The College of Architecture and Design is concerned with the design of the physical environment, from the scale of furniture to the scale of the region. The study of the physical environment includes many inter-disciplinary connections which the college tries to promote. Within the University of Tennessee, all students in the College of Architecture and Design are part of a smaller academic community that prides itself on a faculty dedicated to teaching.

The College of Architecture and Design includes three basic programs of study, at the undergraduate and graduate level:

- **Bachelor of Architecture**: A professionally accredited five year undergraduate first professional degree program of study.
- **Bachelor of Science in Interior Design**: A professionally accredited four year undergraduate program of study.
- **Master of Architecture**: A professionally accredited first professional degree for students from any academic background. This three year course of study is described in the Graduate Catalog.

**FACILITIES**

The award winning Art and Architecture Building, completed in 1981, provides one of the finest facilities in the country for architecture students. The building is home to art, architecture, and interior design students who occupy extensive studio space surrounding an open Commons space, filled with natural light. A cafe, supply store, and three auditoriums open onto the Commons as well. Changing art and architecture exhibits are installed in the Ewing Gallery, the Exhibition Wall, the Commons, and the Sculpture Garden. Students in the College have an extensive woodshop and modelmaking shop, a drawing studio, an experimental construction platform, and presentation spaces. Students also use a digital classroom, a 24/7 computer lab, and an Image Center with extensive printing capabilities.

Throughout the design studios, over 100 computer ports are provided for students’ laptop computers. The building itself is a model of how architectural space can promote a sense of community among the artists, architects, and interior designers within the larger University community.

Interior Design students work together in design studios, located in the Art and Architecture Building. In their studies, students take advantage of the program’s computing facilities, the Resource Library with extensive material samples and product information, and the well equipped wood shop for furniture construction and model building.

**FRESHMAN ADMISSION REQUIREMENTS**

Due to the limited size of the design studios and College resources, admission to the College of Architecture and Design is selective, based on test scores, high school record, student application, and portfolio. The College will typically accept applicants with a total of 60 or above using the formula of the high school grade point average times 10, plus the ACT composite score (or the ACT equivalent of the SAT). The College normally refuses applications with less than a high school GPA of 2.7 or with ACT scores below 23 (or SAT equivalent). In making its decisions, the College also requires a portfolio from applicants (see information below). Applicants will be informed of their status by April 15 of each year.

**REQUIRED PORTFOLIO**

All applicants must submit a portfolio of personally produced graphic or visual work. The purpose of the portfolio is to demonstrate visual talent and abilities.

Aim for quality rather than quantity in selecting work: An ideal number would be eight to ten examples of personal work. All work shall be neatly assembled in an 8 1/2” x 11” portfolio or organized folder/notebook. Submittals not adhering to this size requirement will not be reviewed. As a general recommendation, use high quality (100% rag) paper and high quality drawing pencils (HB or F) or other media. The portfolio must include at least three items:

- a freehand drawing of a stair,
- a freehand drawing of a collection of leaves, and
- a freehand drawing of a bicycle.

The following guidelines have been established to assist applicants in selecting additional samples of personal work for the portfolio:

- Include other examples of drawings, artwork, photography, or anything else which may demonstrate visual abilities. Graphic, architectural or industrial design work may also be included.
- Include work for course assignments (if any) as well as work completed independently.
- Avoid extensive submissions of mechanically drafted drawings or computer drawings, unless these are illustrative of a design project. These must be submitted in an 8 1/2 x 11” format.
- Submission of the original item is not necessary: inexpensively reproduced drawings, photographs, reductions, and photocopies are acceptable. Digital design work must be submitted as a hard copy. (Please, no slides or disks.)
- Label all work with name, date when work was executed, and any other relevant information. If the item was a course assignment, identify the course and summarize the assignment.
- The cover or cover page of the portfolio should include the student name, address, phone number, and the program to which the application is made (Architecture or Interior Design).

The 8 1/2” x 11” portfolio should be sent, with the application, to the Office of Admissions. It will be reviewed by members of the College Admissions Committee. In addition, include a self-addressed stamped mailer for the return of the portfolio. Otherwise, portfolios will not be held nor returned.
DEADLINES FOR APPLICATION

Deadlines for application to the College of Architecture and Design coincide with those set forth by the University of Tennessee. For full consideration, all students, including transfer students, must apply by January 15 for the fall semester. Late applications will be reviewed on a space-available basis.

