College of Liberal Arts

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The College of Liberal Arts is home to a wide array of academic disciplines and interdisciplinary programs. Such diverse areas of study as Computer Science and Classics, Anthropology and Zoology, as well as Women's Studies and Latin American Studies, are among the programs organized into twenty-six departments and twelve special programs that comprise the College.

The faculty of these diverse disciplines and interdisciplinary programs have a commitment to provide a comprehensive general education to all students enrolled at The University of Tennessee, Knoxville. General education provides each student who attends this University the opportunity to master those basic learning skills necessary to gain an understanding of that area of study in which the student specializes, and is essential for the continuation of learning throughout life.

Beyond the teaching of general education, Liberal Arts faculty are committed to educating students in a discipline. That education will prepare students for further study at the graduate level, 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. Students must be educated rather than just trained.

The central purposes of a liberal education includes 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 talent 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 Liberal Arts 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 Liberal Arts 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 a dozen or more interdisciplinary programs. The College's faculty help their students prepare for any and all careers. Faculty research and creative activity is the foundation 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 Liberal Arts 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 general curricula, programs of study leading to the baccalaureate degree and also several pre-professional curricula which prepare the student for advanced study but do not lead to a degree from this college.

Degrees Offered

1. 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. Four programs leading to this degree are open to the student.

Basic Program - The program appropriate for most B. A. 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 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.

Pre-Professional Program - The Pre-Professional Program is offered for those who wish to participate in one of the cooperative 3+1 curricula in the health sciences (medicine, dentistry, pharmacy, veterinary medicine, or medical technology). The student proceeds directly to specialized training in the chosen area after the third year of liberal arts study and offers the first year of professional study in lieu of a major concentration in the college in satisfying the requirements for the B. A. degree.

2. BACHELOR OF SCIENCE

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

**Basic Program** - The Basic Program for the B.S. degree contains basic skills and distribution requirements similar to the Basic Program for the B.A. as well as a unique set of requirements for the major including additional study in mathematics, statistics, or laboratory sciences.

**Bachelor of Science in Chemistry** - (See Department of Chemistry.)

**Bachelor of Science in Fine Arts** - (See Department of Art.)

**Bachelor of Science in Music** - (See Department of Music.)

### Requirements for Degrees

**Bachelor of Arts and Bachelor of Science Basic Programs**

Each student seeking a Bachelor of Arts or Bachelor of Science degree must develop a program which includes the following:

1. All University degree requirements as stated in the front section of the Undergraduate Catalog (including, at least one unit of American history on the high school level or 6 semester hours on the college level as mandated by the General Assembly of the State of Tennessee).
2. A minimum of 124 credit hours;
3. At least 40 credit hours in courses numbered 300 or above;
4. Appropriate work to satisfy basic skills, and distribution requirements, counting no course in more than one area (not required in the College Scholars Program);
5. Completion of at least one major (24-40 credits at 200 level or above for B. S. majors and 24-37 credits at 200 level or above for B. A. majors) (up to 6 hours in the major may also be used, where listed, to satisfy basic skills or distribution requirements);
6. Students may choose to develop one or more minors (minimum 15 hours at the 200 level and above); and
7. Students may take up to 20 hours of courses Satisfactory/No Credit in any area outside the major or minor, basic skills or distribution requirements.

### 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**

**English Composition**

**Purpose:**

1. To gain and improve the skills necessary to write English expository prose coherently and convincingly.
2. To improve reading skills.
3. To enhance critical and analytical abilities as applied to key issues and texts.

**Requirement:**

Students may meet this requirement in one of the following four ways: (0-6 credits)

1. By completing six credits in English writing courses in one of the following series: (a) English 101 and 102 (English Composition), (b) English 118 (Honors: English Composition) and English 102 (English Composition). Students who obtain a grade of A or B in 118 will complete their freshman requirement by choosing 102, a sophomore literature course in the English Department, or Advanced Composition 361, (c) 131 and 132 (Composition for Non-Native Speakers of English).
2. By earning a score of 4 or 5 on the College Board Advanced Placement Test in English.
3. By earning a score of 25 or above on the English ACT exam and a composite ACT score of 25 or above and by passing a proficiency examination in writing administered by the English Department.
4. By obtaining CLEP credit for English composition. (Details available from the English Department.) **NOTE:** A student must complete the English Composition requirement prior to enrolling in 200 level (or above) English courses.

**Foreign Language**

**Purpose:**

1. To learn the basic grammar, syntax, and vocabulary of a foreign language;
2. To be able to use a foreign language independently as a tool for oral communicati

**Requirement:**

Completion of the intermediate level sequence of a foreign language or demonstration of competence on a waiver or proficiency examination. A student who has taken two or more years of a foreign language in high school and takes the introductory level sequence in the same language (usually the 100-level sequence) may not use such credit to satisfy graduation requirements (0-12 credits). However, if students elect to take a foreign language in which they have had no previous training, both the elementary and intermediate level sequence may be counted for graduation. Students whose native language is not English may meet this requirement by passing English 131 and 132 and by passing two English language literature courses at the 200 level. These literature courses may also be counted toward the Humanities distribution requirements. (Beginning Fall 1987, no credit for coursework completed in order to satisfy an association deficiency in foreign language may be used to satisfy graduation requirements.)

**Advanced Placement Exam**


**Purpose:**

1. To develop the basic calculation skills necessary to fully appreciate the course of study at the university.
2. To understand the logical processes involved in mathematics, inductive or deductive reasoning, or computing.
3. To acquire the skills that will aid in the process of critical analysis, problem solving, and decision making.

**Requirement:**

One three-credit course chosen from those listed below. Students with a Mathematics ACT score of 24 or above, or those who pass a waiver or proficiency examination on material equivalent to any of these courses, will be exempted from this requirement (0-3 credits). Standards for waiver or proficiency examinations will be set by the appropriate department. Exemption from this requirement will also be granted to students who complete a two-semester mathematics package under Divisional Distribution.

**Computer Science 100 Introduction to Computing; 102 Introduction to Programming**

**Mathematics 110 Algebraic Reasoning; 130 Precalculus; Philosophy 135 Formal Logic.**

### DISTRIBUTION

**1. Divisional Distribution**

**a. Non-United States History**

**Purpose:**

a. To acquire an appreciation for the richness of the past as a statement of human capability, aspiration, and achievement.
b. To develop an historical perspective on a civilization that differs from or serves as the foundation for studying one’s own.
c. To develop the ability to explore continuity and change among historical events and movements, and to be able to assess them critically.
d. To learn to keep one’s own place and time in proper perspective, and to appreciate it more fully because of an awareness of human creativity as revealed through a study of the past of a civilization.
e. To further develop writing skills.

**Requirement:**

Completion of a six-credit two-course, writing emphasis course, lower-division sequence in non-United States History (6 credits).

International students may fulfill this requirement by completing one of the following:

- Writing Emphasis Courses shall require out-of-class writing assignments of at least 3000 words plus at least one in-class essay examination.
ment with a United States History sequence. The following sequences satisfy this requirement:


b. Latin American Studies 251-252 Introduction to Latin American Studies.

c. Natural Science

Purpose:
a. To know and understand the basic vocabulary of at least one scientific discipline.
b. To learn the basic discoveries and their importance in one scientific discipline.
c. To be able to use the tools (i.e. mathematics, laboratory equipment, computers, etc.) of one scientific discipline.
d. To understand how to devise hypotheses and how to devise and perform experiments to test them.
e. To learn to apply the methods of at least one scientific discipline in a "hands on" laboratory experience.
f. To be able to analyze a situation on a college level from one particular scientific perspective.

Requirement:

Part I: A two-course physical or biological science sequence that includes laboratory work. The following sequences satisfy Part I of this requirement:

2. Biology 110-120 General Biology.
4. Chemistry 100 Principles of Chemistry; 110 Introduction to Organic and Biochemistry; 120-130 General Chemistry; 121-131 General Chemistry; 128-138 Honors: General Chemistry.
5. Geography 131-132 Geography of the Natural Environment.

Geological Sciences 101-102 General Geology I, II.


b. Part II: A two-course package in science, mathematics, and/or computer science. The following course packages or any sequence listed in Part I will satisfy this requirement:

Anthropology 110 Human Origins (package with 210); 210 Principles of Biological Anthropology (package with 110).

Astronomy 151-152 Introductory Astronomy (non-lab).

Botany 306 Genetics and Society (package with 309) (Same as Anthropology 306); 309 Biology of Human Affairs (package with 306); 310-330 Plants: An Evolutionary Survey I, II; 330 Field Botany (can be taken as a package with 310 or 320).

Computer Science 111 Computer Organization (package with 112); 112 Data Structures (package with 111).

Mathematics 115 Statistical Reasoning (package with 121); 121 Calculus A (package with 115 or 122 or Statistics 201); 122 Calculus B (package with 115 or 121); 141-142 Calculus I, II (for 147-148 Honors); 151-152 Biocalculus I, II.

Microbiology 210 General Microbiology (package with Zoology 230).

Physiology 121-122 Introductory Physiology; 141-142 Nature of the Physical World.

Statistics 201 Introduction to Statistics (package with Mathematics 121.)


c. Social Science

Purpose:
a. To promote understanding of society and individual relationships.
b. To develop a critical understanding of one or more approaches, perspectives, or methodologies used in the social sciences.
c. To develop analytical skills relevant to current social, economic, or political problems, their origins in society and individuals, and possible perspectives for their resolution.

Requirement:

a. Bachelor of Arts students must complete a minimum of 12 credits from at least two departments or programmatic areas indicated below.
b. Bachelor of Science students must complete a minimum of 6 credits from at least two departments or programmatic areas indicated below.

Afro-American Studies 201-202 Introduction to Afro-American Studies.

Anthropology 120 Prehistoric Archaeology; 150 Cultural Anthropology; 230 American Cultures; 382 Principles of Archaeology.

Botany 305 Socio-Economic Impact of Plants.

Economics 100 Survey of Economic Ideas; 201 Introductory Economics: A Survey Course; 207 Honors: Introductory Economics.

Geography 101-102 World Geography.

Psychology 120 Principles of Psychology; 230 Cultural Geography: Core Concepts; 323 Behavioral Geography.

Human Services 220 Introduction to Human Services.

Linguistics 200 Language, Linguistics and Society.

Music History 310 Introduction to Afro-American Music (Same as Afro-American Studies 310); History 390 World Music.

Political Science 101 United States Government and Politics; 110 Government and Politics; 310 Political Community.

Psychology 110 General Psychology; 117 Social Psychology; 118 Social Psychology; 220d Behavior and Experience: Humanistic Psychology; 390 Social Psychology.

Religious Studies 232 Varieties of Religious Community (Same as Sociology 232); 301 Religious Myth, Symbol, and Ritual.


Speech Communication 100 Introduction to Speech Communication; 220 Interpersonal Communication; 300 Nonverbal Communication; 330 Group Communication.

Women's Studies 220 Women in Society; 375 Gender in Society. (Same as Sociology 375.)

d. Humanities

Purpose:
a. To learn to appreciate and interpret significant literary, philosophical, or religious texts by study and application of selected methods or traditions of thought.
b. To develop further abilities to reason critically, to construct arguments, to think creatively, to analyze objectively, to assess evidence, to perceive assumptions, and to respond to and appreciate values.
c. To develop further writing skills.
d. To learn to manipulate symbols (i.e. words, sounds, images, body movements) in a variety of ways and to employ these symbols critically, affectively, and evaluatively.
e. To develop abilities to participate as an enlightened observer or as an artist in a discipline within the visual, spatial, musical, theatrical, rhetorical, or written arts.

Requirement:

a. Bachelor of Arts students:

1. Part I: Literature or Philosophical Perspectives. A two-semester course package in either literature or a philosophical perspective. Writing Emphasis Courses

2. Part II: Arts, Literature or Philosophical Perspectives. Either one course in the study of practical, theoretical, or philosophic literature if a philosophical perspectives if a literature package is chosen for Part I. Writing Emphasis Courses, except for hands-on practice of the arts courses.

b. Bachelor of Science students must complete a minimum of 6 credits from the courses listed below and not more than 3 credits may be taken in the Arts.

1. The following course packages are designated literature packages:

- Asian Studies 311-312 Chinese Literature in English Translation.
- 313-314 Japanese Literature in English Translation.
- Classics 253-254 Greek and Roman Literature in English Translation.
- Comparative Literature 202-203 Cross-cultural Perspectives in World Literature.
- English 201 British Literature I: Beowulf through Johnson; 202 British Literature II: Wordsworth to the Present; 221 Literature of the Western World I: Ancient, Medieval and Renaissance; 222 Literature of the Western World II: Enlightenment, Romantic and Modern.

(19 of three) 231 American Literature I: Colonial Era to the Civil War; 232 American Literature II: Civil War to the Present; 233 Major Black Writers.

2. (two of three) 251 Introduction to Poetry; 252 Introduction to Drama; 253 Introduction to Fiction.

French 291-292 French Literature in English Translation.

German 221-222 German Literature in English Translation.

Modern European Studies 261 Medieval Culture: Readings from the Early Middle Ages, 500-1000; 262 Medieval Culture: Readings from the Later Middle Ages, 1000-1500.


Russian 221-222 Russian Literature in English Translation.

Spanish 291 Spanish Literature in English Translation; 292 Spanish American Literature in English Translation.

2. The following course packages are designated philosophical perspectives packages:

Classics 221 Early Greek Mythology; 222 Classical Greek and Roman Mythology.

Philosophy 110 The Human Condition: Value and Reality; 111 The Human Condition: Knowledge and Reality.

120 Foundations of Western Thought: Antiquity through 1500; 121 Foundations of Western Thought: 1500 through Early Twentieth Century.

240 Ethics; 344 Professional Responsibility (Same as Religious Studies 344).

380 The Concept of Woman; 382 Philosophy of Feminism.

Religious Studies 101 World Religions in History; 102 The Comparison of World Religions.

211 Ways of Understanding Religion; 212 Criticism of Religion.


Women's Studies 380 The Concept of Woman; 382 Philosophy of Feminism.

3. The following courses are designated practice of the Arts courses:

Art 131 Introduction to Studio Art: Various Media.

English 263 Introduction to Creative Writing.


Speech Communication 280 Introduction to Oral Interpretation; 380 Oral Interpretation of Prose Literature; 385 Oral Interpretation of Poetry.

Theatre 220-221 Acting; 260 Fundamentals of Lighting and Sound Production.

4. The following courses are designated Study of the Arts courses:

Art 172 Western Art I; 173 Western Art II; 183 Asian Art.

Classics 232 Archaeology and Art of Ancient Greece; 233 Archaeology and Art of Etruria and Rome.

Music General 100 Fundamentals of Music; General 110 Music Appreciation; General 120 History of Rock.

Theatre 100 Introduction to Theatre; 210-211 Survey of World Drama.

Women's Studies 330 Women in Music. (Same as Music History 330.)

Upper Level Distribution

Bachelor of Arts students must complete a minimum of 6 credits in one of the following areas indicated below and 3 credits from one of the remaining two areas (total 9 credits for this requirement). Writing Emphasis Courses.

Bachelor of Science students must complete a minimum of 6 credits in two of the three areas indicated below (total 6 credits for this requirement). Writing Emphasis Courses.

Writing Emphasis Courses:

a. United States Studies
b. Foreign Studies
c. Capstone Experience

United States Studies

Purpose:

1. To develop an appreciation and knowledge of United States culture and civilization.
2. To provide a basis from which to compare foreign cultures and civilizations.
3. To develop a critical understanding of the sources of values and traditions that constitute contemporary United States civilization.
4. To develop an understanding of the relationship between individual and societal behavior.
5. To further develop writing skills.

The following courses are designated United States Studies courses:

- Afro-American Studies 344 Contemporary Issues in Afro-American Education (Same as Ed. C&I 364; 429 History and Philosophy of Afro-American Education (Same as Ed. C&I 429; 480 Black Communities in Urban America; 483 Afro-American Women in American Society (Same as Women's Studies 483).

- American Studies 310 Introduction to American Culture: Voices of Dissent.

- Anthropology 310 North American Indians; 312 Appalachian Culture; 315 Afro-American Anthropology (Same as Afro-American Studies 315); 360 North American Prehistory.

- Economics 331 Government and Business administration.

- English 332 Women in American Literature (Same as Women's Studies 332); 333 Black American Literature and Aesthetics; 334 Film and American Culture (Same as American Studies 334).

- Geography 361 Regional Geography of the United States and Canada; 363 Geography of the American South; 365 Geography of Appalachia; 425 Historical Geography of the United States.


- Philosophy 390 Philosophical Foundations of Democracy; 425 American Philosophy.

- Political Science 311 Contemporary Issues in American Public Policy; 312 Popular Culture and American Politics; 330 Law in American Society; 374 American Political Thought.


- Sociology 310 American Society; 340 Class Structure; 343 Race and Ethnicity (Same as Afro-American Studies 343); 455 Society and Law.

- Speech Communication 466 Rhetoric of the Women's Rights Movement.

- Theatre 312-313 History of the American Theatre.

- Women's Studies 310 Emergence of the Modern American Woman; 434 Psychology of Gender (Same as Psychology 434); 453 Women in American History; 466 Rhetoric of the Women's Rights Movement (Same as Speech Communication 466).

