music General 200 .......................... 0,0
**Music Ensemble .......................... 1,1
Music General 301* .......................... 0
Music Education 200 .......................... 3
Music Education 330 .......................... 3
Music Education 350 .......................... 3
Music Education 420 .......................... 3
Music Education 430 .......................... 3
Music Voice 450 .......................... 2
Cultural Studies in Education 400 .......................... 2
Educational Psychology 401 .......................... 2
Special Education 402* .......................... 2
Instructional Technology 486 .......................... 2
Non-US History .......................... 3
*Optional Full Recital with approval of major area.
Internship Year
Music Education 575 .......................... 12
Music Education 574 .......................... 2
Music Education 591 .......................... 4
Music Electives .......................... 6
Total 127 plus 24 graduate
**Music Ensemble 340 (1 hour). Remaining hours to be chosen from Music Ensemble
330, 380, 383, 389.

Requirements for the Bachelor of Music • Music Major •
Music Education—Vocal/General Concentration/
Vocal Emphasis (4-year alternative)
Exempt from the University General Education Requirement until Fall 2005
Freshman Hours Credit
English 101,102 .......................... 6
Music Theory 110,120 .......................... 6
Music Theory 130, 140 .......................... 2
Music Performance (voice) .......................... 2,2
Music Keyboard 110,120 .......................... 2
Music Education 240 or 241 .......................... 1
Music General 200 .......................... 0,0
**Music Ensemble .......................... 1,1
Music History 200 .......................... 3
Foreign Language .......................... 3
Social Science .......................... 3
Sophomore
Music Theory 210, 220 .......................... 6
Music Theory 230, 240 .......................... 2
Music Performance (voice) .......................... 2,2
Music Keyboard 210, 220 .......................... 2
Music General 200 .......................... 0,0
**Music Ensemble .......................... 1,1
Music History 210, 220 .......................... 6
Music Education 200 .......................... 1
Music Education 260 .......................... 1
Music Education 201 .......................... 1
Educational Psychology 210 .......................... 3
Natural Science .......................... 3
Mathematics 115 .......................... 3
Non-US History .......................... 3
Junior
Music History 380 .......................... 3
Music Theory 310 .......................... 3
Music Performance 390 .......................... 4,4
Music Keyboard 230 .......................... 1
Music Keyboard 240 .......................... 1
Music Theory 430 .......................... 3
**Music Ensemble .......................... 1,1
Music General 200 .......................... 0,0
*Optional Full Recital with approval of major area.
Music General 301 ................................................................. 6
Social Science .................................................................................. 6
Electives ......................................................................................... 6

**Senior**
Music Education 310 ................................................................. 3
Music Keyboard 310, 320 ........................................................... 2
Electives ......................................................................................... 6
Music Performance 490 ............................................................ 4,4
*Music Ensemble ........................................................................... 1,1
Natural Science ............................................................................... 6
Music General 200 ........................................................................ 0,0
Music General 401 ........................................................................ 0
Music Keyboard 460, 470 ........................................................... 6

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Total 129

*Organ majors take Class Voice (Music Vocal 110-120) and/or Voice (Music Performance 155).
*To be chosen from Music Ensemble 399 (maximum 4 hours), 330, 380, 383, or 389.

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### Requirements for the Bachelor of Music • Music Major • Piano Concentration

**Exempt from the University General Education Requirement until Fall 2005**

#### Freshman

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
</tr>
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<tbody>
<tr>
<td>English 101,102</td>
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</tr>
<tr>
<td>Music Theory 110,120</td>
<td>6</td>
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<tr>
<td>Music Theory 130,140</td>
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<tr>
<td>Music Performance 180</td>
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<tr>
<td>*Music Ensemble</td>
<td>1,1</td>
</tr>
<tr>
<td>Music General 200</td>
<td>0,0</td>
</tr>
<tr>
<td>Music History 200</td>
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</tr>
<tr>
<td>Foreign Language</td>
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</tr>
</tbody>
</table>