ADVICE TO HIGH SCHOOL STUDENTS

High school students are encouraged to take physics and calculus. Students enrolled in Advanced Placement courses should take the national AP exam. Students are also strongly encouraged to take freehand drawing and/or art courses as a way to develop visual ability. Extensive drafting, mechanical drawing or architecture courses based on drafting are not recommended.

TRANSFER STUDENTS

It should be noted that due to the strong sequential character of the curriculum, entry in any semester other than fall may be difficult. A course of summer study is usually offered which would allow transfer students to proceed to the second year course of study for the fall. Transfer students are required to submit a portfolio and to have at least a 2.3 grade point average to be considered. Sophomores and juniors who are interested in applying to the architecture program may want to consider finalizing their bachelors courses of study and applying to the first professional Master of Architecture program in the College. Transfer students should apply by January 15, and should discuss their options with the Director of Student Services.

FINANCIAL CONSIDERATIONS

As the only accredited architecture program in the State of Tennessee, the Architecture program is fortunate to have many generous scholarships funded by alumni and by different components of the construction industry. As a result, numerous awards, prizes, scholarships, traveling stipends, fellowships and internships are available to academically motivated students. Alumni actively give support by participating in activities, by extensive donations to scholarship and enrichment funds, and by developing intern programs for student employment. A full listing of available scholarships is included in this catalog.

The Interior Design Program has a number of generous scholarships funded by alumni and by different components of the construction industry. The University and the College provide many work study opportunities for students to earn supplemental income on campus. Self-disciplined students who are taking a full academic load should plan a work schedule not to exceed twelve hours per week.

In addition to course textbooks, students are expected to purchase supplies and equipment for various design projects. In the second year of both the Architecture and Interior Design programs, students are very strongly recommended to purchase a lap top computer for coursework. Families should factor this into their educational budget.

FOR NON-PROFESSIONAL MAJORS

In order to promote interdisciplinary involvement, students from other disciplines are welcome to take many classes in the College. Arch 111, “Architecture and the Built Environment”, is recommended as a good general introduction. Non-architecture students are also welcome in the architectural history sequence of Arch 211, 212, and 213. Most of the 400 level electives do not have prerequisites and are open to upper level students with an interest in the course topic. Arch 425 “Special Topics” varies by semester, but is often of interest to a broad cross section of the University student population. Non-architecture majors should meet with the Director of Student Services in order to register for these upper-level courses. Due to space limitations, design studio courses are open only to architecture students.

ACADEMIC POLICIES

ADVISING

Students must plan their schedule in consultation with an assigned faculty advisor. In addition, entering Architecture students will be assigned to an upper-class student who will serve as a peer advisor. The Director of Student Services is available to answer additional questions and to oversee questions related to admissions, advising, and career placement.

All academic policies of the College of Architecture and Design are summarized in the Student Handbook, published each year by the College.

COURSE LOAD

The average course load in any semester is 17 credit hours. The minimum which may be taken by full-time students is 12 hours. The maximum which may be taken without approval of the Dean is 19 hours.

SATISFACTORY/NO CREDIT COURSES

Courses that are a part of the specific requirements of the College cannot be taken as Satisfactory/No Credit.

Credit hours over and above the specific graduation requirements may be taken S/NC. A student who desires to take a course S/NC should indicate this at the start of registration. Courses evaluated as “Satisfactory” will count as hours toward graduation but will not be calculated in the student’s GPA.

SCHOOL OF ARCHITECTURE

Professors:


Associate Professors:


Assistant Professors:

M. DeKay, M. Arch. University of Oregon; G. Dodds, M. Arch. University of Pennsylvania; B. Klinkhammer, M. Arch. RWTH; E. Stach, M. Arch. RWTH (Aadren); A. Thurlow, M.S. Arch. Columbia; S.M. Ware, M.F.A. Tennessee.