Foreign Studies

Purpose:

a. To develop an appreciation and knowledge of a foreign culture and civilization.

b. To provide a basis from which a student can analyze her or his own culture.

c. To develop a critical understanding of the sources of values and traditions that constitute a foreign culture and civilization.

d. To develop an understanding of the relationship between individual and societal behavior in a highly interdependent world system.

e. To further develop writing skills.

The following courses are designated Foreign Studies courses: NOTE: If Western Civilization is taken to satisfy the non United States History requirement under Divisional Distribution, the European concentration may not be elected here. This option may also be satisfied by literature courses in Arabic, Chinese, French, German, Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Sanskrit, or Spanish. (Literature courses in English translation will not meet this requirement.)

Africa


- Anthropology 314 Peoples and Cultures of Africa (Same as Afro-American Studies 314); 461 African Prehistory (Same as Afro-American Studies 461).

- Geography 379 Geography of Africa (Same as Afro-American Studies 379).

- Political Science 452 Black African Politics (Same as Afro-American 452).

- Religious Studies 373 African Religions (Same as Afro-American Studies 373 and Anthropology 373).

Asia

- Art 385 Chinese Art; 386 Japanese Art; 486 Art of Indian Asia.

- Economics 424 Political Economy of World Development (when topic is Asian).

- History 362-363 History of East Asia.

- Political Science 454 Government and Politics of China and Japan.

- Religious Studies 374 Philosophy and Religion in India (Same as Philosophy 374); 376 Buddhist Philosophy and Religion (Same as Philosophy 376); 379 Religion and Philosophy in China (Same as Philosophy 379).

- The following courses are designated:

Europe and the Soviet Union

- Anthropology 462 Early European Prehistory.

- Classics 331 Archaeology of the Aegean Bronze Age and Early Greece; 334 Cities and Sanctuaries of the Ancient Greek World; 381 Greek Civilization; 382 Roman Civilization.

- Economics 325 Economic History of the North Atlantic Community.

- English 301 British Culture to 1600; 302 British Culture: 1600 to Present; 401 Medieval Literature.

- French 420 French Cinema; 431 Highlights of French Civilization; 432 Contemporary French Culture.

- Geography 375 Geography of the Soviet Union.

- German 363 Modern German Culture; History 319 Modern Europe, 1750-1914; 320 Contemporary Europe, 1900-present.

- Medieval Studies 430 Seminar in Medieval Studies.

- Philosophy 320 Ancient Western Philosophy; 322 Medieval Philosophy; 324 Seventeenth- and Eighteenth-Century Philosophy; 326 Nineteenth- and Twentieth-Century Philosophy.

- Political Science 361 Politics in Western
Democracies; 459 Government and Politics of the Soviet Union; 469 Soviet Foreign Policy.  

Russian 371-372 Background and Main Currents of Russian Culture.  

Russian and East European Studies 410 Selected Topics in Russian and East European Studies.  

Spanish 431 Spanish Civilization.  

Women's Studies 324 Women in French Culture (Same as French 324); 383 Women in the Greek and Roman World (Same as Classics 383); 452 Women in European History (Same as History 452).  

Latin America  

Anthropology 313 Peoples and Cultures of Mesoamerica (Same as Latin American Studies 313).  

Economics 424 Political Economy of World Development (when topic is Latin American).  

Geography 372 Geography of Middle America (Same as Latin American Studies 372); 373 Geography of South America (Same as Latin American Studies 373).  

History 360-361 History of Latin America (Same as Latin American Studies 360-361). Latin American Studies 401 Cultural Plurality and Institutional Changes in Latin America.  

Political Science 355 Latin American Government and Politics I (Same as Latin American Studies 355); 455 Latin American Government and Politics II (Same as Latin American Studies 455).  

Spanish 471 Latin American Civilization (Same as Latin American Studies 471).  

Middle East  

Anthropology 463 Rise of Complex Civilizations.  

History 369-370 History of the Middle East.  

Religious Studies 311 Ancient Hebraic Religious Traditions; 332 Islam.  

Critical Issues in Foreign Studies  

Economics 323 Economic Development (Third World); 324 Comparative Economic Systems.  

History 374 The West and the Third World Since 1540; 375 Revolutions in Historical Perspective.  

Political Science 350 Political Change in Developing Areas; 365 Introduction to International Relations.  

Religious Studies 371 Eastern Religions and Western Thought.  

Sociology 466 The Modern World System.  

c. Capstone Experience  

Purpose:  

a. To offer an intensive integrative experience which will substantially broaden the student's comprehension of the major.  

b. To increase significantly an understanding of the ways in which the ideas, methods, and achievements in a major area of study have affected modern society.  

c. To examine a major field of study from a value-oriented perspective.  

d. To enhance student's mastery of prose communication within the professional context of their major.  

(1) 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 distribution requirements where listed. A minimum grade of C must be earned in every 400-level course as part of a major. Students transferring from other institutions must complete at least 9 credit hours at UTK 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 B.A. or B.B. include: Anthropology, Art, Art History, Audiology, Biochemistry, Botany, Botany, Chemistry, Classics, Computer Science, Cultural Studies, Economics, English, French, Geography, Geology, German, History, Human Services, Italian, Mathematics, Microbiology, Music, Philosophy, Physics, Political Science, Psychology, Religious Studies, Russian, Sociology, Spanish, Speech and Theatre, Statistics, and Zoology.  

(2) 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 Liberal Arts may also major inside the College of Liberal Arts with the approval of the degree granting unit. These students need complete only the major requirements in the Basic Skills or Distribution requirements for Liberal Arts degrees. The Liberal Arts major may also be listed on the student's transcript.  

(3) 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 Liberal Arts may also minor inside the College of Liberal Arts 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 Portuguese. Minors may be developed in other colleges or schools of the University, but must be approved by the department head in which the minor is proposed and by the Associate Dean for Student Academic Affairs in Liberal Arts. At least 6 of the 15 credit hours required for a minor must be completed at The University of Tennessee, Knoxville.  

Business Minor for Non-Business Students: Requirements include the following courses: Accounting 201-202, Economics 201, Statistics 201, and 12 hours of upper-division Business electives at UTK. No more than 3 upper-division hours of Accounting, Economics, or Statistics may be used for the minor. Students are responsible for meeting all prerequisites for upper-division courses taken in a particular concentration.  

(4) 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 interests to supplement and support the work being done by the major. Basic Skills and Distribution requirement. This dimension of the student's experience in 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 courses which the student might make in selecting the elective courses are: (1) Additional courses in the major field; (2) A related minor; (3) An area in the arts; (4) An off-campus study semester.  

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

Individualized Program  

The Basic Program described above will meet the educational needs of most the 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 greatest degree of individualization takes place, however, is in the area of concentration. Although 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), there is no restriction in principle on the choice of courses of which it is composed. 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. For further information contact the Liberal Arts Advising Center.

College Scholars Program

A limited number of freshmen, 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 (tutor) 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 minor officially recognized.

Further information and applications may be obtained from the Liberal Arts Advising Center.

Pre-Dental Program

The college offers both a three-year program leading to a Bachelor of Arts 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 B. A. degree is granted upon satisfactory completion of the first year of study at UT-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-Memphis. Students in either the three- or four-year program must complete the last 31 hours of credit in residence at The University of Tennessee, Knoxville, before entering UT-Memphis.

Although the B. A. or B. S. 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 B. A. or B. S. degree before enrolling in the College of Dentistry.

Pre-Medical Program

The college offers a three-year program leading to a B. A. degree and a four-year program leading to a Bachelor of 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 B. A. degree is granted upon satisfactory completion of the first year of study at UT-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-Memphis. Students in either the three- or four-year program must complete the last 31 hours of credit in residence at UTK before entering UT-Memphis.

Although the B. A./B. S. 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.

<table>
<thead>
<tr>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
</tr>
<tr>
<td>English 101, 102 or equivalent ..................................</td>
</tr>
<tr>
<td>Biology 110-120 or Zoology 117-127 ..............................</td>
</tr>
<tr>
<td>Chemistry 120-130 ................................................</td>
</tr>
<tr>
<td>Mathematics ............................</td>
</tr>
<tr>
<td>Sophomore</td>
</tr>
<tr>
<td>Chemistry 350, 360, 369 ...........................................</td>
</tr>
<tr>
<td>Physics 221, 222 ..................................................</td>
</tr>
<tr>
<td>Divisional Distribution Humanities (D) Part I ..................</td>
</tr>
<tr>
<td>Divisional Distribution (A) Non U.S. History .................</td>
</tr>
<tr>
<td>Electives .........................................................</td>
</tr>
<tr>
<td>Basic Skills (b) Foreign Language (Intermediate Level Sequence)</td>
</tr>
<tr>
<td>Juniort</td>
</tr>
<tr>
<td>Divisional Distribution Social Sciences .......................</td>
</tr>
<tr>
<td>Upper Level Distribution (A) U.S. Studies (B) ..................</td>
</tr>
<tr>
<td>Foreign Studies or (C) Capstone Experience ....................</td>
</tr>
<tr>
<td>Electives .........................................................</td>
</tr>
<tr>
<td>Total: 89-105 hours</td>
</tr>
<tr>
<td>Senior</td>
</tr>
<tr>
<td>Completion of major program and B. A./B. S. requirements or completion of one year at UT-Memphis.</td>
</tr>
<tr>
<td>Total: 124 Minimum hours</td>
</tr>
</tbody>
</table>

1Or equivalent honors courses.
2Any student who has had two years of Biology or one very good year in high school should take the proficiency tests for Biology 110-120 to determine eligibility for going directly into Biology 210 or 220. Chemistry 120-130 is a prerequisite to Biology 210-220.
3Math placement depends on high school courses and grades, ACT scores, and BA/BS requirements. A math placement handout is available in the Liberal Arts Advising Center, 220 Ayres Hall. Mathematics 141-142, 121-122 or 151-152 are prerequisites to Physics. All students must complete the Math Basic Skills requirements as outlined in the Liberal Arts curriculum.
4This requirement assumes a student has had enough language background in high school to begin an intermediate language sequence at UT-Memphis. Some students preparing for 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.
5 Recommended courses in biology and zoology are genetics, cell biology, and comparative vertebrate anatomy.

<table>
<thead>
<tr>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
</tr>
<tr>
<td>English 101, 102 or equivalent ..................................</td>
</tr>
<tr>
<td>Biology 110-120 or Zoology 117-127 ..............................</td>
</tr>
<tr>
<td>Chemistry 120-130 ................................................</td>
</tr>
<tr>
<td>Mathematics ............................</td>
</tr>
<tr>
<td>Sophomore</td>
</tr>
<tr>
<td>Chemistry 350, 360, 369 ...........................................</td>
</tr>
<tr>
<td>Physics 221, 222 ..................................................</td>
</tr>
<tr>
<td>Divisional Distribution (D) Humanities Part I ..................</td>
</tr>
<tr>
<td>Divisional Distribution (A) Non U.S. History .................</td>
</tr>
<tr>
<td>Electives .........................................................</td>
</tr>
<tr>
<td>Basic Skills (B) Foreign Language (Intermediate Level Sequence)</td>
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<tr>
<td>Juniort</td>
</tr>
<tr>
<td>Divisional Distribution (C) Social Sciences ....................</td>
</tr>
<tr>
<td>Upper Level Distribution (A) U.S. Studies (B) ..................</td>
</tr>
<tr>
<td>Foreign Studies or (C) Capstone Experience ....................</td>
</tr>
<tr>
<td>Electives .........................................................</td>
</tr>
<tr>
<td>Total: 89-105 hours</td>
</tr>
<tr>
<td>Senior</td>
</tr>
<tr>
<td>Completion of major program and B. A./B. S. requirements or completion of one year at UT-Memphis.</td>
</tr>
<tr>
<td>Total: 124 Minimum hours</td>
</tr>
</tbody>
</table>

1Or equivalent honors courses.
2Math placement depends on high school courses and grades. ACT scores, and BA/BS requirements. A math placement handout is available in the Liberal Arts Advising Center, 220 Ayres Hall.
Mathematics 141-142, 121-122 or 151-152 are prerequisites to Physics. All students must complete the Math Basic Skills requirement as outlined in the Liberal Arts curriculum.

3This requirement assumes a student has had enough language background in high school to begin an intermediate language sequence at UT.

4Math placement depends on high school courses and grades, ACT scores, and BA/BS requirements.

5Or equivalent honors courses.

Pre-Veterinary Medicine Program

The College of Veterinary Medicine at The University of Tennessee, Knoxville, as well as to the University of Tennessee, Memphis, prepares students for the study of veterinary medicine. The three pre-pharmacy programs in detail may be obtained from the Health Professions Office, 220 Ayres Hall.

Recommended electives include courses in computer science, business administration, particularly accounting, economics, and marketing.

Pre-Veterinary Medicine Program

The following program is designed for students who wish to pursue a Bachelor of Arts 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 Liberal Arts, must satisfy the Basic Skills and Distribution requirements, and must complete the last 31 hours in residence at UT before entering 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 Arts degree will be conferred by the College of Liberal Arts.

Pre-Veterinary Medicine Program

The following program is designed for students who wish to pursue a Bachelor of Arts 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 Liberal Arts, must satisfy the Basic Skills and Distribution requirements, and must complete the last 31 hours in residence at UT before entering 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 Arts degree will be conferred by the College of Liberal Arts.

Pre-Veterinary Medicine Program

The following program is designed for students who wish to pursue a Bachelor of Arts 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 Liberal Arts, must satisfy the Basic Skills and Distribution requirements, and must complete the last 31 hours in residence at UT before entering 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 Arts degree will be conferred by the College of Liberal Arts.

Pre-Veterinary Medicine Program
admission to and successful completion of this program does not assure admission to the College of Veterinary Medicine.

### Hours Credit

<table>
<thead>
<tr>
<th>Freshman</th>
</tr>
</thead>
<tbody>
<tr>
<td>1English 101-102</td>
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<tr>
<td>1Chemistry 121-120</td>
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<tr>
<td>1Biology 110-120 or Zoology 117-127</td>
</tr>
<tr>
<td>2Basic Skills (B) Foreign Language (Intermediate Level Sequence)</td>
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<tr>
<td>2Mathematics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sophomore</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 210, 220</td>
</tr>
<tr>
<td>Chemistry 359, 369, 369</td>
</tr>
<tr>
<td>Physics 221-222</td>
</tr>
<tr>
<td>Divisional Distribution (A) Non U.S. History</td>
</tr>
<tr>
<td>*Divisional Distribution (C) Social Sciences</td>
</tr>
</tbody>
</table>

**Junior**

| Biochemistry 410 | 4 |
| *Divisional Distribution (C) Social Science | 3-6 |
| *Divisional Distribution (D) Humanities Part I and II | 6-9 |
| *Upper Level Distribution (A) U.S. Studies (B) | 6-9 |
| Foreign Studies or (C) Capstone Experience | 6-9 |
| Electives | 9 |

**Senior**

Completion of major program and B. A./B.S. requirements or completion of one year at UT College of Veterinary Medicine.

**Total:** 124 Minimum hours

### Preparation for Other Professions

#### LIBRARY SCIENCE

Certain courses in the Graduate School of Library and Information Science are open to students in the College of Liberal Arts interested in beginning positions in a library or in preparation for future graduate study in professional librarianship. For further information, consult the Director of the Graduate School of Library and Information Science.

#### PLANNING

Students who wish to consider a career in city and regional planning or a related field will find a brief description of the program of the Graduate School of Planning on page 126. Students are accepted into planning from a broad variety of undergraduate backgrounds. Detailed information on the planning profession, admission requirements, and the program of study may be obtained from the Graduate School of Planning.

#### TEACHING

Students in the College of Liberal Arts who wish to be certified for secondary school teaching must satisfy state certification requirements as well as all degree requirements of the College of Liberal Arts and must be recommended for certification by the College of Education. The College of Education is approved by the National Council for Accreditation of Teaching Education (NCATE); recommendation for certification by the college, therefore, in effect certifies the student in 30 states.

For additional information contact Teacher Certification Office, Room 212 Claxton Education Building.

### Course Load

The average course load in the college for any semester is 15-16 credit hours. The University defines full-time undergraduate students as those who register for a minimum of 12 hours. The maximum number of hours which may be taken by liberal arts students is 18, exclusive of elective work in ensemble music and physical education. Exceptions to this rule will require approval by the Associate Dean for Student Academic Affairs (220 Ayres).

#### Lower Division - Upper Division

Courses numbered at the 100 and 200 levels are considered lower division and are normally taken by students in the freshman and sophomore years. Courses numbered 300 and above are upper division and are designed for students at the junior and senior levels.

#### 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 included 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:

1. 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.

2. 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.

3. A student who desires to take a course S/NC should indicate that intention at the time of registration. A change from S/NC grading to regular grading or from regular grading to S/NC will not be permitted beyond the add deadline in each semester. (Exception: Students who register for a course S/NC in a restricted area will be required to change to regular grading when the error is discovered.)

4. A transfer student who has more than 20 S/NC or equivalent hours earned prior to admission to The University of Tennessee, Knoxville, may count all of these hours toward graduation but may not elect additional S/NC hours.

5. 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) 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 that 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 advisor possible limitations on exercise of the S/NC option before registering for courses on this basis.