#### Sophomore

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory 210, 220</td>
<td>6</td>
</tr>
<tr>
<td>Music Theory 230, 240</td>
<td>2</td>
</tr>
<tr>
<td>Music Performance 280</td>
<td>4,4</td>
</tr>
<tr>
<td>Music General 200</td>
<td>0,0</td>
</tr>
<tr>
<td>Music History 210, 220</td>
<td>6</td>
</tr>
<tr>
<td>*Music Ensemble</td>
<td>1,1</td>
</tr>
<tr>
<td>Natural Science</td>
<td>6</td>
</tr>
<tr>
<td>Music Electives</td>
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#### Junior

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Music History 380</td>
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<tr>
<td>Music Keyboard 420, 430</td>
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<tr>
<td>Music Theory 310</td>
<td>3</td>
</tr>
<tr>
<td>Music Performance 380</td>
<td>4,4</td>
</tr>
<tr>
<td>Music General 200</td>
<td>0,0</td>
</tr>
<tr>
<td>Music General 301</td>
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</tr>
<tr>
<td>*Music Ensemble</td>
<td>1,1</td>
</tr>
<tr>
<td>Music Education 310</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
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#### Senior

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Keyboard 230</td>
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<td>Music Keyboard 340</td>
<td>3</td>
</tr>
<tr>
<td>Music Performance 480</td>
<td>4,4</td>
</tr>
<tr>
<td>Music General 200</td>
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</tr>
<tr>
<td>Music General 401</td>
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<td>Electives</td>
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</tbody>
</table>

---

Total 130

*2 hours to be chosen from Music Ensemble 330, 350, 353, 370, 380, 383, or 389.
6 hours of Music Ensemble 399.

### Requirements for the Bachelor of Music • Music Major • Sacred Music Concentration • Organ Track

**Exempt from the University General Education Requirement until Fall 2005**

#### Freshman

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101, 102</td>
<td>6</td>
</tr>
<tr>
<td>Music Theory 110, 120</td>
<td>6</td>
</tr>
<tr>
<td>Music Theory 130, 140</td>
<td>2</td>
</tr>
<tr>
<td>Music Performance 190 (organ)</td>
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<tr>
<td>*Music Ensemble</td>
<td>1,1</td>
</tr>
<tr>
<td>Music Vocal 110 (voice)</td>
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</tr>
<tr>
<td>Electives</td>
<td>6</td>
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</table>

#### Sophomore

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory 210, 220</td>
<td>6</td>
</tr>
<tr>
<td>Music Theory 230, 240</td>
<td>2</td>
</tr>
<tr>
<td>Music Performance 280</td>
<td>3,3</td>
</tr>
<tr>
<td>Music General 200</td>
<td>0,0</td>
</tr>
<tr>
<td>Music History 210, 220</td>
<td>6</td>
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<tr>
<td>*Music Ensemble</td>
<td>1,1</td>
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<tr>
<td>Natural Science</td>
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<tr>
<td>Music Keyboard 340, 350</td>
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<tr>
<td>Music Keyboard 490-491 Internship</td>
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</table>

---

Total 130

*2 hours to be chosen from Music Ensemble 330, 350, 353, 370, 380, 383, or 389.
6 hours of Music Ensemble 399.
## Requirements for the Bachelor of Music • Music Major • Sacred Music Concentration • Piano Track

*Exempt from the University General Education Requirement until Fall 2005*

### Freshman

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>English 101, 102</td>
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<td>6</td>
</tr>
<tr>
<td>Music Theory 110, 120</td>
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<td>Music Theory 130, 140</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Music Performance 180 (piano)</td>
<td>3,3</td>
<td>3</td>
</tr>
<tr>
<td>Music Performance 190 (organ)</td>
<td>1,1</td>
<td>1,1</td>
</tr>
<tr>
<td>Music Ensemble</td>
<td>1,1</td>
<td>1,1</td>
</tr>
<tr>
<td>Music General 200</td>
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<td>Music History 200</td>
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</tr>
<tr>
<td>Foreign Language</td>
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### Sophomore

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>Music Theory 210, 220</td>
<td>6</td>
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</tr>
<tr>
<td>Music Theory 230, 240</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Music Performance 280 (piano)</td>
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<td>3</td>
</tr>
<tr>
<td>Music General 200</td>
<td>0,0</td>
<td>0</td>
</tr>
<tr>
<td>Music History 210, 220</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Music Ensemble</td>
<td>1,1</td>
<td>1,1</td>
</tr>
<tr>
<td>Music Performance 290 (organ)</td>
<td>1,1</td>
<td>1,1</td>
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<tr>
<td>Music Keyboard 230</td>
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<tr>
<td>Natural Science</td>
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### Junior