THE STUDY OF ARCHITECTURE

Architecture involves the study and transformation of the built environment, from the scale of furniture to the scale of the city. The goal of an architectural education is to develop a synthetic thought process of critical thinking and creative problem solving. Creative thinkers must address all aspects of the built environment, in its cultural, social, and ethical context.

As a professional discipline, architecture spans both the arts and the sciences. Students must have an understanding of the arts and humanities, as well as a technical understanding of structures and construction. Skills in communication, both visual and verbal, are essential. While knowledge and skills must be developed, the School strongly emphasizes a process of critical thinking and creative activity.

PROFESSIONAL ACCREDITATION

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes two types of degrees: the Bachelor of Architecture and the Master of Architecture. A program may be granted a five-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards.

Masters degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree. The University of Tennessee offers both the five year Bachelor of Architecture and a three year Master of Architecture for students with an unrelated bachelor’s degree.

The four year pre-professional degree, where offered, or other “architectural technology” degrees are not accredited by NAAB. The pre-professional degree is useful for those wishing a foundation in the field of architecture, as preparation for either continued education in a professional degree program or for employment options in architecturally related areas.
CURRICULUM

The curriculum for the Bachelor of Architecture degree includes a combination of required and elective courses which offers the student both a solid professional program of study and a sound general education. While the majority of courses are designated as required, students may use the available architecture and general electives to broaden their education and to expand their knowledge in areas of personal interest.

All students studying for a Bachelor of Architecture degree will include the following requirements in their course of study. For any additional School of Architecture requirements, the student should refer to the Student Handbook of the School of Architecture and the student’s faculty advisor.

<table>
<thead>
<tr>
<th>Hours Credit</th>
<th>First Year</th>
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<tbody>
<tr>
<td></td>
<td>Architecture 101, 102</td>
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<td></td>
<td>Architecture 121, 122</td>
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<tr>
<td>1</td>
<td>English 101, 102</td>
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<tr>
<td>1</td>
<td>Mathematics 125 or Elective</td>
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<tr>
<td>2Electives</td>
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<tr>
<th>Hours Credit</th>
<th>Second Year</th>
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<tbody>
<tr>
<td>4</td>
<td>Architecture 211, 212</td>
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<tr>
<td>1</td>
<td>Architecture 231</td>
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<tr>
<td>1</td>
<td>Architecture 232</td>
</tr>
<tr>
<td>1</td>
<td>Physics 101, 135, 137, or 161</td>
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<td>2</td>
<td>Electives</td>
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<thead>
<tr>
<th>Hours Credit</th>
<th>Third Year</th>
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<tbody>
<tr>
<td>1</td>
<td>Architecture 311, 312</td>
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<tr>
<td>1</td>
<td>Architecture 331, 332</td>
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<tr>
<td>1</td>
<td>Architecture 341, 342</td>
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<tr>
<td>1</td>
<td>Architecture 371, 372</td>
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<table>
<thead>
<tr>
<th>Hours Credit</th>
<th>Fourth Year</th>
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<tbody>
<tr>
<td>1</td>
<td>Architecture 431</td>
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<tr>
<td>1</td>
<td>Electives</td>
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<thead>
<tr>
<th>Hours Credit</th>
<th>Fifth Year</th>
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<tbody>
<tr>
<td>1</td>
<td>Architecture 462</td>
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<tr>
<td>1</td>
<td>Architecture 480</td>
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<tr>
<td>1/Design Course Option</td>
<td>12</td>
</tr>
<tr>
<td>2</td>
<td>Electives</td>
</tr>
</tbody>
</table>

Total: 171 hours

1Students are not allowed to enroll simultaneously in two of these design courses.
2Electives consists of: 6 hours in Social Sciences, 6 hours in History, 12 hours in Architecture, 15 hours outside School of Architecture, 15 hours additional electives. These may be taken in any order of preference.
3Two courses from the following Design Studio Options: Architecture 481, 482, 483, 484, 485, 486, or 489. 472 may be taken at any time in the last three semesters.
4Students are exempt from Mathematics 125 with a score of 25 or higher on the calculus readiness test.