#### Off-Campus Study

Recognizing that learning is not restricted to formal classroom situations, the college provides for students to earn credit toward graduation for approved off-campus study. Such study may be undertaken only with prior approval of the faculty member and the department concerned. It may include certain kinds of work experiences, community involvements, working in political campaigns, etc. Credit per semester will vary from 1-15 hours. Up to 21 hours of credit earned in this way may be applied toward a degree in the college, although the college may limit the number of hours which may be applied toward a specific major.

#### Independent Study

Certain educational goals may best be met through independent study done by an individual under the direction of a faculty member. Students who wish to do such independent work should obtain the approval of the faculty members and the departments concerned prior to embarking upon their study. Credit per semester will vary from 1-15 hours. Up to 21 hours of credit earned in this way may be applied toward a degree in the college, although individual departments may limit the number of hours which may be applied toward a specific major.
Study Abroad and Foreign Study Courses

Several opportunities for study abroad are available to students in the college. One avenue is through group programs arranged and supervised by departments of the college on a full-semester or summer term basis. A second is through group programs conducted abroad by other academic institutions in which UTK students with approval may enroll for credit. Assistance in identification of and registration in such programs may be obtained through the Overseas Study Information Service located in the University's Division of International Education. A third opportunity is through individualized programs under the foreign study number 491. The nature of this work as well as credit for it should be negotiated by students prior to departure with the appropriate liberal arts departments. Credit will be awarded only after completion of all agreed upon requirements, and may vary from 1-15 hours in any one department. Up to 21 hours of such credit, exclusive of that earned in group programs offered by departments, could apply toward a degree in the college. Departments may in any of the above forms, however, limit the hours of credit which can be applied toward a given major.

Afro-American Studies

See Cultural Studies.

American Studies

See Cultural Studies.

Ancient Mediterranean Civilizations

See Cultural Studies.

Anthropology

Professors:
W. M. Bass (Head and Alumni Distinguished Service Professor), Ph. D. Pennsylvania; C. H. Faulkner, Ph. D. Indiana; R. L. Jantz, Ph. D. Kansas; P. W. Parmalee, Ph. D. Texas; A&M; F. H. Smith, Ph. D. Michigan; M. C. Wheeler, Ph. D. Yale.

Associate Professors:

Assistant Professors:
M. A. Bass, Ph. D. Kansas State (part-time);
B. J. Howell, Ph. D. Kentucky; J. F. Simak, Ph. D. SUNY-Binghamton; P. S. Willey, Ph. D. Tennessee.

Research Assistant Professors:
J. Chapman, Ph. D. North Carolina; M. Smith, Ph. D. Tennessee; S. Tardiff, Ph. D. Michigan State.

Anthropology 110, 120, and 130 are prerequisites to a B. A. major in anthropology, which consists of Anthropology 450 and 27 additional hours of upper division course work in Anthropology. This course work shall be distributed as follows:

(1) one course from categories (a), (b), (c), and (d); and two courses from category (e).
(a) archaeological method and theory: 361, 362, 440, 464
(b) archaeological area: 380, 461, 462, 463
(c) cultural area: 310, 311, 312, 313, 314, 315
diag (cultural area and theory): 410, 411, 412, 413
(e) biological anthropology: 480, 490, 494, 495, 496

(2) 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 (1) or (2) above.

Anthropology 110, 120, 130 are prerequisites to a minor in anthropology, which consists of 15 hours of upper division Anthropology courses, chosen in consultation with an Anthropology advisor.

Art

Professors:

Associate Professors:

Assistant Professors:
B. Lyons, M. F. A. Arizona State; D. Wilson, M. F. A. California (San Diego); B. F. A. in Studio Art

The B. F. A. is Studio Art is a profession-oriented degree especially intended for those students planning careers or graduate study in the visual arts. Majors must pass a portfolio review, usually at the end of the sophomore year in order to be admitted into upper division courses and concentrations. All studio courses require 3 hours per week attendance for each credit hour earned. Completing the B. F. A. program may take more than 6 semesters. Students are urged to seek departmental advisement each semester to ensure proper scheduling.

Transfer students are advised that a minimum of 111 hours in studio courses and as upper division hours in art history must be earned at UTK. No grade below "C" in art courses may be applied to the B. F. A. major. A minimum of 40 credit hours, 300 level or above, may be applied to the B. F. A. major. Students may be accepted into advanced media concentrations in Ceramics, Drawing, Painting, Printmaking, Sculpture, Watercolor, and approved Inter-Area combinations, after passing the appropriate portfolio course.

Basic Requirements

<table>
<thead>
<tr>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
</tr>
<tr>
<td>Art History 171, 172, 173</td>
</tr>
<tr>
<td>Additional hours</td>
</tr>
<tr>
<td>Studio 101, 102, 103</td>
</tr>
<tr>
<td>Studio 192</td>
</tr>
<tr>
<td>Studio 211 Drawing I; 213 Painting I (or Watercolor I)</td>
</tr>
<tr>
<td>Sculpture (241 or 244 or 246)</td>
</tr>
<tr>
<td>Printmaking (161 or 262 or 263 or 264)</td>
</tr>
<tr>
<td>9 hours from the following: Fiber-Fabric (201 or 202 or 203 or 204)</td>
</tr>
<tr>
<td>242 Life Modeling; 106 Metal Design, 231 Photography, 265 Film Design, 254 Ceramics</td>
</tr>
<tr>
<td>Total: 48 hours</td>
</tr>
</tbody>
</table>

Concentration - Ceramics: Drawing; Painting; Sculpture; Watercolor; Inter-Area (approved combinations of studio media).

| 200 level |
| 3 |
| Portfolio Review (Pre-requisite to 300 and 400 courses) |
| 0 |

| 300 and 400 level |
| 20 |

*Approved Studio Elections for Concentration |
| 9 |

Total: 32 hours

Studio Electives

Additional hours in studio course electives to be completed in the Art Department of the 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, Broadcast Journalism, Computer Science, Vocational Technical Education, Interior Design or Theatre. Students electing a joint Art/Art Education degree (B. F. A./B. S.) may take 12 hours in Art Education courses.

Total: 12 hours

General Curriculum

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

Total: 34 hours

*Approved Concentration Electives (Maximum credit hours in parenthesis): Ceramics: Art 212 (6), Art 231 (3), Art 242 (3), Art 282 (3), Art 341 (3), Art 342 (3), Art 420 (4), Art 429 (4). Drawing: Art 213 or Art 215 not taken as part of core requirement (3), Art 214 (3), Art 216 (3), Art 219/419 (6), Art 231 (3),
Art 262 (3), Art 263 (3). Painting: Art 212 (3), Art 215 not as part of core requirement (3), Art 305 (3), Art 306 - Color Drawing (3), Art 219

B. F. A. in Studio Art and B. S. in Art Education - Joint Degree Program

Students who wish to obtain certification to teach art in the schools may pursue the joint B. F. A. in Studio Art/B. S. in Art Education degree. For details see the Art Education listings in the College of Education section of this catalog.

B. F. A. in Graphic Design/Illustration

The Graphic Design/Illustration major is specifically designed to provide the basic visual education for those persons who wish to pursue careers in the commercial application of art in fields such as advertising, art direction, package design, publications, and television. A minimum of 126 credit hours are required for graduation. Two options are available: Graphic Design or Illustration. Students are advised that courses in Graphic Design/Illustration must be taken in sequence, and that successful completion of Art 350 (Portfolio Review, S/NC) is prerequisite to all upper division courses.

GRAPHIC DESIGN CONCENTRATION

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Core</td>
<td></td>
</tr>
<tr>
<td>Art 171, 172, 173.</td>
<td>9</td>
</tr>
<tr>
<td>Art History electives</td>
<td>6</td>
</tr>
<tr>
<td>Art 101, 102, 103</td>
<td>6</td>
</tr>
<tr>
<td>Art 192, 211, 213 (or 215)</td>
<td>9</td>
</tr>
<tr>
<td>Graphic Design</td>
<td></td>
</tr>
<tr>
<td>Art 200.</td>
<td>0</td>
</tr>
<tr>
<td>Art 212, 3 hours drawing electives</td>
<td>6</td>
</tr>
<tr>
<td>Art 231.</td>
<td>3</td>
</tr>
<tr>
<td>Art 151, 251, 252, 351, 451, 452, 455 in sequence</td>
<td>23</td>
</tr>
<tr>
<td>Art 356.</td>
<td>1</td>
</tr>
<tr>
<td>Art 456.</td>
<td>12</td>
</tr>
<tr>
<td>Studio Electives</td>
<td></td>
</tr>
<tr>
<td>Art 259, 331, 355, 396, 404, 405, 459, 491, 492, 499.</td>
<td>6</td>
</tr>
<tr>
<td>Professional Electives</td>
<td></td>
</tr>
<tr>
<td>Advertising 250, 356; Broadcasting 330; Marketing 301.</td>
<td>6</td>
</tr>
<tr>
<td>General Curriculum</td>
<td></td>
</tr>
<tr>
<td>English Composition</td>
<td>6</td>
</tr>
<tr>
<td>Non U.S. History/Social Science</td>
<td>6</td>
</tr>
<tr>
<td>Natural Science/Mathematics</td>
<td>6-8</td>
</tr>
<tr>
<td>Liberal Arts Non-Art Electives</td>
<td>13-15</td>
</tr>
<tr>
<td>Total: 30 hours credit</td>
<td></td>
</tr>
<tr>
<td>Total: 30 hours credit</td>
<td></td>
</tr>
</tbody>
</table>

ILLUSTRATION CONCENTRATION

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Core</td>
<td></td>
</tr>
<tr>
<td>Art 171, 172, 173.</td>
<td>9</td>
</tr>
<tr>
<td>Art History electives</td>
<td>6</td>
</tr>
<tr>
<td>Art 101, 102, 103</td>
<td>6</td>
</tr>
<tr>
<td>Art 192, 211, 213 (or 215)</td>
<td>9</td>
</tr>
<tr>
<td>Illustration</td>
<td></td>
</tr>
<tr>
<td>Art 350.</td>
<td>0</td>
</tr>
<tr>
<td>Art 212, 9 hours drawing electives</td>
<td>12</td>
</tr>
<tr>
<td>Art 231.</td>
<td>3</td>
</tr>
<tr>
<td>Art 151, 251, 252, 351, 451, 452, 455 in sequence</td>
<td>16</td>
</tr>
<tr>
<td>Art 356.</td>
<td>1</td>
</tr>
<tr>
<td>Art 353, 354, 453, 454 in sequence</td>
<td>12</td>
</tr>
<tr>
<td>Total: 44 hours credit</td>
<td></td>
</tr>
<tr>
<td>Total: 126 hours credit</td>
<td></td>
</tr>
</tbody>
</table>

Students must choose a minimum of 9 hours from two of the areas: Fiber-Fabric, Painting, Printmaking. Students are advised that courses in Graphic Design/Illustration must be taken in sequence, and that successful completion of Art 350 (Portfolio Review, S/NC) is prerequisite to all upper division courses.

In addition to the general B. A. requirements, the following are required for B. A. majors:

B. A. Majors in Art History

| Prerequisite: Art 172, 173, 183. | 9           |
| Art History courses numbered 200 and above (May include Greek and Roman Art and Archeology, Department of Classics). | 21          |
| Studio courses numbered 200 and above | 6           |
| Art 481. | 3           |
| Total: 39 hours credit |              |

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.

B. A. Major in Studio

| Prerequisite: Art 101, 102, 103. | 6           |
| Art 171 and 6 additional hours of Art History. | 9           |
| Studio courses numbered 200 and above. including a minimum of 15 hours in 300-400 level courses. | 24          |
| Total: 39 hours credit |              |

In addition to the general B. A. requirements, the following are required for minors:

B. A. Minor in Art History

| Prerequisite: Art 172, 173 | 6           |
| Minor: Art History courses 200 and above | 15          |
| Total: 21 hours credit |              |

B. A. Minor in Studio

| Prerequisite: Art 101, 102, 103. | 6           |
| Fundamentals |              |
| Art 171, 172, 173. | 6           |
| Minor: Studio courses which include a minimum of 8 additional upper-division hours. Concentration may be Ceramics, Drawing, Fiber-Fabric, Painting-Watercolor, Printmaking, Sculpture or a combination from these areas. | 15          |
| Total: 27 hours credit |              |

PI BETA PHI ARROWMONT SCHOOL OF ARTS AND CRAFTS

Director:
S. J. Blain, M. F. A. Wisconsin.

Arrowmont, located 40 miles from the UTK campus, is a visual arts complex which functions as a regional and national cultural center. In 1954, Pi Beta Phi Fraternity established an affiliation with The University of Tennessee, and with the Department of Art in 1978. The program currently includes spring and summer one and two week media workshops, special weekend conferences, and community classes. Media offerings include: clay, fiber, fabric, metal, wood, stained glass, leather, papermaking, drawing, painting, graphics and photography. Students may receive audit, undergraduate or graduate credit for spring and summer classes through The University of Tennessee, Department of Art. Facilities include well equipped studios, on campus book and supply store, a large auditorium, art library, and resident accommodations. The Arrowmont Gallery presents changing juried, invitational, theme or media oriented exhibitions. The Gallery and Library are open to the public Monday-Saturday, 8:30 a.m. - 5:30 p.m. Arrowmont receives financial support from chapters of the Pi Beta Phi Fraternity, alumnae clubs, and individual members.

Courses are offered periodically at the Pi Beta Phi Arrowmont School of Arts and Crafts, Gatlinburg, Tennessee. Content varies with faculty. Students should check specific course content as printed in the Arrowmont timetable published each spring.

Asian Studies

See Cultural Studies.
Audiology and Speech Pathology

Professors:

P. T. Carney (Head), Ph. D. Iowa; S. Adler, Ph. D. Ohio State; C. W. Asp, Ph. D. Ohio State; D. M. Lipscomb (Adjunct), Ph. D. Washington; H. L. Luper, Ph. D. Ohio State; I. V. Nabelek, Ph. D. Czech Technical (Prague); H. A. Peterson, Ph. D. Illinois; B. Silverstein, Ph. D. Purdue.

Associate Professors:

S. B. Burchfield, Ph. D. Michigan State; A. D. Dietendorf, Ph. D. Washington; C. J. Ferrell, M. A. Tennessee; E. I. Hamby, Ph. D. Iowa.

Assistant Professor:

D. Arthur, M. A. Tennessee.

Instructors:

J. Hester, M. A. Florida; D. King, M. A. Tennessee; T. R. Singletary, M. S. Colorado State.

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 home aspect of speech, language and hearing disorders. The master’s degree is required for most professional certificates and employment positions. Information about the audiology and speech pathology programs may be obtained from the department office, 457 South Stadium Hall, and students are strongly encouraged to consult with the undergraduate advisors in the department as early as possible in their programs. Suggested elective courses for students not majoring in Audiology and Speech Pathology include 304, 305, 320, 331, 371, 465 and 473.

A B. A. major in speech pathology consists of Audiology and Speech Pathology 304, 305, 306, 320, 331, 371, 404, 433, 465, 473 plus not fewer than 6 nor more than 9 hours from the following: 431, 434, 440, 461, 494.

A B. A. major in audiology consists of Audiology and Speech Pathology 304, 305, 306, 320, 331, 371, 404, 433, 445, 461, 473, and 494 plus not fewer than 3 nor more than 6 hours from the following: 434, 465.

Additional recommended courses for audiology and speech pathology majors include appropriate coursework from: Anthropology, Biology, Curriculum and Instruction, Educational Psychology, Psychology, Physics, Special Education and Child and Family Studies. Students majoring in Audiology and Speech Pathology are strongly encouraged to consult frequently with their advisors before selecting additional recommended courses.

Biochemistry

Professors:

W. D. Wicks, Ph. D. Harvard (Head); J. E. Churchich, Ph. D. Sheffield (England); L. Huang, (Chancellor’s Research Scholar), Ph. D. Michigan State; J. G. Joshi, Ph. D. Poona (India); K. J. Monty, Ph. D. Rochester.

Associate Professors:

J. Koontz, Ph. D. Kentuck.

Assistant Professors:

F. Fairfield, Ph. D. Stony Brook; D. Roberts, Ph. D. California (Davis); E. Howell, Ph. D. Lehigh.

A B. S. major in Biochemistry consists of Biology 210-220, Chemistry 350-360-389, Physics 221-222, Biochemistry 410, 419, 420, 430, 440, 445, and 3 hours chosen from: Biochemistry 425; Botany 321; Microbiology 310, 319, 410, 430, 439, Zoology 330, 350, 410, 430, 439, 440. Prerequisites to this major are Biology 110-120 (or 150), Chemistry 120, 130, Mathematics 141, 142 and either Mathematics 143, 144 or Computer Science 101.

For a minor in Biochemistry, the following courses are required: Chemistry 350, 360, 369, Biochemistry 410, 419 plus a course for additional credit from Biochemistry 420, 430, 440, and 452.

Bacteriology

See Microbiology.

Botany

Professors:


A B. S. major in Biology may be obtained by completing one of three concentrations: Cell Biology, Organismal and Systems Biology, or Ecology. Prerequisites for all three concentrations are Biology 150 or 110-120, or Botany 110-120 or 119-128, or Zoology 117-118, and Chemistry 120-130. Corequisites are Mathematics 151-152 or 141-142 and Physics 221-222 or equivalent.