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Science</td>
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<td>6</td>
</tr>
<tr>
<td>Music History 380</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Music History 480</td>
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### Senior

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>Music Theory 310</td>
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<td>3</td>
</tr>
<tr>
<td>Music Performance 380 (piano)</td>
<td>3,3</td>
<td>3</td>
</tr>
<tr>
<td>Music Performance</td>
<td>1,1</td>
<td>1,1</td>
</tr>
<tr>
<td>Music General 200</td>
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<td>0</td>
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<tr>
<td>Music General 301</td>
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<td>Music Ensemble</td>
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<td>1,1</td>
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<tr>
<td>Music Education 310, 320</td>
<td>3,2</td>
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<tr>
<td>Religious Studies</td>
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</table>

### Music Keyboard

- Piano majors take 4 hours of accompanying and 4 hours of choir.
- Piano majors take Class Voice (Music Voice 110, 120) 1,1 and/or Voice (Music Performance 155) 1,1.

### Music History

- To be chosen from Religious Studies 101, 102, 232, 305, 311, 322, 326, 351, 352, 355, 370, 425, 430.

- To be chosen from Music Ensemble 399 (maximum 4 hours), 330, 380, 383, 389.

### Electives

- From Religious Studies.
- From Social Science.
- From English 101, 102.
- From Music Theory 110, 120.
- From Music Theory 130, 140.
- From Music Performance 180 (piano).
- From Music Performance 190 (organ).
- From Music Ensemble.
- From Music General 200.
- From Music History 200.
- From Foreign Language.
- From Music Education 200.
- From Music Keyboard 230.
- From Music Keyboard 240.
- From Music Education 200.
- From Natural Science.
- From Social Science.
- From Music History 380.
- From Music History 480.

### Total

- Freshman: 132 hours
- Sophomore: 132 hours
- Junior: 132 hours
- Senior: 132 hours
Requirements for the Bachelor of Music • Music Major • Strings Concentration

Exempt from the University General Education Requirement until Fall 2005

**Freshman**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
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</thead>
<tbody>
<tr>
<td>English 101, 102</td>
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<tr>
<td>Music Theory 110, 120</td>
<td>3.3</td>
</tr>
<tr>
<td>Music Theory 130, 140</td>
<td>1.1</td>
</tr>
<tr>
<td>Music History 200</td>
<td>3.3</td>
</tr>
<tr>
<td>Music Performance (100 level)</td>
<td>4.4</td>
</tr>
<tr>
<td>Music Keyboard 110, 120</td>
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<td>Music General 200</td>
<td>0.0</td>
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<tr>
<td>Natural Science</td>
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**Sophomore**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
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</thead>
<tbody>
<tr>
<td>Music Theory 210, 220</td>
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<tr>
<td>Music Theory 230, 240</td>
<td>1.1</td>
</tr>
<tr>
<td>Music History 210, 220</td>
<td>3.3</td>
</tr>
<tr>
<td>Music Keyboard 210, 220</td>
<td>1.1</td>
</tr>
<tr>
<td>Music Performance (200 level)</td>
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<td>Music General 200</td>
<td>0.0</td>
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<tr>
<td>Foreign Language</td>
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**Junior**

<table>
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<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Music Theory 310</td>
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<td>Music Theory 320</td>
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<tr>
<td>Music History 380</td>
<td>3</td>
</tr>
<tr>
<td>Music Performance (300 level)</td>
<td>4.4</td>
</tr>
<tr>
<td>Music Ensemble 370</td>
<td>1.1</td>
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<tr>
<td>Music Education 310</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science</td>
<td>3</td>
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<td>Music Electives</td>
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<tr>
<td>Music General 200</td>
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<tr>
<td>Music General 301</td>
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**Senior**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
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<tbody>
<tr>
<td>Music Performance (400 level)</td>
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<tr>
<td>Music Instrumental 340, 350</td>
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<tr>
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<td>Non-US History</td>
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<tr>
<td>Music General 401</td>
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<tr>
<td>Electives</td>
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</table>

| Total                                 | 130          |

*To be chosen from Music Ensemble 303, 304, 305, 306.