PROGRESSION

Students must maintain an overall 2.3 grade point average by the end of 32 hours in order to maintain “full status” in the program. Delinquent students will be put on “temporary status” for one semester. These students will have one semester to raise the overall GPA to a 2.3. If the GPA is not brought up to 2.3, the student will be dropped from the architecture program.

Exceptions to academic policies may be made through petition, reviewed by the school’s Academic Standards Committee.

Students may advance to second year design (271) with satisfactory completion of the first year program (including math) with a grade point average of 2.3. Students may advance to third year design (371) with the completion of all first and second year courses. For 371 and all subsequent design courses, students must maintain a design grade point average of 2.3. Students must repeat the previous level design course(s) until the average is raised to 2.3. Students may submit a portfolio of design work and petition for an exception.

300 and 400 level electives are open to all students who have the necessary prerequisites.

SPECIAL PROGRAMS

The School of Architecture is committed to providing a variety of meaningful learning opportunities beyond the classroom itself. Lectures, panel discussions, films, symposia, and exhibits are all important components of a lively academic environment. Within the regular course of study, students have an opportunity to explore diverse aspects of architecture related to urbanism, historic preservation, and community service. Since its founding, the School has always sponsored a foreign studies opportunity.

EXHIBITS

The Ewing Gallery, in the Art and Architecture Building, hosts numerous exhibits related to art and architecture. Adjacent to the Commons Space is an Exhibition Wall for more informal exhibits of students, faculty, and visiting artists and architects. In the Commons itself are more spontaneous exhibits of current student work.

FIELD TRIPS

Throughout the year, various field trips are organized by the School. The purpose of the field trips is to expose students to major cities with important architecture and to works of architecture that may not normally be open to the general public.

LECTURES, FILMS, AND VIDEOS

The Robert B. Church Memorial Lecture Series is an annual endowed gift in memory of a former dean of the School. Over the years, the Church lecture series has allowed the School to bring prominent architects to Tennessee. The regular lecture series features architects, artists, theorists, planners, and historians who discuss their work and ideas. Films and videos also introduce students to a wide range of issues related to architecture, art, urbanism, and culture. Every spring, General Shale Corporation hosts a lecture as part of its Annual Architecture Spring Thing (TAAST), a traditional series of events organized by the students.

PUBLICATIONS

Students in the School periodically publish The University of Tennessee Journal of Architecture. The Journal has a different theme each year, but typically includes articles related to current thinking in the field, as well as student work.

THE PROFESSION’S PARTICIPATION IN THE SCHOOL

As the only accredited architecture program in the state, the School of Architecture tries to maintain a close relationship with the architectural community of the city, state, and region. Professionals regularly come to the school to attend and respond to student presentations, to conduct workshops, to participate in School events, and to interview graduating students. Every spring, the architecture community of Knoxville attends an exhibit of fifth year work, where students have the opportunity to discuss...
their Comprehensive Design Project with practicing architects.

Architecture is a broad field of study, with many diverse ways for individuals to become involved in the profession. The profession itself is diversifying and changing rapidly, due to changing financial structures, increasing specialization, expanding liability, and evolving electronic technology. Students are strongly urged to visit and work in different architectural offices, in order to acquire a better sense of the profession and career commitment.

**INTERIOR DESIGN**

**Professors:**
A. DeLong, Ph.D. Pennsylvania State;
J. Rabun, Ph.D. Tennessee.

**Assistant Professor:**
D. Harris, Ph.D. Texas A&M.

In 1996, the Interior Design Program moved from the College of Human Ecology to the College of Architecture and Design. The University of Tennessee has a unique opportunity to offer a complementary course of study for both architecture and interior design students. After a unified first year of study, both architecture and interior design students pursue separate professional programs. However, students in both interior design and architecture can pursue electives of mutual interest, as well as participate in an upper level joint studio. In some cases, graduates from the Interior Design program may receive advanced standing in the Master of Architecture program.