Concentration in Cell Biology consists of Biology 210, 220, 230, Chemistry 350, 360, 369, Biochemistry 410, either Chemistry 310-319 or Biochemistry 419, and 12 hours of upper division courses. Upper division courses must be selected from Biochemistry 410, 420, 430, 440, 452, Botany 310-320, 321, 412, 441, 451; Microbiology 310-319, 400, 410, 419, 430-439, 440-449; Zoology 330-331, 350, 360, 400, 403, 404, 410, 420, 440, 445, 449, 460, 465, 490. Not more than 8 hours may be selected from one department. No more than 3 credits of research courses may be counted toward the major.

Concentration in Organismal and Systems Biology consists of Biology 210, 220, 230, Chemistry 350, 360, and 18 hours of upper division courses selected from Biochemistry 310, 419, 420, 452; Botany, any 300- or 400-level courses but not more than one course from 305, 306, or 309; Microbiology, any 300- or 400-level courses. More than 12 hours may be selected from one department. No more than 3 credits of research courses may be counted toward the major.

Concentration in Ecology consists of Biology 201, 220, 230, Chemistry 350, 360, 369, either Geography 433 or 434, and 15 hours of upper division courses selected from either Botany 321 or Zoology 445, Botany 330, 346, 401, 402, 403, 403, Forest, Wildlife and Fisheries Sciences 311, 315, Geography 433, 434, Microbiology 470, 473; Wildlife and Fisheries Sciences 443, 444, 445. Zoology 450, 459, 470. At least 9 hours must be chosen from among the departments of Botany, Microbiology, and Zoology.

A Minor consists of Biology 210, 220, 230 and 8 hours of upper-division courses chosen from the list above Biochemistry 410-419. Botany, any 300- or 400-level courses; Microbiology, any 300- or 400-level courses; Zoology, any 300- or 400-level courses. (In meeting the upper-division minor requirement, no more than 6 hours may be credited from any one biological science department, and not more than 3 hours of research courses may be credited.) Prerequisites to the minor are introductory biology courses (Biology 110-120 or Botany 118-128 or Zoology 117-118) and Chemistry 120-130.
R. R. Henke, Ph. D. Miami (Ohio);
B. C. Mullin, Ph. D. North Carolina State;
E. E. Schilling, Ph. D. Indiana; O. J. Schwarz,
Ph. D. North Carolina State.

Assistant Professor:
B. E. Wofford (Curator), Ph. D. Tennessee,

K. D. McFarland, M. S. Ohio University.

**A B. S. major in Botany** may be obtained by completing one of the three concentrations: General Program, Organismal Botany, or Cellular and Molecular Botany. Prerequisites for all three concentrations are: Botany 110-120 or 118-128 (recommended), or Biology 110-120; and Chemistry 120-130. Corequisite to the General Program is one of the following sequences: Mathematics 115-121 or 141-142 or 151-152, or Physics 121-122 or Geology 101-102, or Chemistry 350-360-369. Corequisites for both of the other concentrations are: Mathematics 141-142 or 151-152; Physics 121-122 or Geology 101-102; and Chemistry 350-360-369 (Health Science 150-151 and Zoology 100 College of Liberal Arts/Chemistry majors substitute in the Organismal Concentration).

**General Program requirements** are: 2 courses from Biology 210-220-230. Botany 310, 320, 321, 330, 1 hour of 371, 1 hour from 400 or 441-442; 2 hours of additional Botany; and 3 hours of upper division non-Botany courses selected from Biochemistry, Microbiology, or Zoology. A minimum of 29 hours completes this major’s option.

**Concentration in Organismal Botany requirements** are: Biology 210, 230; Botany 321, 310, 320, 330, 1 hour of 371; 2 hours from 400 or 441-442; and 7 additional hours selected from Botany (305, 306, 309 do not meet this requirement), Biology (220 is recommended for partial fulfillment of this requirement), or upper division Biochemistry, Microbiology, Zoology. A minimum of 38 hours completes this major’s option (includes 8 hours of Organic Chemistry).

**Concentration in Cellular and Molecular Botany requirements** are: Biology 210, 220; Botany 321, 310, 320, 330, or 451, 1 hour of 371; 2 hours from 400 or 441-442; Biochemistry 410; and 3 additional hours selected from Botany (305, 306, 309 do not meet this requirement); Biology 230 is recommended for fulfilling this requirement); or upper division Biochemistry, Microbiology, Zoology. A minimum of 38 hours completes this major’s option (includes 8 hours of Organic Chemistry).

**Minor** consists of 2 courses from Biology 210, 220, 230; 1 hour of Botany 371; and 6 hours of upper-division Botany (not more than one course from 305, 306, 309) and 3 additional hours of upper-division Botany or related Biological sciences. Prerequisites to the minor is Botany 110, 120, or 118, 128 (recommended) or Biology 110, 120.

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**Chemistry**

Professors:
G. Mamantov (Head and Alumni Distinguished Service Professor), Ph. D. Louisiana State; J. E. Bloor, Ph. D. Manchester (England); N. S. Bowman

(Emertus), Ph. D. Princeton; C. A. Buehler (Emertus), Ph. D. Ohio State; W. E. Bull, Ph. D. Illinois; J. Q. Chambers, Ph. D. Kansas; J. A. Dean (Emertus), Ph. D. Michigan; J. F. Eastham, Ph. D. California (Berkeley); W. H. Fletcher (Emertus), Ph. D. Minnesota; F. A. Grimm, Ph. D. Cornell; G. A. Guichon (Distinguished Scientist, Science Alliance Center of Excellence), Ph. D. Universite de Paris (France); G. W. Kabalka, Ph. D. Purdue; D. C. Kleinfield, Ph. D. Princeton; M. H. Lietzke, Ph. D. Wisconsin; R. M. Magid, Ph. D. Yale; R. M. Pagni, Ph. D. Wisconsin; J. B. Paterson, Ph. D. California (Berkeley); G. K. Schweitzer (Alumni Distinguished Service Professor), Ph. D. Illinois, D. A. Shirley (Emertus), Ph. D. Iowa State; W. T. Smith (Emertus), Ph. D. Ohio State; W. A. Van Hook, Ph. D. Johns Hopkins; E. L. Wehry, Ph. D. Purdue; T. F. Williams (Alumni Distinguished Service Professor), Ph. D. London (England); J. H. Wood (Emertus), Ph. D. North Carolina; B. Wunderlich (Distinguished Scientist, Science Alliance Center of Excellence), Ph. D. Northwestern.

Associate Professors:
J. L. Adcock, Ph. D. Texas; S. D. Alexandratos, Ph. D. California (Berkeley); J. E. Bartmess, Ph. D. Northwestern; K. D. Cook, Ph. D. Wisconsin; J. D. Kovac, Ph. D. Yale; C. A. Lane, Ph. D. California (Berkeley); L. J. Magid, Ph. D. Tennessee; F. M. Schirmer, Ph. D. Indiana; M. J. Sepaniak, Ph. D. Iowa State; C. Woods, III, Ph. D. North Carolina State.

Assistant Professors:
C. E. Barnes, Ph. D. Stanford; C. S. Fegerle, Ph. D. Colorado; J. H. Shibata, Ph. D. Washington.Bachelor of Science in Chemistry

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. Only the latter program is approved by the Committee of Professors 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 B. S. in Chemistry program should, at the earliest opportunity, ask the Liberal Arts Advising Center for assignment of a faculty advisor in the Department of Chemistry. For further information, contact the Head of the Department of Chemistry, 575 Buehler Hall. The B. S. degree is intended primarily for students who may have career objectives in fields other than chemistry, but in fields where chemistry has direct application such as medicine, dentistry, pharmacy, business, and ecology. The B. S. in Chemistry degree is recommended for students planning a career in chemistry. However, with the proper choice of physics, mathematics, and physical chemistry courses, the regular B. S. program is also suitable for such students.

Prerequisites to the major are Chemistry 120-130 or (preferably) 121-131 or 128-138, Chemistry 140, and Mathematics 141-142 or 151-152. Corequisite to the major is Physics 221-222 or 131-231. The major consists of Chemistry 310, 319, 350-360, 365, 370-380 or 371-381, 379, and 10 hours of additional work in chemistry that includes at least one laboratory course or lecture/laboratory course; up to 6 hours of Biochemistry 410-420 or Geology 460 may be applied to the 10-hour requirement.

For students planning careers in chemis-
try, the recommended courses (from the list above) are Mathematics 141-142, Physics 131-131, and Chemistry 371-381; although not required, certain additional courses are strongly recommended for students planning to become chemists: Mathematics 241-251 and Chemistry 230, 320, 329, and 406. Because professional chemists need a reading knowledge of foreign languages, intermediate level competency should be acquired in German, French or Russian. Students who are undecided about their career goals should consult a chemistry faculty advisor at the earliest opportunity. Unlike the Bachelor of Science in Chemistry major, the Bachelor of Arts degree is not approved by the Committee on Professional Training of the American Chemical Society.

A minor in chemistry shall consist of the successful completion of 15 hours of chemistry courses numbered 200 and above including 310, 319 (4 hours) and at least one of the following sequences: 350-360, 369 (8 hours); or 370-380, 379 (8 hours); or 371-381, 379 (8 hours).

**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 one and half years of semesters and school year work. Students are required to have at least a 2.5 average. For 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.

**Placement in General Chemistry Sequences**

The sequences which meet all requirements of a year of general chemistry and which serve as prerequisite for upper-division courses are 120-130, 121-131, and 128-138. Chemistry majors are strongly encouraged to take either of the lower-level sequences. Courses 100 and 110 emphasize organic and biochemistry, and may be used as prerequisite only for 431.

It is possible to move from one sequence to another if permission for substitution is obtained. Students who find a need to complete the 120 level which has Chemistry 130 as a prerequisite, 110 may be used as a prerequisite for Chemistry 120 with approval of the Department of Chemistry. Students who present satisfactory scores on the Chemistry Advanced Placement Examination. A student who omits any courses in a sequence may receive credit for it by passing the appropriate proficiency examination.

**Chinese**

*See Cultural Studies (Asian Studies).*

**Classics**

Professors:

- H. C. Rutledge (Head), Ph.D. Ohio State
- G. C. Gesell, Ph.D. North Carolina (Chapel Hill)

Associate Professors:

- C. P. Craig, Ph.D. North Carolina (Chapel Hill)
- S. D. Martin, Ph.D. Michigan
- J. E. Shelton, Ph.D. Vanderbilt
- D. W. Tandy, Ph.D. Yale

**The B.A. major concentration in Greek**

Consists of 27 hours including 21 hours of Greek language courses numbered above 200, and including 3 hours of Classics 422 (capstone); 6 hours chosen from Classics 221-222, 331, 334, 491. The student majoring in Greek is strongly encouraged to have as background History 310 before taking the capstone course. The student concentrating in Greek is encouraged to begin or take advanced work in Latin.

There are two intermediate options in the Greek program, both of which fulfill the Liberal Arts Language requirement and prepare students for advanced work in the third and fourth years. The Classical Option is 261 followed by Upper Division. The New Testament Option in second year Greek is 261-262.

The Greek minor consists of 18 hours including 12 hours of Greek language courses numbered above 200, and 6 hours chosen from Classics 221-222, 331, 334. The student minoring in Greek is encouraged to take Classics 422 (capstone).

**The B.A. major concentration in Latin**

Consists of 27 hours including 21 hours of Latin language courses numbered above 200, and including 3 hours of Classics 422 (capstone); 6 hours chosen from Classics 221-222, 331, 334, 491. The student majoring in Latin is strongly encouraged to have as background History 310 or 311 before taking the capstone course. The student concentrating in Latin is encouraged to begin or take advanced work in Greek.

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, 331, 334. The student minoring in Latin is encouraged to take Classics 422 (capstone).
Science consists of 111 and 112 plus fifteen hours of 300 or 400 level courses. **Progression to the Major:**
A student may progress to the major or minor program only after completing courses specified by the department. These courses are listed in the Undergraduate Handout available in the department. Students who have completed the specified courses with a minimum GPA of 3.0 and wish to progress to the major or minor program must apply to the departmental office. This should be done as soon as the stated requirements are met so that a decision can be reached prior to the registration date for the next semester. Those who are not accepted into the Computer Science degree program will be counseled and advised of educational alternatives.

For undergraduate Computer Science majors who have taken at least three computer science courses at UTK, grades in all computer science courses from UTK, excluding service courses, will be averaged. If a course is repeated, all grades received for the course will be counted.

A student must have a Computer Science grade point average (as described above) of 2.50 or better in order to be retained in the major. If a student’s Computer Science grade point average drops below 2.50, the student will be given a warning. If after one more semester’s grades have been received, the student’s Computer Science average has not returned to 2.50, the student will be dropped as a major in Computer Science. A student who desires to be readmitted after being withdrawn as described above must attain an average in Computer Science courses (computed as described above) of at least 2.70.

**Culture Studies**

**Director:** Dr. Mary P. Richards

**Basic Faculty:**

P. Barrette, Ph. D. Romance Languages; L. J. Champion, Ph. D. Special Programs, R. Copeland, Ph. D. Special Programs; B. K. Dumas, Ph. D. English, J. R. Ericson, Ph. D. Special Programs; D. M. Fiene, Ph. D. Russian; C. D. Special Programs; R. W. Gwynne, Ph. D. Special Programs; M. H. Handelsman, Ph. D. Romance Languages; M. Hartsell, Ph. D. Special Programs; J. O. Hodges, Ph. D. Special Programs; W. L. Humphreys, Ph. D. Religious Studies; C. O. Jackson, Ph. D. History; E. Johnson, Ph. D. Romance Languages; W. C. Neale, Ph. D. Economics; M. L. Odell, Ph. D. Philosophy; M. E. Peak, M. A. Special Programs; H. C. Rutledge, Ph. D. Classics; D. W. Tandy, Ph. D. Classics; S. E. Wallace, Ph. D. Sociology.

Recognizing that new disciplines have developed which require the integration of knowledge from several traditional fields, the College of Liberal Arts has combined the resources of several departments to offer a series of interdisciplinary major concentrations and minors. These Cultural Studies programs are: Afro-American Studies, American Studies, Ancient Mediterranean Civilizations, Asian Studies, Cinema Studies, Comparative Literature, Latin American Studies, Linguistics, Medieval Studies, Russian and East European Studies, Urban Studies, and Women’s Studies. See individual program descriptions below for the major concentrations and/or minor requirements.

**Afro-American Studies**

The Afro-American Studies Program offers both a major concentration and a minor in Afro-American Studies. AAS courses are offered not only by the program itself but also by numerous departments within the College of Liberal Arts and some other colleges as well. This diversified sponsorship of AAS courses enables the University to offer a particularly varied range of courses in the field of Afro-American Studies.

**Major concentration:**

AAS Courses 201-202 are required in the concentration which consists of 24 hours from the Afro-American Studies curriculum. At least 15 hours must represent upper division credits. Majors are required to take AAS 431, preferably in their senior year. A maximum of 6 hours in AAS 492 and 493 combined can be applied toward the AAS major.

In planning their program majors must include courses from at least 2 other departments which crosslist courses with Afro-American Studies in addition to the AAS core course offerings.

**Minor:**

AAS Courses 201-202 are required in the minor which consists of 15 hours at least 9 of which must be upper division credits. A maximum of 3 hours in AAS 492 and 493 combined can be applied to a minor. In planning their programs minors must include courses from at least 2 other departments which crosslist courses with Afro-American Studies in addition to the AAS core course offerings.

**American Studies**

**Major concentration:**

History 251-252 (or equivalent courses) are prerequisites to a major concentration in American Studies which consists of 24 semester hours including American Studies 310 and 410; two of the following three courses: English 431, 432, or 433; and 15 hours of upper-division electives dealing with the American experience. Six hours of the electives group must come from one of the following subdivisions: Anthropology, Economics, Political Science, or Sociology. A list of acceptable elective courses is published annually by the American Studies Committee.

For further information consult the chairman of the American Studies Committee, Dr. Charles Jackson.

**Ancient Mediterranean Civilizations**

The major concentration in Ancient Mediterranean Civilizations consists of Classics 381, 382, and 21 additional hours from the following list, distributed so that no more than 15 hours are in any one of the three divisions: (a) Ancient Near Eastern Cultures: History 366; Religious Studies 311, 312; (b) Greek Culture: Classics 221, 222, 232, 331, 334, 422 (when topic is Greek cultural traditions); History 310; Philosophy 320, 420 (when topic is Greek cultural traditions); Political Science 475; and (c) Roman Culture: Classics 233, 334, 422 (when topic is Roman cultural traditions); History 311; Religious Studies 321, 326, 416.

Courses of variable content, topics courses, reading and research, off-campus, or foreign study in the Departments of Art, Classics, History, Philosophy, or Religious Studies can be applied to the three divisions as approved.

Students are encouraged to satisfy the foreign language requirement with Greek, Latin, or Classical Hebrew.

For further information, consult Dr. W. L. Humphreys (Religious Studies) or Dr. D. W. Tandy (Classics).

**Asian Studies**

The Asian Studies major concentration consists of 27 credit hours from the upper-division courses. Asian Studies and approved departmental offerings. Fifteen of the hours must be taken from courses listed within one of the four geographical-cultural areas (Islamic World; South Asia; China; Japan), and no more than 9 of those 15 hours can come from one of the following subdivisions (A or B). Subdivision A includes Anthropology, Economics, Geography, History, Political Science, and Sociology.