Requirements for the Bachelor of Music • Music Major • Studio Music and Jazz Concentration

Exempt from the University General Education Requirement until Fall 2005

**Freshman**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
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</thead>
<tbody>
<tr>
<td>English 101, 102</td>
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<tr>
<td>Music Theory 130, 140</td>
<td>1.1</td>
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<tr>
<td>Music History 200</td>
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<tr>
<td>Music Theory 350</td>
<td>3</td>
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<tr>
<td>Music Jazz 110</td>
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<tr>
<td>Music Jazz 130, 140</td>
<td>1.1</td>
</tr>
<tr>
<td>Music Performance (100 level)</td>
<td>3</td>
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<td>Music Ensemble</td>
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</tr>
<tr>
<td>Music General 200</td>
<td>0</td>
</tr>
<tr>
<td>Electives</td>
<td>0</td>
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</tbody>
</table>

| Total                                 | 131          |

*To be chosen from Music Ensemble 303, 304, 305, 306.

Requirements for the Bachelor of Music • Music Major • Theory/Composition Concentration

Exempt from the University General Education Requirement until Fall 2005

**Freshman**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101, 102</td>
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</tr>
<tr>
<td>Music Theory 110, 120</td>
<td>3.3</td>
</tr>
<tr>
<td>Music Theory 130, 140</td>
<td>1.1</td>
</tr>
<tr>
<td>Music History 200</td>
<td>3</td>
</tr>
<tr>
<td>Music Ensemble</td>
<td>1.1</td>
</tr>
<tr>
<td>Music General 200</td>
<td>0</td>
</tr>
<tr>
<td>Music Keyboard 110, 120</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total                                 | 12           |

*To be chosen from Music Ensemble 303, 304, 305, 306.
requirements for the bachelor of music • music major • voice concentration

exempt from the university general education requirement until fall 2005

sophomore

- music theory 210, 220 ........................................... 3,3
- music theory 230, 240 ........................................... 1,1
- music performance 294 ....................................... 2,2
- music technology 290 ......................................... 3
- music technology 390 ......................................... 3
- music history 210, 220 ......................................... 3,3
- music ensemble .................................................. 1,1
- music general 200 ............................................. 0,0
- music keyboard 210, 220 ................................... 1,1
- non-us history .................................................... 6

junior

- music theory 310 ................................................... 3
- music theory 420 ................................................... 3
- music history 390 ................................................ 2
- music performance .......................................... 1,1
- area study .............................................................. 6
- music ensemble .................................................. 1,1
- music general 200 ............................................. 0,0
- electives .............................................................. 6
- natural science .................................................... 6

senior

- music theory 430, 440 ......................................... 3,3
- music performance ........................................... 1,1
- area study .............................................................. 6
- music ensemble .................................................. 1,1
- music education 310 ........................................... 3
- arts and sciences electives .................................. 3
- music general 200 ............................................. 0,0
- social science ..................................................... 6
- electives .............................................................. 6

 requirements bachelor of music • music major • woodwind, brass, and percussion instruments concentration

exempt from the university general education requirement until fall 2005

freshman

<table>
<thead>
<tr>
<th>english 101, 102</th>
<th>music theory 101, 120</th>
<th>music theory 130, 140</th>
<th>music history 100</th>
<th>music performance 150</th>
<th>music ensemble</th>
<th>music keyboard 100, 120</th>
<th>foreign language</th>
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<tbody>
<tr>
<td>3,3</td>
<td>3,3</td>
<td>1,1</td>
<td>2</td>
<td>4,4</td>
<td>1,1</td>
<td>1,1</td>
<td>3,3</td>
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sophomore

<table>
<thead>
<tr>
<th>music theory 210, 220</th>
<th>music theory 230, 240</th>
<th>music history 210, 220</th>
<th>music performance 255</th>
<th>music ensemble</th>
<th>music keyboard 210, 220</th>
<th>music general 200</th>
<th>music vocal 230</th>
<th>music vocal 240, 250</th>
<th>electives</th>
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<tbody>
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<td>3,3</td>
<td>1,1</td>
<td>3,3</td>
<td>4,4</td>
<td>1,1</td>
<td>1,1</td>
<td>0,0</td>
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<td>2,2</td>
<td>3</td>
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junior