**THE STUDY OF INTERIOR DESIGN**

Students interested in Interior Design are encouraged to learn about the fundamental differences between licensed Interior Designers and interior decorators. Interior Designers are qualified to deal with complex design challenges involving extensive interior construction and technical considerations related to design issues. Interior Designers are able to meet code issues involving fire, electricity, structure, occupancy and materials. Interior Designers are educated to understand how the design of furnishings and interior space can affect a general sense of well being. On the other hand, interior decorators are primarily concerned with finishes and furniture within pre-existing interior spaces. Interior decorators typically work as consultants in the retail environment. Interior Designers may have their own design practice, or may work as a design consultant for product manufacturers.

**PROFESSIONAL ACCREDITATION**

Most states require that an individual intending to become a licensed Interior Designer hold a professionally accredited degree. The University of Tennessee offers a four year Bachelor of Science in Interior Design. This is a professionally (FIDER) accredited interior design degree.

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**CURRICULUM**

The Interior Design curriculum is a rigorous course of study which combines technical courses, design studio courses, humanities, and a wide choice of electives. Through course work and field study experiences, students develop specialized problem solving skills and knowledge for the analysis, planning and design of interior architectural environments. They apply the use of lighting, color, mechanical systems, and furnishings as they design spaces for both residential and commercial settings. Beyond the professional core, students are encouraged to pursue interests related to horticulture, theater design, historic preservation, business, or other personal interests.

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
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<tbody>
<tr>
<td>Architecture 101, 121, 122</td>
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<tr>
<td>Architecture 171, 172</td>
<td>7</td>
</tr>
<tr>
<td>Interior Design 141, 171</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics 119</td>
<td>3</td>
</tr>
<tr>
<td>English 101, 102</td>
<td>6</td>
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<tr>
<td>Social Science Elective</td>
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**Second Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
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</thead>
<tbody>
<tr>
<td>Interior Design 271, 272, 231, 261, 200</td>
<td>20</td>
</tr>
<tr>
<td>Interior Design 221</td>
<td>2</td>
</tr>
<tr>
<td>Art 172, 173</td>
<td>6</td>
</tr>
<tr>
<td>Physics 161 and one other</td>
<td>6</td>
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<tr>
<td>Natural Science</td>
<td>6-7</td>
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**Third Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
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<tbody>
<tr>
<td>Interior Design 371, 372, 311, 312, 431, 360</td>
<td>24</td>
</tr>
<tr>
<td>Architecture 342</td>
<td>4</td>
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<tr>
<td>TS 220</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
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<tr>
<td>Summer (ID 420)</td>
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**Fourth Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
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<tbody>
<tr>
<td>Interior Design 400, 471, 472, 480</td>
<td>16</td>
</tr>
<tr>
<td>Elective (Art)</td>
<td>3</td>
</tr>
<tr>
<td>History Elective</td>
<td>3</td>
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<tr>
<td>Elective</td>
<td>5</td>
</tr>
<tr>
<td>Electives (Business, Ornamental Horticulture, Theatre, and Urban Studies)</td>
<td>3</td>
</tr>
<tr>
<td>Elective (Professional Elective)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 135-136 hours

1Select 3 hours from Psychology, Sociology, Anthropology, or Economics 201 (if you plan to take Business as an elective). Suggested courses: Anthropology 110, 130; Sociology 110, 120, Psychology 110, 210, 370; Economics 201.
2Select Physics 161 (required) and one other science, such as Astronomy 151, Botany 110, Biology 101, Chemistry 120, Geology 101.
3Select any Art, Art Ceramics, Art Design/Graphic, Art Drawing, Art Media/Photography, Art Painting, Art Printmaking, or Art Sculpture.
4Select any History course.
6Select from Interior Design or approved Architecture courses.

**PROGRESSION**

Upon admission to the University of Tennessee and the College, students may begin the ID major. Progression into third year occurs after completion of ID 272.

For progression into third year, students must meet the following criteria:

1. Cumulative grade point average of 2.3 or greater.

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**SPECIAL PROGRAMS**

**REQUIRED SUMMER INTERNSHIP**

All interior design students are required to have a professionally based summer internship. The faculty will help students find appropriate placement, as well as monitor the student's progress in the internship.

**PROFESSIONAL COMMUNITY’S INVOLVEMENT**

As the oldest accredited interior design program in the state, the Interior Design program tries to maintain a close relationship with the interior design community of the city, state, and region. Professionals regularly come to the school to attend and respond to student presentations, to conduct workshops, to participate in school events, and to interview graduating students.