Prerequisite to the concentration is Asian Studies 101-102. Corequisite to the major 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 minor consists of Asian Studies 101-102 and 15 credit hours at the 200 level and above taken from courses within one of the four geographical-cultural areas. To more than 9 of those 15 hours can come from one subdivision.

**Film Studies**

The Cinema Studies minor consists of fifteen hours, including English 289 Introduction to the Film Studies, and Art 292 Film Design. It is strongly recommended that Introduction to Film Studies and Film Design be taken before selection of electives provided for in the minor.

For further information consult the chairperson of the Cinema Studies Program, Charles Maland, English Department. Other related courses in such departments as philosophy, sociology, and anthropology may be approved through consultation with Dr. Maland.

Approved Area Courses are: Art 292 Film Design (3); Art 392 Intermediate and Advanced Film Design (3-6); Broadcasting 330 Producing for Radio (3); Broadcasting 433 Producing for Television (3); English 289 Introduction to Film Studies (3); English 334 Film and American Culture (3); and English 489 Special Topics in Film (3).
Comparative Literature

A major concentration in comparative literature consists of 27 hours including Comparative Literature 201 and 401-402, and 9 hours of literature in a foreign language or Portuguese, numbered 300 and 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, Germanic and Slavic Languages, Romance Languages, Religious Studies, Romance Languages. Certain courses in Philosophy and Speech Communication may be substituted with the approval of the chairperson of the Comparative Literature Program. 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 minor in comparative literature consists of 18 hours including Comparative Literature 201 and either Comparative Literature 401 or 402. 6 hours of approved literature courses in a foreign language in courses numbered 300 and above, and 6 hours of literature courses numbered 300 and above in a different department. These 8 hours may be either in English or a foreign language and should be chosen from the following departments: Classics, English, Germanic and Slavic Languages, Religious Studies, and Romance Languages. Certain Philosophy and Theatre courses may be substituted with the approval of the chairperson of the Comparative Literature Program. Students concentrating in comparative literature are strongly encouraged to continue study of a foreign language beyond the minimum requirement.

Latin-American Studies

The major concentration consists of 27 hours including Latin American Studies 401 and 402, three hours of either History 360 or 361, three hours of an approved Spanish or Portuguese literature/culture course at either the 300 or 400 level, and fifteen additional hours selected from courses offered by three different participating departments. Majors are strongly urged to take as a prerequisite Latin American Studies 251-252.

The minor consists of 18 hours including Latin American Studies 251-252, three hours of an approved Spanish or Portuguese literature/culture course at either the 300 or 400 level, and nine additional hours selected from courses offered by three different participating departments.

A practical working knowledge of Spanish or Portuguese acquired independently is a prerequisite for majors and minors. All students are strongly encouraged to earn credit hours through UTK’s Latin American Studies Abroad Program at the Federal University of Ceara in Fortaleza, Brazil. Other foreign study programs are also available for Brazil and Spanish-speaking Latin America.

For further information, consult with Dr. Michael Handelman (201 McClung Tower), Chairperson of the Latin American Studies Program.

Linguistics

This major concentration offers a broad exposure to the various fields of linguistics (including historical, descriptive, theoretical and applied linguistics) along with an opportunity to study a foreign language that overlaps with other disciplines such as psycholinguistics, sociolinguistics, 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 B.A. level.

Students should consult program advisors early in planning a Linguistics major or minor. 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 for the major concentration are Linguistics 200 (highly recommended); selection of the Foreign Studies option to fulfill the upper-level distribution requirement (required); and a two-semester sequence of a non-Indo-European language to be selected from the following: Asian Studies 121-122 (5,5) (Arabic); Asian Studies 131-132 (5,5) (Chinese); Asian Studies 141-142 (4,4) (Hebrew); Asian Studies 151-152 (5,5) (Japanese); Religious Studies 309-310 (3.3) (Hebrew); other non-Indo-European language sequences approved by the Linguistics Committee (required).

The concentration shall consist of 30 hours distributed as follows: (a) 24 hours composed of Audiology and Speech Pathology 305 (3); English 371, 372, and 471 (3,3,3); French, German, Russian or Spanish 425-426 (3,3); and Linguistics 420-430 (3,3), and (b) 6 hours of the following, selected in consultation with the Linguistics Committee: Anthropology 411 (3); Audiology and Speech Pathology 320, 465, 579, (3,3,3); Educational Curriculum and Instruction 457 (3); Special Education 426 (3,3); and Linguistics 420-430 (3,3,3); English 371, 372, 472, 475, 486, 508, 509, 680 (3 hours each); French 421, 422, 521-522 (3 hours each); German 435-436 (3,3), 571-572 (3,3), Linguistics 400 (3), Psychology 475 (3), Psychology 450, 452, 543, 3 hours each); Spanish 421, 422, 531-532, 532-533 (2,3,3,3); Theatre 426 (4).

Other hours may be substituted in (b) by approval of the Linguistics Committee.

A minor in Linguistics shall consist of 18 credit hours composed of (1) either English 471 (3) or 3 hours from section (b) of the major, selected in consultation with the Linguistics Committee; and (2) 15 hours as follows: Audiology and Speech Pathology 305 (3); English 371 (3) or 372 (3); French, German, Russian or Spanish 425 (3) or 426 (3); and Linguistics 420-430 (3,3).

Note: In addition to the above listed courses for the minor there are occasional offerings in the Honors Series or in graduate seminars which may be substituted for certain requirements subject to written approval of the Linguistics Committee and the Office of the Dean.

Medieval Studies

A major concentration in Medieval Studies 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: (1) history, philosophy, political science, and religious studies; (2) language and literature; (3) the arts - history of art, architecture, music, and speech and theatre. Courses should not be selected at random but should either form a related pattern (for example, courses in the literature and history of Medieval England or Italy, etc.), or should revolve around a particular discipline or two closely related disciplines (for example, courses in the history of art and architecture).

A concentration in Medieval Studies focuses on 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.

A concentration 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 need further language training and work in medieval studies to supplement their Medieval Studies concentration with extensive work in one of the traditional disciplines.

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 Dr. Paul Barretta.

Category #1 History, Philosophy, and Political Science: History 312 Medieval History: 1000-1100 (3); History 313 Medieval History: 1100-1400 (3); History 330 History of England to 1688 (3); History 334 History of Germany to 1815 (3); History 369 History of the Middle East (3); History 474 Studies in Medieval and Early European History (3); Philosophy 322 Medieval Philosophy (3); and Political Science 475 Ancient and Medieval Political Thought (3).

Category #2 Language and Literature: Classics 435 Medieval Latin (3); English 371 Foundations of the English Language (3); English 401 Medieval Literature (3); English 402 Chaucer (3); French 410 Medieval French Literature (3); Italian 401 Dante and Medieval Culture (3); and Italian 402 Petrarch and Boccaccio (3).

Category #3 The Arts: Architecture 415 Seminar in Medieval Architecture (3); Art 371 Early Christian and Byzantine Art to 1350 (3); Art 372 Northern European Painting, 1350-1600 (3); Art 381 Medieval Art of the West, 800-1450 (3); Art 382 The Art of Italy, 1250-1450 (3); and Music History 210 History of the Music to 1750 (3).
Russian and East European Studies

The major concentration consists of 30 hours from the following: Geography 375, six hours from History 340-341, Philosophy 393, Political Science 459 and four additional hours from Political Science 469, 574; Russian 311-312; Russian and East European Studies 410; and additional hours in courses numbered 301 and above offered by the Russian section of the Department of Germanic and Slavic Languages. Recommended prerequisites to the major concentration are the completion of Russian 201-202 and Russian Culture 371-372.

Urban Studies

Urban Studies is a valuable major concentration for students who plan to work in such areas as housing, real estate, development, neighborhood organization, and environmental design.

A major concentration in Urban Studies consists of a minimum of 30 semester hours, including Urban Studies 250, 350, 450, 460, and at least 15 additional semester hours from the Urban Studies curriculum.

A minor consists of 18 semester hours, including Urban Studies 250 and 350 plus additional semester hours from the Urban Studies curriculum. Curricular planning should be done with an advisor in Urban Studies. For more information, contact the chairperson of the Urban Studies Committee.

Approved Courses in other departments: Geography 365 Geography of Appalachia; Rural Sociology 380 Rural Sociology; Sociology 383 The City, 462 Population; and Transportation 302 Transportation Principles and Policies.

Women's Studies

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 liberal arts major and at least 15 additional semester hours 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 role they are playing in society, Women's Studies can enhance a student's career preparation and opportunities.

The Women's Studies Program offers a wide variety of courses, some interdisciplinary in nature and others originating in supporting departments throughout the university. These courses, as well as electives, may be used to satisfy requirements in various colleges, or they may serve as a concentration in Women's Studies within a Cultural Studies major or minor.

The major 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 (324, 380, 385, 432, 453, 466, 483), Contemporary Issues (375, 382, 410, 425, 434), and Literature and the Arts (330, 332, 422). As 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.

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.

Ecology

Dewey L. Bunting, Director

Basic Faculty:
- C. C. Amundsen, Ph. D. Botany
- S. I. Auerbach, Ph. D. O. R. N. L.
- B. L. Blaylock, Ph. D. O. R. N. L.
- E. R. Buckner, Ph. D. Forestry
- D. L. Bunting, Ph. D. Zoology
- G. M. Burghardt, Ph. D.
- Psychology: J. R. Carter, Ph. D. Geography
- E. E. Clebsch, Ph. D. Botany
- C. C. Coutant, Ph. D. O. R. N. L.
- B. L. Dearden, Ph. D. Forestry
- H. R. Delcourt, Ph. D. Botany
- P. Delcourt, Ph. D. Geology
- H. A. Fribourg, Ph. D. Plant and Soil Science
- R. H. Gardner, Ph. D.
- C. S. Gist, Ph. D. O. R. N. L.
- N. B. Greenberg, Ph. D. Zoology
- L. J. Gross, Ph. D. Mathematics
- T. H. Hallam, Ph. D. Mathematics
- J. H. Hensen, Ph. D. U. T. S. I.
- R. L. Hay, Ph. D. Forestry
- J. W. Hilty, Ph. D. Agricultural Biology
- S. G. Hildebrand, Ph. D.
- G. L. Vaughn, Ph. D. O. R. N. L.; W. O. Smith, Ph. D. Botany
- G. Stacey, Ph. D. Zoology
- J. L. Gross, Ph. D. Mathematics
- J. H. Hensen, Ph. D. U. T. S. I.
- R. L. Hay, Ph. D. Forestry
- J. W. Hilty, Ph. D. Agricultural Biology
- S. G. Hildebrand, Ph. D.
- G. L. Vaughn, Ph. D. O. R. N. L.; W. O. Smith, Ph. D. Botany
- G. Stacey, Ph. D. Zoology
- J. L. Gross, Ph. D. Mathematics
- J. H. Hensen, Ph. D. U. T. S. I.
- R. L. Hay, Ph. D. Forestry
- J. W. Hilty, Ph. D. Agricultural Biology
- S. G. Hildebrand, Ph. D.
- G. L. Vaughn, Ph. D. O. R. N. L.; W. O. Smith, Ph. D. Botany
- G. Stacey, Ph. D. Zoology
- J. L. Gross, Ph. D. Mathematics
- J. H. Hensen, Ph. D. U. T. S. I.
- R. L. Hay, Ph. D. Forestry
- J. W. Hilty, Ph. D. Agricultural Biology
- S. G. Hildebrand, Ph. D.
English

Professors:
J. B. Trahern (Head), Ph. D. Princeton.
P. G. Adams (Young Professor and Emeritus), Ph. D. Texas; J. M. Armistead, Ph. D. Duke; E. W. Bratton (Associate Head), Ph. D. Illinois; D. A. Carroll, Ph. D. North Carolina; D. R. Cox, Ph. D. Missouri; K. Curry (Emeritus), Ph. D. Yale; R. Y. Drake, Jr., Ph. D. Yale; W. Dykeman (Adjunct), B. A. Northwestern; J. H. Fisher (John C. Hodges Professor and Emeritus), Ph. D. Pennsylvania; N. M. Goslee, Ph. D. Yale; J. A. Hansen (Emeritus), Ph. D. Yale; R. M. Kelly, Ph. D. Duke; K. L. Knickerbrocker (Emeritus), Ph. D. Yale; B. J. Leggett, Ph. D. Florida; F. D. Miller (Emeritus), Ph. D. Virginia; R. B. Miller, Ph. D. Brown; A. R. Penner, Ph. D. Colorado; J. E. Reese (Chancellor), Ph. D. Kentucky; N. J. Sanders (Young Professor), Ph. D. Shakespeare Institute, Stratford-on-Avon; D. J. Schneider (on leave), Ph. D. Northwestern; W. R. Shurr, Ph. D. North Carolina; P. L. Soper (Emeritus), Ph. D. Cornell; D. D. Cornel; B. T. Stewart (Emeritus), Ph. D. Northwestern; R. H. Walker (Emeritus), M. A. Texas; T. V. Wheeler, Ph. D. North Carolina; J. M. White (Young Professor), M. A. Cambridge; N. Wright (Emerita), Ph. D. Yale.

Associate Professors:
L. S. Burghardt, Ph. D. Chicago; B. K. Dumas, Ph. D. Arkansas; J. E. Gill, Ph. D. North Carolina; D. F. Goslee, Ph. D. Yale; T. J. A. Heffernan, Ph. D. Cambridge; M. Kallet, Ph. D. Rutgers; M. L. Keene, Ph. D. Texas; L. Leki, Ph. D. Illinois; M. A. Lofaro, Ph. D. Maryland; C. J. Maland, Ph. D. Michigan; M. P. Richards, Ph. D. Wisconsin; F. K. Robinson, Ph. D. Texas; R. E. Stillman, Ph. D. Pennsylvania.

Assistant Professors:

Instructors:
J. L. Ball, Ph. D. Tennessee; K. Benson, M. A. Tennessee; M. J. Caffee, M. A. Tennessee; P. F. Clark, Ph. D. Houston; W. W. Demestes, Ph. D. Wisconsin; M. Emery, M. A. New York; S. E. Fariere, Ph. D. Cornell; B. A. Fogelman, Ph. D. New York; D. E. Francisco, M. A. Tennessee; R. J. Frontain, Ph. D. Purdue; P. J. Hanse, Ph. D. Cornell; C. M. Hoffman, M. A. Iowa; N. H. Kaylor, Jr., Ph. D. Vanderbilt; M. S. Lewis, Ph. D. Tennessee; E. O. Overbye, M. A. Virginia; M. E. Papke, Ph. D. McGill; M. H. Simpson, M. A. Oregon; P. A. Troy, M. A. New Mexico State; M. Waldvogel, M. A. Michigan; J. A. Williamson, M. A. Southern Illinois.

Prerequisites and Corequisites:
(1) English 101 and 102, or the equivalents, are prerequisites to all English courses at the 200, 300, and 400 levels; and (2) as a graduation requirement for a B. A., each English major must complete the equivalent of the second year of a foreign language, maintaining a grade average of C in the courses used to fulfill this requirement (D's in some of these courses can be counted if the overall average is C or better). If a student earns less than a C average, he or she must repeat courses and/or petition the department for a waiver.

Major Requirements: At least 36 semester hours of course work in the English Department, 30 of which must be at the 300 or 400 level.

For all English Majors: (1) English 201-202 (British Literature), 221-222 (Literature of the Western World), or any two of 231-232-233 (American Literature). This requirement should be satisfied, if possible, before the student takes courses at the 300-400 level; and (2) English 371 or 372 (Study of the English Language).

Concentration in Literature: Nine English courses at the 300-400 level, including: (1) English 376 (Colloquium in Literature), to be taken, if possible, near the beginning of the student's major program; (2) at least four courses in literature before 1900, including at least two before 1800 (see departmental brochure, Undergraduate Study in English, for a course list); and (3) four other courses, at least one of which is based on an approach to literature other than literary history (see departmental brochure, Undergraduate Study in English, for a course list).

Concentration in Writing: Nine English courses at the 300-400 level, including: (1) a two-course sequence in expository, technical, or creative writing; (2) three other courses in writing; and (3) four other courses, at least three of which must be literature courses selected in consultation with the advisor.

Individualized Program: 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: For students who qualify, the English Department offers specially designed courses at the freshman, sophomore, and senior levels. The freshman and sophomore honors courses are enriched versions of regular sections in composition, in introduction to the various genres, and in American, British, and world literatures. Senior honors courses involve independent study leading to a comprehensive examination and a substantial paper. For further information, contact the Director of Undergraduate Studies in English.

An English minor consists of at least 15 semester hours of English courses, at the 300-400 level.

Certification for Teaching: Students planning to teach English in public schools should contact Miss Clark, Room 212, Claxton Education Building.

Graduate Study: Students wishing to enter a graduate program in English should address inquiries to the Dean of the Graduate School. To be accepted for graduate study in English, the student should have had at least eighteen semester hours in English courses above the freshman and sophomore level with a better than B average and a B average in all other undergraduate courses. Students who lack eighteen semester hours of undergraduate English may be required to take and pass with a grade of B or better a designated number of undergraduate courses at The University of Tennessee before being admitted to graduate study. Admission is also dependent on satisfactory GRE scores. Consult the Graduate Catalog for specific requirements.