<table>
<thead>
<tr>
<th>music theory 310</th>
<th>music theory 320</th>
<th>music performance (300 level or above)</th>
<th>music ensemble</th>
<th>music history 380</th>
<th>area literature and pedagogy</th>
<th>music general 200</th>
<th>music general 301</th>
<th>electives</th>
<th>natural science</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,3</td>
<td>2</td>
<td>4,4</td>
<td>1,1</td>
<td>3</td>
<td>3</td>
<td>0,0</td>
<td>4</td>
<td>6</td>
<td></td>
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</tbody>
</table>

1 to be chosen from music ensemble 340 (maximum 2 hours), 380, 330, 383, or 389.
2 humanities–arts (non–music), literature, philosophical perspectives, interdisciplinary studies.
3 must take one year of two languages from french, german, or italian.
Senior
Music Education 310 ......................................................... 3
Music Electives .................................................................. 4
Music Performance (400 level) ........................................ 4, 4
*Music Ensemble .................................................................. 1, 1
Music General 200 .......................................................... 0, 0
Music General 401 .......................................................... 0
Non-US History ................................................................... 6
Electives ................................................................................. 6

Total 127

* To be chosen from Music Ensemble 350, 352, 353, or 370.

BACHELOR OF ARTS DEGREE
MUSIC MAJOR

The School of Music offers curricula leading to the Bachelor of Arts degree with a major and minor in music designed for those students who have a strong interest in music but desire a comprehensive liberal studies program.

Requirements Bachelor of Arts • Music Major

Prerequisites
Music Theory 110, 120 ......................................................... 3, 3
Music Theory 130, 140 ......................................................... 1, 1
Music Performance 100 level ............................................... 1, 1

Courses toward Major
Music Theory 210, 220 ......................................................... 3, 3
Music Theory 230, 240 ......................................................... 1, 1
Music History 200 .............................................................. 3
Music History 210, 220 ......................................................... 3, 3
*Music Performance 200 level or above ............................. 8
**Music General 200 .......................................................... 4
***Music Ensemble ......................................................... 3
Music History (to be selected from Music History 350 or 380)........ 3

Music Electives (0-3 hours) selected from
Music History 460 .............................................................. 3
Music General 301 .............................................................. 0
Music Theory 493 or Music History 493 .............................. 3
Music General 411 .............................................................. 0

Total 45-48

*Students must complete a minimum of four semesters of Music Performance, major instrument/voice at the 200-level or above
**Music General 200 must be completed a minimum of four semesters

Minor in Music

• Minor concentration in applied music consists of 17 hours in courses numbered 200 and above, distributed as follows: Music History 200, 8 hours in applied music, and 6 hours in music electives. Prerequisites are Music Theory 100 or equivalent and two semesters of applied music study (Music Performance) at the 103-190 levels.

• Minor concentration in music history and literature consists of 17 hours in courses numbered 200 and above, distributed as follows: Music History 200, 9 hours in music history and literature courses, and 5 hours in music electives. Prerequisites are Music Theory 100 or equivalent and two semesters of applied music study at the 103-190 levels.

PHILOSOPHY MAJOR

• Prerequisites—3 hours of logic, normally 130 or 135.

• Requirements—24 hours of courses numbered 200 or above, including three hours of ethics, normally 240 or 440, and six hours in the history of philosophy, three in ancient, normally 320, and three in modern, normally 324. Majors are required to discuss their programs with a member of the philosophy faculty.

Minor in Philosophy

The minor consists of 18 hours in courses 200 or above. Minors should discuss their program with a member of the philosophy faculty.
Physics is the study of matter and energy and their interactions from microscopic to macroscopic regimes. It is the most fundamental physical science in the sense that the laws of physics form the foundation of all natural sciences. The undergraduate physics major provides a thorough introduction to the core areas of physics while offering students flexibility to pursue special interests through our academic, applied, or general concentrations. The academic concentration is intended for students interested in professional employment or graduate work in physics or closely related fields such as astronomy, engineering, laser technology, or computational science. The applied concentration introduces students to the physics and technology of today and tomorrow. Such a broad physics background is increasingly useful in technological and industrial fields outside of physics. The general concentration is intended for students who wish to apply a substantial knowledge of physics to fields such as secondary education, medicine, law, journalism, business, or any field of their choice.