French

See Romance Languages.

Geography

Professors:
S. R. Jumper (Head), Ph. D. Tennessee; C. S. Aiken, Ph. D. Georgia; T. L. Bell, Ph. D. Iowa; E. H. Hammond (Emeritus), Ph. D. California (Berkeley); R. G. Long (Emeritus), Ph. D. Northwestern; C. W. Minkel (Vice Provost and Dean for Graduate Studies), Ph. D. Syracuse; C. T. Paladun, Ph. D. Colorado; T. H. Schmudde, Ph. D. Wisconsin; T. J. Wilbanks (Adjunct), Ph. D. Syracuse.

Associate Professors:
L. W. Brinkman, Jr., Ph. D. Wisconsin; J. R. Carter (Associate Director, U. T. Computing Center), Ph. D. Georgia; R. A. Foresta, Ph. D. Rutgers; L. M. Pulipher, Ph. D. Southern Illinois; B. A. Raislon, Ph. D. Northwestern; J. B. Rehder, Ph. D. Louisiana State.

Assistant Professors:
T. J. Blasing (Adjunct), Ph. D. Wisconsin; C. P. Harden, Ph. D. Colorado (Boulder); S. P. Horn, Ph. D. California (Berkeley).

A B. A. major in Geography consists of Geography 310, 320, 3301, 340, 415 and 499, along with an additional 18 hours selected from geography courses at the 300 and 400 levels. At least one course must be chosen from among Geography 361, 363, 365, 372, 373, 375, and 379 and at least nine of the 18 additional hours must be at the 400 level.

Minor: Geography 101-102 are recommended as an introduction to the minor, which consists of Geography 310, 320, 3301, 340, and 360, and six additional hours of upper division work in geography, including at least three hours at the 400 level.

*Students who have successfully completed Geography 131-132 are considered to have satisfied this course requirement in the geography major or minor.
Geological Sciences

Professors:
K. R. Walker (Head), Ph. D. Yale;
H. J. Klepser (Emeritus), Ph. D. Ohio State;
O. C. Kopp, Ph. D. Columbia; K. C. Misra,
Ph. D. Western Ontario; R. E. McLaughlin
(Emeritus), Ph. D. Tennessee; H. Y. McSween,
Ph. D. Harvard; L. A. Taylor, Ph. D. Lehigh;
J. Q. Walls (Emeritus), Ph. D. North Carolina.

Associate Professors:
D. W. Byerly, Ph. D. Tennessee;
T. W. Broadhead, Ph. D. Iowa; M. Clark,
Ph. D. Pennsylvania State; P. A. Delcourt,
Ph. D. Minnesota; T. C. Labotka, Ph. D.
Caltech; R. T. Williams, Ph. D. V. P. I.

Assistant Professors:
R. W. Arnseth, Ph. D. Northwestern;
S. G. Dirise, Ph. D. Wisconsin; M. McKinney,
Ph. D. Yale.

Prerequisites to a B. S. major are: Geology
101-102; Chemistry 120-130; Mathematics
141-142; three semesters from Physics 131-
132; Biology 110-120. This requirement
includes a two semester sequence in one
area plus a single semester in the other; the
single semester may be satisfied by high
school course work in that area.

Major requirement consists of:
Geology 310, 320, 330, 340, 370 (16 hours); 3 courses
from: Geology 410, 420, 440, 450, 460, 470,
480; and 6 hours of geology courses num-
bered 300 or above. Geology 440 (field
camp) is strongly recommended for students
planning a career in geology.

Minor requirement consists of:
Prerequi-
sites: Geology 101-102. Geology courses at
least 16 hours of courses numbered 200 or
higher.

Germanic and Slavic Languages

Professors:
J. E. Falen, Ph. D. Pennsylvania; H. W. Fuller
(Emeritus), Ph. D. Wisconsin; H. Kratz, Ph. D.
Ohio State; Ph. D. Cornell; J. C. Osborne,
Ph. D. Northwestern; M. P. Rice, Ph. D.
Vanderbilt.

Associate Professors:
D. M. Fienne, Ph. D. Indiana; N. A. Lauckner,
Ph. D. Wisconsin; D. E. Lee (Head), Ph. D.
Stanford; C. J. Mellor, Ph. D. Chicago;
U. C. Ritzenhoff, Ph. D. Connecticut.

Assistant Professors:
C. Hodges, Ph. D. Chicago; J. Kolodziej,
Ph. D. Indiana.

Instructors:
M. H. Harris, M. A. Illinois; A. Rashkovsky,
M. A. Tartu.

Placement Examination. Students who
have had previous work in German or
Russian either in high school or at another
college should take a placement test to
determine what level course they should
elect. Placement tests are given for incoming
freshmen during orientation in the summer,
and also the first week of each semester.

Proficiency Examinations. Students who have
acquired knowledge of German or
Russian through private study, tutoring, resi-
dence in foreign countries, or the like, should
request a proficiency test. A student earning
a grade of C or better on such a test will
receive credit for an appropriate number of
courses. Superior students are encouraged to
proceed as rapidly as their achievement
permits. Students who omit any course in a
sequence may receive credit for it by pass-
ing a proficiency examination.

Foreign Study. Students are encouraged
to study abroad, particularly through partici-
pation 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 for-
eign study programs can readily be
transferred to UTK. For qualified students,
the department also offers German 491 For-
eign Study and Russian 491 Foreign Study.
Students should consult the department before registering for the foreign study
course.

B. A. Major in German. Majors or minors
in German should carefully prepare their pro-
grams in consultation with a departmental
faculty advisor. German 201-202 or the
equivalent is a prerequisite to the major.
The major shall consist of at least 24 hours
of German in courses numbered above 300,
(excluding courses in English translation or
331-332), and shall usually include German
301-302. In order to graduate, majors will be
required to take a proficiency test in
German. It is recommended that German
majors also take History 151-152 or 334-335
and 6 hours of 200 level English courses.
Majors are also strongly urged to consider a
minor in some other area of the humanities.

Minor in German. German 201-202 or its
equivalent is 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).

B. A. Major in Russian. Russian 201-202
is a prerequisite to the major. Russian
majors should prepare their programs in
consultation with the departmental faculty
advisor. The major in Russian shall consist of
at least 30 hours of Russian courses
including Russian 301-302; 311-312; 401-
402; 451-452; and 6 hours from Russian 221,
222, 226, 321, 322, 326, 371, 372; or other
courses numbered above 400. It is recom-
manded that majors also take Russian
History 340-341 and 6 hours of sophomore
English. Majors are urged to consider a
minor in some other area of the humanities.

Minor in Russian. 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.

Greek
See Classics.

Hebrew
See Religious Studies.

History

Professors:
J. H. Morrow, Jr. (Head and Alumni
Distinguished Service Professor), Ph. D.
Pennsylvania; P. H. Bergeron, Ph. D.
Vanderbilt; E. V. Chmielewski, Ph. D.
Harvard; R. E. Duncan, Ph. D. California
(Berkeley); J. R. Finger, Ph. D. Washington;
L. P. Graf (Benwood Distinguished Service
Professor and Emeritus), Ph. D. Harvard;
Y. P. Hao (Lindsay Young Professor), Ph. D.
Harvard; A. G. Haas, Ph. D. Chicago;
R. W. Haskins (Emeritus); Ph. D. California
(Berkeley); C. O. Jackson (Associate Dean,
Liberal Arts College), Ph. D. Emory;
M. M. Klein (Alumni Distinguished Service
Professor, Lindsay Young Professor and
Emeritus), Ph. D. Columbia; L. A. Rater
(Dean, Liberal Arts), Ph. D. Cornell.

Associate Professors:
S. D. Becker, Ph. D. Case Western Reserve;
J. D. Bing, Ph. D. Indiana; J. Bohstedt, Ph. D.
Harvard; C. W. Johnson, Ph. D. Michigan;
M. J. McDonald, Ph. D. Pennsylvania;
J. Muldowyn (Associate Head), Ph. D. Yale;
P. J. Pinckney, Ph. D. Vanderbilt;
P. H. Trainer, Ph. D. Emory; J. G. Utech, Ph. D.
Illinois; W. B. Wheeler, Ph. D. Virginia.

Assistant Professors:
P. H. Brummet, Ph. D. Chicago; J. R. Farr,
Ph. D. Northwestern; W. W. Farriss, Ph. D.
Harvard; C. G. Fleming, Ph. D. Duke;
C. L. Lansing, Ph. D. Michigan; C. D. Matson,
Ph. D. Columbia; J. D. Miller, Ph. D. Duke.

Instructor:
D. B. Morrow, M. A. Tennessee.

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 his-
tory 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.

B. A. Major. Majors in history should pre-
pare their programs in consultation with a
departmental faculty advisor. History 151-152
(or their honors equivalents) or 161-162 are
prerequisites to a major which consists of
27 hours, including: (1) 6 hours of History
251-252 (or their honors equivalents); and (2) 21
upper-division hours. The distribution of the
upper-division courses shall be in such a
way that they include at least one course
dealing predominantly with a period prior to
1750 may count in the distribution and at
least one course in each of the following

College of Liberal Arts/Geological Sciences
areas: (a) Europe-Latin America, (b) United States, and (c) Asia-Africa.

Minor. History 151-152 (or honors equivalents) are prerequisites to a minor which consists of 15 hours of courses numbered 200 or above, including at least: (1) 6 hours in United States history; and (2) 9 upper-division hours.

History for Non-Majors. The department welcomes non-majors in its courses. Few history courses have formal prerequisites.

Honors Program. The Department of History offers honors sections of the Western Civilization and United States history survey course. Some entering freshmen are invited to participate; other interested students may apply. These survey courses are open to non-majors. An honors major requires successful completion of two special courses at the junior level (307-308), and a senior thesis (407-408). The honors major consists of 33 hours, including 27 hours as outlined above, plus 307-308. All rising 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 should consult the department's honors coordinator.

Human Services
The interdisciplinary program in Human Services is comprised of applied social sciences operating within the tradition of humanism, liberal thought, and concern for the values and dignity of persons. See the Department of Special Services Education in the College of Education for a statement of requirements for progression into the major.

Courses offered in the Department of Special Services Education in the College of Education provide opportunity for a major in the College of Liberal Arts.

Requirements for a B. A. in Human Services include: (1) Special Services Education 220, 330, 380, 402, 430, 440, 441; (2) 9 hours from a departmentally-developed list of professional electives; (3) Special Services Education 220, Psychology 360, and Sociology 375 to be used to fulfill the College Social Science distribution requirement; and three additional hours of Mathematics.

Italian
See Romance Languages.

Japanese
See Cultural Studies (Asian Studies).

Latin
See Classics.

Latin American Studies
See Cultural Studies.

Linguistics
See Cultural Studies.

Mathematics

Professors:
J. S. Bradley (Head), Ph. D. Iowa; G. E. Albert (Emeritus), Ph. D. Wisconsin; D. F. Anderson, Ph. D. Chicago; G. A. Baker, Ph. D. Cornell; J. H. Carruth, Ph. D. Louisiana State; C. E. Clark, Ph. D. Louisiana; R. E. Crane, Ph. D. Purdue; R. J. Daverman, Ph. D. Wisconsin; D. J. Dessart, Ph. D. Maryland; D. E. Dobbs, Ph. D. Cornell; E. D. Eaves (Emeritus), Ph. D. Texas; H. Frandsen, Ph. D. Illinois; J. A. George, Ph. D. Stanford; T. G. Hallam, Ph. D. Missouri; D. B. Hinton, Ph. D. Tennessee; A. S. Householder (Emeritus), Ph. D. Chicago; I. S. Husch, Ph. D. Florida State; G. S. Jordan, Ph. D. Wisconsin; B. A. Kupershmidt (Space Institute, Tullahoma), Ph. D. Massachusetts Institute of Technology, J. H. Mathews, Ph. D. Tulane; R. M. McConnel, Ph. D. Duke; D. D. Miller (Emeritus), Ph. D. Michigan; B. S. Plagut, Ph. D. Illinois; K. C. Raddy (Space Institute, Tullahoma), Ph. D. Indian Institute of Technology, W. Schaefer, Ph. D. Maryland; S. M. Serbin, Ph. D. Cornell; K. Soni, Ph. D. Oregon State; F. W. Stallmann (Emeritus), Ph. D. Dusseldorf (Germany); K. R. Stephenson, Ph. D. Wisconsin; E. Wachspress, Ph. D. Rensselaer Polytechnic Institute; W. R. Wade, Ph. D. California (Riverside); C. G. Wagner, Ph. D. Duke; J. J. Walsh, Ph. D. SUNY (Binghamton).

Associate Professors:
V. Alexiades, Ph. D. Delaware; N. Allikakos, Ph. D. Brown; J. Dydak, Ph. D. Warsaw (Poland); L. T. Gross, Ph. D. Cornell; O. Karakashian, Ph. D. Harvard; K. R. Kimble (Space Institute, Tullahoma), Ph. D. Ohio State; Y. Kuo, Ph. D. Cincinnati; S. Lenhart, Ph. D. Kentucky; J. Rosinski, Ph. D. Wroclaw University, W. H. Row, Jr., Ph. D. Wisconsin, H. Simpson, Ph. D. California Institute of Technology; J. Smith, Ph. D. California (Berkeley); B. K. Soni (Space Institute, Tullahoma), Ph. D. Texas; R. P. Soni, Ph. D. Oregon State; C. Sundberg, Ph. D. Wisconsin.

Assistant Professors:
L. Baies, Ph. D. Cornell; J. A. Haefner, Ph. D. Wisconsin; M. Kut, Ph. D. Arizona; S. Mulay, Ph. D. Purdue; B. K. Soni (Space Institute, Tullahoma), R. Svirsky, Ph. D. John Hopkins.

Instructor:
C. G. Doss, M. A. Tennessee.

B. S. Major: Mathematics 141-142 (or the Honors version, 147-148) is prerequisite to a major in Mathematics. Majors must also have computer programming skills sufficient to take 371; students without other computing experience should take Computer Science 100, 101, or 102. The courses required for the major are: 221 Discrete Mathematics (3); 231 Differential Equations I (3); 247 Honors: Calculus III (4); 251 Matrix Algebra I; or 257 Numerical Algorithms I (3); 323 Probability I (3); 341 Analysis I (3); 351 Algebra I (3); 371 Numerical Algorithms I (3) and nine additional hours selected from Mathematics courses numbered 421 through 472.

Honors B. S. Major: Candidates for an honors degree in Mathematics must fulfill all of the requirements for the B. S. degree in Mathematics, but take 12 (rather than 9) hours in Mathematics courses numbered 421 through 472. The grade point average computed on the 24 hours of Mathematics courses consisting of 323, 341, 351, and 371, plus the aforementioned 12 hours, will determine the honors category: GPA at least 3.4 - Honors; GPA at least 3.6 - High Honors; GPA at least 3.8 - Highest Honors. Students with credit for more than 12 hours in courses numbered 421 through 472 may designate the 12 hours to be included in the above average.

Minor: Mathematics 141-142 (or 147-148) is prerequisite to a minor in Mathematics. A minor in Mathematics consists of (1) 241 and 251; (2) 221 or 231; and (3) nine additional hours in Mathematics courses numbered 300 or higher. The grade in each of the above courses must be at least C.

Medieval Studies
See Cultural Studies.

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, neurosciences, birth defects, cytogenetics 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 M. S. and Ph. D. 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.

Microbiology

Professors:
A. Brown (Head), Ph. D. Chicago; R. W. Beck, Ph. D. Wisconsin; J. M. Becker, Ph. D. Cincinnati; D. A. Brian, Ph. D. D. V. M. Michigan State; T. C. Montie, Ph. D. Maryland; W. S. Riggsby, Ph. D. Yale;
B. T. Bosserman, Tullahoma, Ph. D. (Canada); B. V. Sc., Bristol (England); G. S. Sayler,
B. S. Major: Prerequisites are Biology 150 or 110-120, Chemistry 120-130, and Mathematics 151-152 or 141-142. Corequisites are Chemistry 350-360, 359, Biology 210, 220, and Biochemistry 410. Courses in Microbiology are 310, 319, 410, 420, 429, 430, 439 and 8 additional hours of 400-level courses which at least 1 hour must be a laboratory course.

Medical Technology

Courses in this major are open only to qualified students who have completed the first three years of the Science-Medical Technology Curriculum, described in the College of Liberal Arts curricula section of this catalog, and who have been approved by the Medical Technology Admissions Committee.

Music

Professors:

J. J. Meacham (Head), M. M. Northwestern;
G. C. Bitzas, M. M. Converse;
J. P. Brock, M. M. Alabama;
W. J. Carter (Emeritus);
D. M. A. Eastman;
M. A. Sam Houston;
F. M. Combs, M. A. Missouri;
G. F. DeVine (Emeritus), Diploma, Schurz (Chicago);
W. J. Dorn, M. M. Columbia;
H. W. Fried, Ph. D. North Carolina;
A. G. Holford (Emeritus), M. M. Northwestern;
C. R. Huber, Ph. D. North Carolina;
D. B. Northington, D. M. A. Yale;
D. M. Pederson, Ph. D. Iowa;
W. J. Starr (Emeritus), M. M. Eastman;
D. D. Stutzenberger, D. M. A. Maryland;
D. Van Vactor (Emeritus), M. M. Northwestern.