**Physics Major**

Physics 137-138 or 135-136; Mathematics 141-142 and Computer Science 102 are prerequisites to the major.

**Academic Concentration**

The academic concentration consists of 41 hours: Mathematics 231 and 241; Physics 240, 311-312, 321, 361, 411-412, 421, 431-432, and 461. Physics 401 is recommended.

**Applied Concentration**

The applied concentration consists of 41 hours: Mathematics 241; Physics 240, 311-312, 321, 361, 401, 421, 441-442, 453-454 and 461.

**General Concentration**

The general concentration consists of 40-41 hours: Mathematics 241, Physics 240, 311, 321 and 361, one lab course, chosen from 421, 453, and 461, and three core courses, chosen from 312, 411, 412, 431, 432, 441, 442. In addition, 12 coordinated hours in an area of the student's special interest are to be chosen by the student in consultation with a departmental advisor.

**Honors Academic and Honors Applied Concentrations**

Students who complete all requirements for the academic or applied concentrations will be awarded a degree with honors if their university-wide GPA is at least 3.0 and their GPA in 300- and 400-level mathematics and physics courses is at least 3.5.

**Minor in Physics**

A physics minor consists of 23-25 hours: Physics 137-138, 240, or 135-136, 240 and twelve hours from physics and astronomy courses numbered 300 and above.

**Minor in Astronomy**

An astronomy minor consists of 24 hours: one year of introductory astronomy, Astronomy 411, 490 (3), Physics 311-12, and 421.
The Department of Political Science offers a variety of courses of general interest to undergraduates, as well as ample opportunity for students to specialize in the study of government and politics. The political science discipline is broad and diverse, ranging from the study of campaigns and elections to analysis of political philosophy. Political science gives attention to the theory and practice of government at all levels from local to international, as well as to the complex relationships between social values and the formulation of public policy. As a blend of the theoretical and the practical, political science has much to offer as an undergraduate major and as an elective field for the non-major. It provides a broad liberal arts background for professional careers in law, government service, foreign service, business, journalism, and public school teaching. It offers a good foundation for those wishing to pursue post-graduate study, especially in the fields of law, political science, and public administration. For those interested in specializing in fields outside of law and government, political science courses can contribute significantly to an awareness of public issues and an appreciation of the complexity of modern society.

**POLITICAL SCIENCE MAJOR**

Political Science 101 or 107, and 102 are prerequisites to the major. The major consists of 24 hours of courses numbered 300 or above. These 24 hours must include at least one course in each of the four areas of the discipline:

- Comparative Government and Politics: 350, 361, 452, 454, 455, 459, 461, 463.
- Political Theory: 300, 374, 475, and 476.

**Honors Concentration**

The honors concentration encourages highly motivated students to obtain a superior liberal education and more rigorous preparation in the discipline. Admission is selective. The honors concentration consists of 27 hours of courses numbered 300 or above, including 387, 388, 487, and 488. These 27 hours must include at least one course in each of the four areas of the discipline: Political Science 387 and 388 may be used to satisfy this requirement in the appropriate area.

To graduate with honors in political science, the student must have a minimum GPA of 3.3 in political science, and a minimum cumulative GPA of 3.0.

**Public Administration Concentration**

Students majoring in political science who wish to prepare for a career in the public service may select to follow the concentration in public administration. Political Science 101 or 107, 102 and Economics 201 are prerequisites to the major in political science with a concentration in public administration. The concentration consists of 27 hours of coursework in political science, economics, and accounting. Students must complete Political Science 340, 401, two of the following: Political Science 440, 441 or 442; and two of the following: Economics 471, 472 or Accounting 201. Students must also include one course in each of the three remaining fields of political science: comparative government and politics, international relations, and political theory.

**Minor in Political Science**

Prerequisites to the minor are Political Science 101 or 107 and 102. The minor consists of 15 hours of courses numbered 300 and above.
Psychology studies the array of biological, environmental, and social influences on normal and abnormal behavior. Psychology studies behavior using both basic and applied scientific research strategies. The psychology major offers students the opportunity to learn about behavior as a general liberal arts degree applicable to a wide variety of careers or as preparation for an advanced degree in professional and graduate programs.

PSYCHOLOGY MAJOR

Prerequisites are one year of a biological science (e.g. Biology 101-102), Psychology 110 with a grade of C or better, and a GPA of at least 2.00.

The major consists of 24 hours of Psychology at the 200 level or higher:

- Either Psychology 295 or Psychology 395 (prerequisites to Psychology 395 are Psychology 385 or Statistics 201 or Mathematics 115).
- Three courses from Psychology 210, 220, 300, 310, 320, 330, 360, 370.
- Two additional psychology courses at the 300 level or higher.
- Two additional psychology courses at the 400 level.

No more than six hours of 399, 489, 491, 492, 493 may be used in this major. Continuation in the psychology major requires maintenance of a GPA of 2.00. Students placed on Academic Review will be informed in writing that they are on probation and their records will be reviewed. Students who continue on Academic Review will be dropped from the major.

Honors Concentration

The Psychology Department offers an honors concentration that is a specially designed individualized mentorship program. University Honors students and psychology majors with ACT scores of 29 or higher (or SAT equivalent) may apply. Admission to the program will be on the basis of the review of the candidate’s application and interview by the Psychology Honors Faculty, normally in the student’s second year. Any semester with a GPA below 3.2 will lead to consideration of a student’s dismissal from the program by the program faculty. The honors concentration includes all the requirements of the psychology major and at least ten hours of upper-division psychology honors courses, including at least four hours of Psychology 347 (continuous registration is preferred), three hours of Psychology 367, and three hours of Psychology 467.

Minor in Psychology

The minor consists of 110 or equivalent; and 15 additional hours at the 300 level and above. (Psychology 399, 489, 491, 492, 493 cannot be used in this minor.)
concentration consists of at least 27 hours of credit at the 300 level or above, including 499. Up to 9 hours in this concentration may be taken in approved courses from other programs or departments in the College of Arts and Sciences. Students whose vocational goals would best be served by such a major must discuss this option with a faculty member in the department, who will submit any specific proposal to the faculty in religious studies for approval.

**Minor in Religious Studies**

The minor consists of fifteen hours of courses at the 300 level or above, not including related language courses. It is recommended that students minoring in religious studies discuss their program with a member of the department faculty.

**Russian**

See Department of Modern Foreign Languages and Literatures.

**Department of SOCIOLOGY**

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

Donald W. Hastings, *Interim Head*

**Professors**

Hastings, D.W., PhD ........................................ Massachusetts
Shover, N.E., PhD ........................................ Illinois (Urbana)

**Associate Professor**

Cable, S., PhD ........................................ Pennsylvania State
Jalata, A., PhD ........................................ State University of New York (Binghamton)
Jones, R.E., PhD ........................................ Washington State
Kurth, S.B., PhD ......................................... Illinois (Chicago)

**Assistant Professors**

Bui, H., PhD ............................................. Michigan State
Gulick, J., PhD ........................................ California (Santa Cruz)
Presser, L., PhD ......................................... Cincinnati
Shefner, J., PhD ......................................... California (Davis)

The undergraduate program curriculum emphasizes the theme of social justice. Through coursework in the interest areas of criminal justice, political economy, social psychology and environmental issues and globalization, students develop an understanding of everyday social behavior as well as the structural factors that contribute to inequalities across various status hierarchies such as race, ethnicity, class, gender, age and lifestyle. Students also acquire an awareness of the competing perspectives that exist within societies, the ability to critically analyze social trends, and the tools to evaluate social policies.

**SOCIOLOGY MAJOR**

Before applying to the Sociology Department for admission to the major a student must complete either Sociology 110 or 120 or their honors equivalent with a grade of C+ or above. Upon granting admission to the major, the department will assign the student an academic advisor who will help the student plan a program of study for the major. Prerequisites to the major are three lower-division hours in sociology (either 110 or 120 or their honors equivalent) and Statistics 201. The major consists of 27 upper-division hours in sociology and must include 321 and 331 and at least two 400-level courses.