Associate Professors:

W. Bommelje, M. M. Tulsa;
C. M. Fraley, B. M. Oberlin Conservatory;
P. M. Horodysky, M. M. Manhattan School of Music;
D. H. Hough, M. M. Tennessee;
J. A. Jacobs, D. M. A. Texas;
A. E. Johnson, D. M. A. Stanford;
J. A. Lennon, D. M. A. Michigan;
D. K. McClelland, M. A. Columbia;
L. W. Michalopolous, M. A. Columbia;
W. P. Scarlett, M. M. Louisana State;
S. R. Bearie, M. A. Tennessee;
J. C. Teachey, M. A. Florida State;
S. E. Young, Ph. D. North Carolina.

Assistant Professors:

W. W. Hawthorne, Ph. D. Cincinnati;
C. F. Leach, M. M. New Mexico;
W. S. MacMorran, M. M. Wisconsin;
J. C. Plonck, M. M. Northwestern;
E. Schroeder, Ph. D. Standford;
G. M. Sperl, M. M. Indiana.

Instructor:

T. Guib, M. M. Yale.

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

The 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 of each of two languages chosen from French, German, and Italian. Students majoring in music history and literature must complete two years of either French or German.

Bachelor of Arts Degree The Department 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.

Music Minor (a) 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 electives. Prerequisites are Music General 100 or equivalent and two semesters of applied music study (Music Performance) at the 103-190 levels. (b) 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 electives. Prerequisites are Music General 100 or equivalent and two semesters of applied music study at the 103-190 levels.

B. M. Curriculum in Sacred Music (Organ or Piano)

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Senior

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Total: 130 hours

1Humanities-Arts (non-music), Literature, Philosophical Perspective, Interdisciplinary Studies.
3Piano majors substitute: Music Keyboard 410-420, 430-440-450 (total 10 hours) for Music Keyboard 240-310-320-460-470 (total 9 hours).
4Piano majors substitute: Electives 9 hours for Electives 10 hours.

B. M. Curriculum in Sacred Music (Voice or Piano)

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Junior

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Senior

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Music Theory 110, 120 6
English Composition 6
Freshman
Music History 130, 140 2
Music History 200 3
Applied Music 1
Applied Music 1
Senior
Foreign Language 6
Music General 200 0
Music General 200 2
Liberal Arts Elective 3

Sophomore
Non-U.S. History or Social Science 6
Music Theory 210, 220 2
Music History 210, 220 2
Applied Music
Applied Music
Applied Music
Music Ensemble 2
Music Theory 250 4
Music Theory 290 3
Music General 200 0
Music General 200 0
Musical Ensemble 2

Junior
Mathematics, or Natural Science 6
Applied Music
Music Theory 310, 320, 390 9
Music History (300 or above) 3
Music Education 310... 3
Music Ensemble 2
Music Ensemble 2
Music General 200 0
Music General 200 0
Electives 3

Senior
General Education 6
Music Theory 420, 430, 440 9
Applied Music 6
Music Ensemble 6
Electives 6
Applied Music (Composition) 2
Applied Music (Composition) 2
Applied Music (Composition) 2
Applied Music 4
Music Ensemble 4

Total: 129 hours

1 Humanities-Arts (Non-music), Literature, Philosophical Perspectives or Interdisciplinary Studies.

B. M. Curriculum in Electronic Music

Freshman
Music Theory 110, 120 6
Music Theory 130, 140 2
Applied Music 1
Applied Music 1
Senior
Music History Elective 3
Total: 129 hours

1 Humanities-Arts (Non-music), Literature, Philosophical Perspectives or Interdisciplinary Studies.

B. M. Curriculum in Multiple Keyboard Instruments (Piano, Organ, Harpsichord)

Junior
Music History Elective 3
Total: 128 hours

1 Humanities-Arts (Non-music), Literature, Philosophical Perspectives or Interdisciplinary Studies.

B. M. Curriculum in Music History and Literature

Sophomore
Music Theory 210, 220 6
Music History 210, 220 6
Applied Music Principal (200 level) 6
Applied Music Secondary 2
Music Ensemble 2
Non-U.S. History, Social Science 6
Music General 200 0
Music General 200 0

Senior
Music History Elective 3
Applied Music Principal (200 level) 6
Applied Music Secondary 2
Music Ensemble 2
Non-U.S. History, Social Science 6
Music General 200 0
Music General 200 0

Total: 128 hours

1 Humanities-Arts (Non-music), Literature, Philosophical Perspectives or Interdisciplinary Studies.

B. M. Curriculum in Multiple Woodwind Instruments

Freshman
Music Theory 310, 320 6
Music Instrument 330 3
Applied Music Principal (300 level) 3
Applied Music Secondary 4
Music Ensemble 4
Music General 401 0
Non-U.S. History, Social Science 6
Music General 200 0
Music General 200 0
Electives 6
Music History Elective 3

Senior
Music Education 310, 320 6
Music Instrument 330 3
Applied Music Principal (400 level) 4
Applied Music Secondary 4
Music Ensemble 4
Music General 401 0
Non-U.S. History, Social Science 6
Music General 200 0
Music General 200 0
Electives 6

Total: 128 hours

1 Humanities-Arts (Non-music), Literature, Philosophical Perspectives or Interdisciplinary Studies.

B. M. Curriculum in Music History and Literature

Sophomore
Music Theory 210, 220 6
Music Theory 230, 240 2
Music History 210, 220 2
Applied Music 4
Music Ensemble 4
Music General 200 0
Music General 200 0

Junior
Music History Elective 3
Music History 390 3
Music History/Literature (300 level or above) 9
Music Theory 300 3
Music Education 310 3

1 Humanities-Arts (Non-music), Literature, Philosophical Perspectives or Interdisciplinary Studies.
### B. M. Curriculum in Music Theory

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*Humanities-Arts (non-music), Literature, Philosophical Perspectives, Interdisciplinary Studies.

*Must be two years in either French or German.

### B. M. Curriculum in Studio Music and Jazz

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*Humanities-Arts (non-music), Literature, Philosophical Perspectives, Interdisciplinary Studies.

### B. M. Curriculum in Piano

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*Humanities-Arts (non-music), Literature, Philosophical Perspectives, Interdisciplinary Studies.

### B. M. Curriculum in Piano Pedagogy and Literature

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<tr>
<td><strong>Music History 210, 220</strong></td>
<td>6</td>
<td>6</td>
<td>6</td>
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<tr>
<td><strong>Music History/Literature (300 or above)</strong></td>
<td>6</td>
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<tr>
<td><strong>Music General 200</strong></td>
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<td><strong>Music General 200</strong></td>
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<tr>
<td><strong>Non-U. S. History, Social Science</strong></td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
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<tr>
<td><strong>Electives</strong></td>
<td>6</td>
<td>6</td>
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<tr>
<td><strong>Total: 130 hours</strong></td>
<td><strong>Hours Credit</strong></td>
<td><strong>Hours Credit</strong></td>
<td><strong>Hours Credit</strong></td>
<td><strong>Hours Credit</strong></td>
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*Humanities-Arts (non-music), Literature, Philosophical Perspectives, Interdisciplinary Studies.

### B. M. Curriculum in Organ

<table>
<thead>
<tr>
<th>Hours Credit</th>
<th>Freshman</th>
<th>Sophomore</th>
<th>Total: 129 hours</th>
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<tr>
<td><strong>English Composition</strong></td>
<td>6</td>
<td>6</td>
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<tr>
<td><strong>Music History 110, 120</strong></td>
<td>6</td>
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<tr>
<td><strong>Music Theory 130, 140</strong></td>
<td>2</td>
<td>2</td>
<td>2</td>
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<tr>
<td><strong>Music Performance 190</strong></td>
<td>3</td>
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<tr>
<td><strong>Music Ensemble</strong></td>
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<tr>
<td><strong>Foreign Language</strong></td>
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<td><strong>Music General 200</strong></td>
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<tr>
<td><strong>Music Theory 210, 220</strong></td>
<td>6</td>
<td>6</td>
<td>6</td>
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<tr>
<td><strong>Music Theory 230, 240</strong></td>
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<td>2</td>
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<tr>
<td><strong>Music History/Literature (300 or above)</strong></td>
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<tr>
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<tr>
<td><strong>Music General 200</strong></td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Non-U. S. History, Social Science</strong></td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td>15</td>
<td>15</td>
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<tr>
<td><strong>Total: 129 hours</strong></td>
<td><strong>Hours Credit</strong></td>
<td><strong>Hours Credit</strong></td>
<td><strong>Hours Credit</strong></td>
</tr>
</tbody>
</table>

*Humanities-Arts (non-music), Literature, Philosophical Perspectives, Interdisciplinary Studies.
B. M. Curriculum in Music

**Freshman**
- English Composition: 6
- Music Theory 110, 120: 2
- Music History 200: 2
- Music Ensemble: 2
- Music General 300: 0
- Electives: 6

**Sophomore**
- Music History 210, 220: 6
- Music History 200: 2
- Music Theory 230, 240: 2
- Music Theory 210, 220: 2
- Music Theory 200: 2
- Music History Elective: 3
- Electives: 3

**Junior**
- Music History 210, 220: 6
- Music Theory 230, 240: 2
- Music Theory 210, 220: 2
- Music Theory 200: 2
- Music History Elective: 3
- Electives: 3

**Senior**
- Music History 210, 220: 6
- Music History Elective: 3
- Electives: 3

Total: 124-128 hours

1. **Humanities-Arts (non-music), Literature, Philosophical Perspectives, Interdisciplinary Studies.**

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**B. M. Curriculum in Woodwind, Brass and Percussion Instruments**

**Freshman**
- English Composition: 6
- Music Theory 110, 120: 2
- Music Theory 130, 140: 2
- Music History 200: 2
- Music Ensemble: 2
- Music General 300: 0
- Electives: 6

**Sophomore**
- Music History 210, 220: 6
- Music History 200: 2
- Music Theory 230, 240: 2
- Music Theory 210, 220: 2
- Music Theory 200: 2
- Music History Elective: 3
- Electives: 3

**Junior**
- Music History 210, 220: 6
- Music History Elective: 3
- Electives: 3

**Senior**
- Music History 210, 220: 6
- Music History Elective: 3
- Electives: 3

Total: 124-128 hours

1. **Humanities-Arts (non-music), Literature, Philosophical Perspectives, Interdisciplinary Studies.**

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**Organizational Psychology Program**

See Graduate School.

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**Philosophy**

Professors:
- J. W. Davis (Head), Ph. D. Emory; R. E. Aquila, Ph. D. Northwestern; G. G. Brenkert, Ph. D. Michigan; L. B. Cebik, Ph. D. Nebraska; R. B. Edwards, Ph. D. Emory; G. C. Graber, Ph. D. Michigan; B. C. Postow, Ph. D. Yale; D. Van de Vate, Ph. D. Yale.

Associate Professors:

Assistant Professors:
- H. P. Hamlin, Ph. D. Georgia; E. R. Jones III, Ph. D. Chicago; M. Lavin, Ph. D. Stanford.

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1. Must take 1 year of 2 languages chosen from French, German or Italian.
Major Prerequisite: Three 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: 18 hours in courses 200 or above. Minors should discuss their program with a member of the Philosophy faculty.

Physics and Astronomy

Professors:
W. M. Bugg (Head), Ph. D. Tennessee;
C. R. Bingham, Ph. D. Tennessee;
W. E. Blass, Ph. D. Michigan State;
J. E. Brau, Ph. D. Massachusetts Institute of Technology;
M. A. Breazeale, Ph. D. Michigan State;
T. A. Callcott, Ph. D. Purdue;
L. G. Christophorou, Ph. D. Manchester (England);
G. T. Condo, Ph. D. Illinois;
C. J. Craven (Emeritus), Ph. D. North Carolina;
W. E. Deeds, Ph. D. Ohio State;
J. B. Dicks, Jr. (Space Institute, Tullahoma), Ph. D. Vanderbilt;
K. F. Fox, Ph. D. Michigan;
N. M. Gailar (Emeritus), Ph. D. Ohio State;
S. Georghiou, Ph. D. Manchester (England);
J. W. Getman, Ph. D. Massachusetts Institute of Technology;
H. C. Jacobson, Ph. D. Yale;
W. A. Dunnill (Space Institute, Tullahoma), Ph. D. Florida;
S. S. Elston, Ph. D. Massachusetts;
W. M. Farmer (Space Institute, Tullahoma), Ph. D. Tennessee;
T. Ferrell, Ph. D. Clemson; T. H. Handler, Ph. D. Rutgers; D. R. Kefffer (Space Institute, Tullahoma), Ph. D. Florida; R. H. Kohl (Space Institute, Tullahoma), Ph. D. Ohio State; R. W. Lide, Ph. D. Michigan; S. Y. Shieh, Ph. D. Maryland; B. G. L. Ward, Ph. D. Princeton.

Assistant Professors:
S. J. Daunt, Ph. D. Quaers; R. DeSario, Ph. D. Chicago; R. Harmatz, Ph. D. Ohio State; S. P. Sorensen, Ph. D. Copenhagen.

Research Professor:
H. D. Cohn, Ph. D. Indiana.

Research Associate Professors:
D. L. McCorkle, Ph. D. Tennessee;
S. R. Nave, Ph. D. Tennessee.

Research Assistant Professors:
C-S, O. Ph. D. New York University;

Lecturer:
T. Riedinger, M. S. Vanderbilt.

Physics

B. S. Major The undergraduate physic major provides a thorough introduction to all of the core disciplines of physics so that students are prepared to pursue related specialties at a later point in their career. Students with special interests are encouraged to pursue those interests through research projects and/or independent study under the direction of members of the physics faculty through Physics 493.

Prerequisites to the major are: Physics 131-132 or 137-138; Mathematics 141-142.

The major consists of: Physics 231-232 or 237-238; Mathematics 231 and 241; Physics 311 (students intending to pursue graduate studies in Physics should also take 312 and 421 as electives); Physics 321, 322, 330, 331, 340, 341, 342, 401, 402, 421, 422, 430, 431, 440, 441 and 442.

Comparative Government and Politics:
311, 355, 356, 452, 454, 458, 460, 461, 463 and 464
International Relations: 365, 366, 370, 455, 489 and 470

Political Theory: 374, 475 and 476

Minor: Students majoring in Political Science who wish to prepare for a career in the public service may select to follow the concentration in Political Science. Political Science 101 or 107 and 102 plus 12 hours of courses numbered 300 and above.

Honors in Political Science: 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 normally is a two year program. Political Science 101, 107 and 102 are prerequisites to the major which consists of thirty-six hours, Political Science 301, 387-388, 394, and 21 additional hours numbered 300 and above. These 21 hours must include at least one course in each of four areas of the discipline: United States Government and Politics/Public Administration: 301, 310, 312, 315, 320, 321, 320, 331, 330, 340, 374, 410, 411, 412, 420, 421, 422, 430, 431, 440, 441 and 442.

Comparative Government and Politics: 311, 355, 356, 452, 454, 458, 460, 461, 463 and 464

Honors in Political Science: 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 normally is a two year program. Political Science 101, 107 and 102 are prerequisites to the major which consists of thirty-six hours, Political Science 301, 387-388, 394, and 21 additional hours numbered 300 and above. These 21 hours must include at least one course in each of four areas of the discipline: United States Government and Politics/Public Administration: 301, 310, 312, 315, 320, 321, 330, 340, 374, 410, 411, 412, 420, 421, 422, 430, 431, 440, 441 and 442.

Comparative Government and Politics: 311, 355, 356, 452, 454, 458, 460, 461, 463 and 464

Political Science

Professors:
L. J. Henderson, Jr. (Head), Ph.D. California (Berkeley); R. S. Avery (Emeritus), Ph. D. Northwestern; D. H. Carlisle (Emeritus), Ph. D. North Carolina; J. R. Fitzgerald, Ph. D. Oklahoma; L. S. Greene (Emeritus), Ph. D. Wisconsin; A. H. Hopkins, Ph. D. Syracuse; R. A. Gorman, Ph. D. New York; V. R. Iredell, Ph. D. Chicago; W. Lyons, Ph. D. Oklahoma; H. Plass, Ph. D. California; N. M. Robinson (Emeritus), Ph. D. Syracuse; T. A. Smith, Ph. D. Ohio State; O. H. Stephens, Jr. (Alumni Distinguished Service Professor), Ph. D. Johns Hopkins; T. D. Ungs, Ph. D. Iowa; D. M. Weborn, Ph. D. Texas.

Associate Professors:
R. B. Cunningham, Ph. D. Indiana;
J. W. Dodd, Ph. D. Tulane; G. C. Evans, Ph. D. Columbia; M. R. Fitzgerald, Ph. D. Oklahoma; W. Fierman, Ph. D. Harvard;
F. K. Freeman, Ph. D. Wisconsin; M. M. Gant, Ph. D. Michigan State; R. A. Gorman, Ph. D. New York; R. L. Peterson, Ph. D. Yale;
T. McN. Simpson, III, Ph. D. Johns Hopkins.