**Criminal Justice Concentration**

All prerequisites and upper-division courses required for general majors are required for this concentration. In addition, the concentration consists of 21 hours of upper-division Sociology as follows: 350, 351, 451, either 455, 459, or 492 and three additional courses selected in consultation with an advisor.

**Environmental Issues and Globalization Concentration**

All prerequisites required for the major are required for this concentration. The concentration in environmental issues and globalization consists of Sociology 321 and 331 and 21 hours of upper-division sociology courses as follows: 360, either 442 or 446, two courses from 344, 464, and 465, and three courses selected in consultation with an advisor.

**Minor in Sociology**

The minor consists of 15 upper-division hours in sociology and must include 321 and 331. Prerequisites to the minor are three lower-division hours in sociology (either 110 or 120 or their honors equivalent) and Statistics 201.

**Minor in Sociology with Concentration in Environmental Issues and Globalization**

The minor consists of 15 hours including Sociology 321, 331, 360 and two courses from 344, 442, 446 and 465. Prerequisite to the minor is either Sociology 110 or 120 and Statistics 201.

**Spanish**

See Department of Modern Foreign Languages and Literatures.

**Department of STATISTICS**

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

Donald W. Hastings, *Interim Head*

See faculty list in the College of Business Administration.

Arts and Sciences students may major or minor in statistics under the supervision of the faculty of the Statistics Department in the College of Business Administration. The major is designed to prepare students for graduate studies in statistics or for professional work in various applications of statistical methods, including applications in the natural and social sciences, business and industry. Contact the Statistics Department for further information on careers in statistics and appropriate courses to take. It is highly recommended that a student majoring in statistics have a minor in an area of application.

**STATISTICS MAJOR**

The major requires 33 semester hours including:

- Statistics 201 or 251.
- Statistics 320, 330, 365, 471.
- Two courses selected from Statistics 472, 473, 474, 475, Mathematics 423, 424, 425.
• Mathematics 141-142 and 241-251, or upper-division Mathematics.
• Two technical electives to be selected from upper-division courses in mathematics, computer science, engineering, physics, or chemistry, with the approval of the student’s advisor in the Department of Statistics.

Students who have completed Mathematics 123-125 should see an advisor to select courses to complete this requirement.

Statistics Minor
The minor consists of Statistics 201 or Statistics 251; an additional 12 hours from Statistics 320, 330, 365, 471, 472, 473, 474, 475; and Mathematics 423, 424, 425.

Department of THEATRE
http://theatre.utk.edu

Blake Robison, Head

Professors
Black, W.R., MFA ................................................................. Illinois
Custer, M., MFA ................................................................. Wisconsin
Robison, B., MFA ............................................................... North Carolina

Associate Professors
Craven, E., MA ................................................................. Tennessee
Gould, B.K.A., MFA ......................................................... Catholic
van den Berg, K., PhD ....................................................... Indiana
Weber, T., MFA ................................................................. Alabama

Assistant Professors
Campelli, J., MFA ............................................................... Penn State
Heil, M., MFA ................................................................. Texas
Yeager, K., BFA ............................................................... Penn State

The department’s program is designed to teach students to think critically; communicate fully, creatively, and effectively; and explore life and literature through study and practice of the theatrical event.

THEATRE MAJOR
Theatre 100 is a prerequisite to a major which consists of 220, 242, 252, 262, 300, 411, 412, 430 and 12 additional hours of theatre courses numbered 200 and above, 3 of which may be in cognate areas approved by the department.

Minor in Theatre
Theatre 100 is a prerequisite to a minor which consists of 15 hours of theatre courses, 6 of which must be upper division.

Department of URBAN AND REGIONAL PLANNING
http://planning.cap.utk.edu/

Bruce Tonn, Interim Head

Professors
Tonn, B.E., PhD ................................................................. Northwestern

Assistant Professors
Jepson, E., PhD ................................................................. Wisconsin

Urban and Regional Planning offers a program of study leading to the professional degree of Master of Science in Planning. For complete information, refer to the Graduate Catalog.

The department also directs the Urban Studies program in the College of Arts and Sciences.

Urban Studies
See Interdisciplinary Programs.

Women’s Studies
See Interdisciplinary Programs.