Assistant Professors:

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

United States Government and Politics:

Comparative Government and Politics:
311, 355, 356, 452, 454, 458, 460, 461, 463 and 464

International Relations:
365, 366, 370, 455, 489 and 470

Political Theory: 374, 475 and 476

Honors in Political Science: 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 normally is a two year program. Political Science 101, 107 and 102 are prerequisites to the major which consists of thirty-six hours, Political Science 301, 387-388, 394, and 21 additional hours numbered 300 and above. These 21 hours must include at least one course in each of four areas of the discipline: United States Government and Politics/Public Administration; Comparative Government and Politics; International Relations; and Political Theory. To graduate with Honors in Political Science, the student must have a minimum GPA of 3.5 in Political Science, and a minimum cumulative GPA of 3.0.

Major in Political Science with a Concentration in Public Administration: Students majoring in Political Science who wish to prepare for a career in the public service may select to follow the concentration in Political Science. Political Science 101 or 107 and 102 and Economics 201 are prerequisites to a major in Political Science with a concentration in Public Administration. Corequisite courses are Mathematics 121 and 122 and Accounting 201 and 202. Majors must earn a "C" or better in prerequisite and corequisite courses. The concentration consists of 24 hours of upper division course work in Political Science and 12 hours of upper division course work in Economics. In Political Science, students must include one course in each of the four fields of Political
Science: American Government and Politics/Public Administration, Comparative Government and Politics, International Relations, and Political Theory. Students must also take Political Science 340, 440, 441 and 442. In Economics students must take Economics 311, 471, and 472.

**Psychology**


Assistant Professors: L. Beevers-Laurence, Ph. D. Tennessee; W. Berez, Ph. D. Tennessee; L. M. Coleman, Ph. D. Harvard; J. W. Erickson, Ph. D. Tennessee; L. T. Laurence, Ph. D. Tennessee; R. E. Levey, Ph. D. California School of Professional Psychology; F. M. Furrer, Ph. D. Case Western Reserve; M. N. Nash, Ph. D. Ohio; P. F. Watrous, Ph. D. Tennessee; M. H. Waugh, Ph. D. Florida.

**Major:** Psychology 110 or 117 is prerequisite to a major consisting of 36 credit hours: (1) Psychology 210 or 220; (2) Three basic courses chosen from the following: 300; 310; 320; 330; 360; (3) Three courses on research, quantitative methods, and their application: Psychology 385 (or equivalent and 395), plus one of the following: 396, 399, 445, 469, 459, or 489; (4) Two upper-division courses chosen from the following: 400, 410, 420, 430, 440, 450, 467, 470, 480, 496; and (5) Three elective courses in Psychology, including at least two courses numbered 400 through 496.

For students who plan to seek graduate training in Psychology: Applicants to most graduate programs in Psychology are expected to take the Graduate Record Examination in Psychology by December of the year preceding the year they plan to graduate. The Psychology Department recommends that a prospective graduate student complete as many of the requirements for the major as possible before taking the examination. In addition to the minimum requirements for the major, the following courses are strongly recommended for prospective graduate students in psychology: one year of Biology or Zoology, one year of Calculus, one course in Computer Science; three or four additional Psychology courses chosen from 400, 410, 420, 430, 440, 445, 450, 461, 470, 480, 496.

**Minor:** Consists of 110 or 117; 210 or 220; 395 plus 12 additional upper-division hours.

**Religious Studies**

Professors: C. H. Reynolds (Head), Ph. D. Harvard; F. S. Lusby, B. D. Colgate (Rochester); D. L. Dungan, Th. D. Harvard; W. L. Humphreys, Th. D. Union; D. E. Linge, Ph. D. Vanderbilt; R. V. Norman, Jr. (Vice Provost), Ph. D. Yale.

Associate Professors: J. L. Fitzgerald, Ph. D. Chicago; M. L. Leerverting, Ph. D. Harvard.

Assistant Professor: R. I. Hackett, Ph. D. Aberdeen

Adjunct: J. D. Hodges, Ph. D. Chicago; L. M. Tober, Ph. D. Vanderbilt.

**Major:** Religious Studies 211 is recommended as a preliminary course for each of the two concentrations available. The basic concentration is designed to assure that students attain skills to analyze and interpret religious phenomena in different cultures and in different historical periods, including how sacred texts and traditions, and interpretations of critical reasoning, inform and are informed by religion. The basic concentration consists of at least 24 hours of religious studies courses at the 300 level or above, including one course from each of the first five categories listed below, and two courses from category six: (1) The roots of western religion, 311, 321, or 322; (2) religion and culture in South Asia, 374 or 376; (3) religion and culture in East Asia. 379 or 383; (4) religion and culture in the United States, 351 or 352; (5) critical thinking about religion, 301, 305, 342, or 371; and (6) two 400 level seminars on methods of interpreting religious phenomena, at least one of which must be 499. The remaining 3 hours which complete this major shall not include related language courses.

As an alternative to the basic concentration, a student-initiated concentration is available for students with special educational needs, such as those who intend to enter law, medicine) which recommends a specific course of undergraduate study. A faculty member in religious studies will assist a student to formulate this major consisting of at least 27 hours of credit at the 300 level or above, including 499. Up to 9 hours in this major may be taken in approved courses from other programs or departments in the College of Liberal Arts. Students whose vocational goals would best be served by such a major may consult with a faculty member in the department, who will submit any specific proposal to the faculty in religious studies for approval.

Further details on the major and on department courses are available in the department office, located in 501 McClung Tower, or from any member of the religious studies faculty.

**Minor:** Fifteen hours of courses at the 300 level or above, not including related language courses. It is recommended that students Minor in religious studies discuss their program with a member of the department faculty.

**Romance Languages**

Professors: John B. Romeike (Head), Ph. D. Vanderbilt; P. E. Barrette, Ph. D. California (Berkeley); C. W. Cobb, Ph. D. Tulane, J. Elliott, M. A. Illinois; W. H. Hoffman, Jr., Ph. D. Florida State; T. B. Irving (Emeritus), Ph. D. Princeton; F. D. Maurino (Emeritus), Ph. D. Columbia; C. R. M. Pinsky (Emeritus), Ph. D. California (Berkeley); M. P. Peterson, Ph. D. Kentucky; A. M. Vazquez-Bigi, Ph. D. Minnesota; G. E. Wade (Emeritus), Ph. D. Ohio State; A. H. Wallace, Ph. D. North Carolina; Y. M. Washburn, Ph. D. North Carolina.

Associate Professors: W. F. Byess (Emeritus), Ph. D. Wisconsin; E. J. Campion, Ph. D. Yale; R. M. E. DeRycke, Ph. D. Illinois; D. M. DiPuccio, Ph. D. Kansas; M. H. Handelman, Ph. D. Florida; K. D. Levy, Ph. D. Kentucky.

Assistant Professors: A. S. Allen, Ph. D. California (Berkeley); Charlotte G. Cox (Emeritus), M. A. Tennessee; C. K. Duncan, Ph. D. Illinois; Margaret Millier, Austin; F. Perez-Pineda, Ph. D. Penn State; C. V. Rogers, Ed. D. Georgia; B. S. West, Ph. D. North Carolina; Paula Wilson (Emeritus), M. A. Tufts.

Instructor: M. T. Rabot, Cert. de Lic. Poitiers.

**French Major:** Consists of 27 hours in courses numbered 311 and above. All majors must have the following courses (or their equivalent with consent of the department): 311-312, 313; 341 or 342 or 345; 421; 422; 440; 3 hours of language oriented or civilization courses at the 300 or 400 levels. Literature concentration students must also have 6 hours of literature at the 400 level, 3 hours of which must be either 410, 415, 416, or 414.

Language concentration students must also have 9 hours of language-oriented or civilization courses at the 300 or 400 levels.

**French Minor:** The minor consists of 18 hours in courses numbered 311 and above distributed accordingly: 311-312; 313; 341 or 342; 421; plus 3 hours of electives at the 300 or 400 levels.
Italian Major: Consists of 27 hours in courses numbered 311 and above. All majors must take 311, 312, 341, 342, and 401.

Italian Minor: Consists of 18 hours in courses numbered 311 or above. Students pursuing a minor must consult with a departmental advisor.

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

Spanish Major: Consists of 26 hours in courses numbered 311 or above. The following are required: 311; 312; 421; 422. Students must also have a minimum of 3 hours of civilization, either 431 or 471; a minimum of 6 hours of conversation and composition from 323, 324, 423 or 424; and a minimum of 6 hours of literature from 432, 433, 435, 436, 450, 472, 473, 474, 479. Majors are encouraged to take as many hours as possible, especially the surveys, 435-436 and 473-474. Students must also take 459 and 460.

Spanish Minor: Consists of 18 hours in courses numbered 311 or above, including 311 and 312; 422; one course in Conversation and Composition from among the following: 323, 324, 423, 424; and the remaining courses to be chosen among conversation and composition, civilization, phonetics, or literature. Students pursuing a minor are strongly advised to consult with a departmental advisor.

Courses which are the equivalents of the foregoing may be substituted with the consent of the department. Courses in Spanish literature in English translation, however, may not be counted toward either a major or minor.

Placement Examination: Students who have had two or more year’s work in French, Italian, or Spanish in high school or one year’s work in another college should register for French 111 or Italian 111. During the first week of the semester a placement test will be given, and students will be advised if a change in registration is indicated.

Proficiency Examinations: Students who have acquired a knowledge of French, Italian, or Spanish through private study, tutoring, residence in foreign countries, or the like should initiate a request for a proficiency test in the Office of the Dean of Admissions and Records. A student earning a grade of C or better on such a test will receive credit for a limited number of courses. Superior students are encouraged to proceed as rapidly as their achievement permits.

Russian
See Germanic and Slavic Languages.

Russian and East European Studies
See Cultural Studies.

Sociology

Professors:
T. C. Hood (Head), Ph. D. Duke; D. M. Betz, Ph. D. Michigan State; J. A. Black, Ph. D. Iowa; D. J. Champion, Ph. D. Purdue; D. Clelland, Ph. D. Michigan State; D. W. Hastings, Ph. D. Massachusetts; D. R. Ploch, Ph. D. North Carolina; N. E. Slover, Ph. D. Illinois (Urbana); S. E. Wallace, Ph. D. Minnesota.

Associate Professors:
Robert D. Bullard, Ph. D. Iowa State; S. Kurth, Ph. D. Illinois (Chicago); R. G. Perrin, Ph. D. British Columbia; K. D. Van Liere, Ph. D. Washington State.

Assistant Professors:

Instructor:
D. K. Harris, M. A. Tennessee.

Major: Prerequisites to the major are six lower-division hours in sociology which must include either 100 or 110, followed by 200. The major consists of 24 upper-division hours in sociology and must include 321 and 331. Students should complete these two courses by the end of their junior year.

Concentration in Criminal Justice: All prerequisites and upper-division courses required for general majors are required for this concentration. In addition, the concentration consists of 18 hours of upper-division sociology as follows: 350, 351, 451, 459, 492, and one course selected in consultation with advisor.

Minor: The minor consists of 12 hours in sociology which must include 321 and 331. Prerequisites to the minor are six lower-division hours in sociology which must include 200.

College Scholars Honors

Director: Dr. Harry C. Jacobson

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 research, scholarship or creative imagination. College Scholars 498 is the appropriate course to use to receive credit for this work.

Spanish
See Romance Languages.

Speech Communication

Professors:
L. W. Lester (Head), Ed. D. Tennessee; M. L. Ambrester, Ph. D. Ohio; F. D. Julian, Ph. D. Tennessee.

Associate Professors:
J. E. Buckley, Ph. D. Northwestern; N. C. Cook, M. A. Alabama; R. W. Glenn, Ph. D. Northwestern.

Assistant Professor:
R. S. Ambler, Ph. D. Ohio State.

Major: Speech Communication 100 is prerequisite to a major which consists of Speech Communication 270, 300, 310, 330, either 350 or 460, and 12 additional hours in Speech Communication courses, of which 9 must be in courses numbered 300 and above. No more than 5 hours from Speech Communication 200, 271-272, 371-372, 491, 492, and 493 may be counted toward the major. Students interested in broad applications (e.g., teacher certification or religious training) may complete their required hours from a wide range of Speech Communication courses. In addition, specially designed options are available in (1) Interpersonal/ Organizational Communication and in (2) Public Communication. Students should inquire in the Department Office for information and recommended advisors.

Minor: Speech Communication 100 is prerequisite to a minor which consists of 18 additional hours in Speech Communication courses numbered 200 or above. Additional information for planning minor areas of focus which will complement a wide variety of majors in other Liberal Arts fields as well as in other colleges is available in the Department Office.

Theatre

Professors:
R. M. Cothran, Jr.; R. C. Field, M. A. Miami (Ohio); J. F. Fields (Emeritus), M. A. Ohio State; P. Garvey, M. A. Cambridge; A. J. Harris, Ed. D. Tennessee; N. W. Hanshaw, Ph. D. Pittsburgh; R. R. Mashburn, Ph. D. Florida State; P. L. Soper (Emeritus), Ph. D. Cornell.

Associate Professors:

Assistant Professors:

Major: Theatre 100 is prerequisite to a concentration which consists of (1) Theatre 210, 211, 220, 245, 250, 260, 310, and 311; (2) 12 additional hours of Theatre courses numbered 200 and above, 8 hours of which may be in cognate areas approved by the
Statistics

See faculty list on page 59.

Liberal Arts 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.

Major: (a) Required courses consist of 19 hours from Mathematics 241, 251; Statistics 251, 252, 411; Statistics 471 or Mathematics 323 or 425; (b) Statistics electives consist of 6 hours from upper-division statistics courses not listed in part (a); and (c) Electives consist of 9 hours to be selected from no more than two of the following groups: Computer Science 111, 331, 401, 403; Management 481; Mathematics 323, 404, 421, 425, 445-546, 447-448, 471-472. 

Minor: (a) Required courses consist of 13 hours from Mathematics 241, 251; Statistics 251, 252; and (b) Statistics electives consist of 6 hours from upper-division statistics courses not in part (a) of the minor.

Women's Studies

See Cultural Studies.

Zoology

Professors:
A. C. Echternacht (Head), Ph. D. Kansas; R. M. Bagby, Ph. D. Illinois; D. L. Bunting, II, Ph. D. Oklahoma State; J. G. Carlson (Emeritus), Ph. D. Pennsylvania; D. A. Etter, Ph. D. Minnesota; B. Hochman, Ph. D. California (Berkeley); E. T. Howley, Ph. D. Wisconsin; K. W. Jeon, Ph. D. London (England); D. C. Joy, Ph. D. Oxford (England); J. R. Kennedy, Ph. D. Iowa; J. N. Liles, Ph. D. Ohio State; J. A. MacC Abe, Ph. D. California (Davis); S. L. Pimm, Ph. D. New Mexico State; S. E. Riecheri, Ph. D. Wisconsin; L. E. Roth, Ph. D. Chicago; C. A. Shivers, Ph. D. Michigan State; J. T. Tanner (Emeritus), Ph. D. Cornell; H. G. Welch (Emeritus), Ph. D. Florida; G. L. Whitson, Ph. D. Iowa.

Associate Professors:
K. D. Burnham, Ph. D. Iowa; T. T. Chen, Ph. D. Florida; D. J. Fox, Ph. D. Johns Hopkins; N. B. Greenberg, Ph. D. Rutgers; M. A. Handel, Ph. D. Kansas State; G. F. McCracken, Ph. D. Cornell; M. L. Pan, Ph. D. Pennsylvania; G. L. Vaughn, Ph. D. Duke.

Assistant Professors:
C. Boake, Ph. D. Cornell; J. Drake, Ph. D. Purdue; R. Ganguly, Ph. D. Nebraska; L. Rome, Ph. D. Harvard.

Research Associate Professors: T. Ashley, Ph. D. Florida State; R. Tindall, Ph. D. Pennsylvania.

Research Assistant Professor:
J. L. Gittleman (Distinguished Scientist, Science Alliance Center of Excellence), Ph. D. Sussex (England).

Prerequisites to upper division courses:
Biology 110-120 or Biology 150 or Zoology 117-118 are prerequisites for all upper division courses (with the exception of 480). Additional prerequisites are included with course descriptions.

Major: Prerequisites to the major are Biology 110-120 or 150 or Zoology 117-118 and Chemistry 120-130. Corequisites are Mathematics 151-152 or 141-142 and a year sequence in physics (except 141-142). Physics 221-222 are recommended and are required for admission to some professional schools.

The major consists of Biology 210-220-230, 18 hours of upper division Zoology courses and two semesters of chemistry or biochemistry at the 200 level or above. (Acceptable second year chemistry sequences include: Chemistry 350-360-369; Chemistry 350 and 310-319; Chemistry 350 and Nutrition 200; Chemistry 350, 431 and Biochemistry 310; Chemistry 310-319 and Biochemistry 310). All Zoology majors are required to take at least 4 hours at the 400 level, including at least one laboratory or field course. The upper division Zoology courses must include at least one course from three of the following four areas: (1) Cellular and Developmental Biology (330, 420); (2) Physiology (440, 445); (3) Animal Diversity (350, 360); and (4) Evolution and Behavior (450, 455).

Minor: Prerequisites to the minor are Biology 110-120 or 150 or Zoology 117-118 and Chemistry 120-130 or 100-110. The minor consists of Biology 210-220-230 and 9 hours of upper division Zoology.

Note: Certain Zoology courses require organic chemistry or other prerequisites; consult the catalog description for each course.

Many courses in this department are offered only in specific semesters. Students should plan in advance the proper sequence. Information on the semesters a course is to be offered is available in the departmental office.