**FIELD TRIPS**

All Interior Design students regularly participate in a variety of field trips to important works of design as well as to Interior Design conventions and product shows.
The central purposes of a liberal education include the encouragement of intellectual tolerance, a dedication to the quest for knowledge as a worthwhile goal in and of itself, and the cultivation of a responsible, creative, individual mind. These qualities enable one to develop an ability to reason and to express oneself clearly, an incentive to absorb emerging knowledge, and a competence to confront the uncertainties of human experience. For the student whose interests and talents lead into research, scholarship, and teaching, a liberal education provides an invaluable foundation. For the individual who enters business, industry, the professions, or government service, it furnishes a broadly useful and well-rounded educational background. For all, it offers the opportunity to share in a rich intellectual heritage, in the adventures of the mind, and in the life of the educated imagination. A liberally educated person is identified not so much by specific knowledge as by quality of mind and by creative response to the challenges of the times. The great universities of the world are so labeled because their faculties have earned the reputation of being renowned scholars. The University of Tennessee has earned such a reputation because of the quality of the research and creative activity of its faculty. The student who studies in the College of Arts and Sciences has joined a community of scholars. To study with such a talented faculty is to experience the best education possible.

The faculty of the College are committed to providing both comprehensive general education and concentrated study in a particular field to all students enrolled at the University of Tennessee. General education offers opportunities to master the basic learning skills necessary to understand a specialized area of study and is essential for the continuation of learning throughout life. Arts and Sciences faculty are also committed to educating students in a discipline. Education with a disciplinary focus prepares students for further study at the graduate level and for careers in business, public service, or any other endeavor. As our world becomes both more specialized and more changeable, the need to find the right balance between general and specialized knowledge becomes essential.

The College of Arts and Sciences is home to a wide array of academic disciplines and inter-disciplinary programs. Such diverse areas of study as Computer Science and Classics, Anthropology, Women’s Studies and Latin American Studies are represented among the twenty-six departments and twelve special programs that compose the College.

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

PROGRAMS OF STUDY

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

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 Arts and Sciences students is 19, exclusive of elective work in ensemble music and physical education. Exceptions to this rule will require approval by the Director of 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 calculated in the student’s grade point average. Satisfactory is defined as C or better work on the traditional grading scale and No Credit is defined as less than C. The following regulations apply:

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 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 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 advisors 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 with prior or concurrent 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 individual departments 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 UT students with approval may enroll for credit. Assistance in identification of and registration in such programs may be obtained through the Programs Abroad Office located in the University's Center for International Education. A third opportunity is through individualized programs that students may pursue under the program number 491. The nature of this work as well as credit for it should be negotiated by students prior to departure with the appropriate Arts and Sciences 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.

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 major or interdepartmental major fields described below.

Individualized Program

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

College Scholars Program

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

Pre-Professional Program

The Pre-Professional Program is offered for those who wish to pursue a more scientifically or professionally oriented program of study. Three programs leading to this degree are offered:

Basic Program

The Basic Program for the 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.

Pre-Professional Program

The Pre-Professional Program is offered for those who wish to participate in the cooperative plus program in business and Arts and Sciences or the elementary and secondary pre-teaching programs. Students in the 3+2 business and Arts and Sciences program take three years of coursework leading to a B.A. in Arts and Sciences, followed by two years of study in the College of Business leading to the M.B.A.

2. BACHELOR OF SCIENCE

The Bachelor of Science degree, offered in selected departments and programs, is designed for students who wish to pursue a career in a specific area. Three programs leading to this degree are offered:

Basic Program

The Basic Program for the B.S. degree contains basic skills and distribution requirements. The specific requirements are as follows:

1. English Composition

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

Students may meet this requirement in one of two ways:

a. By completing six credits in English writing courses, either: (a) English 101 and 102 (English Composition), (b) English 118 (Honors: English Composition) and English 102 (English Composition); (c) English 131 and 132 (Composition for Non-Native Speakers of English). [Students who obtain a grade of A or B in 118 may complete their freshman requirement with 102, or with a sophomore literature course in the English Department, or English 355 Rhetoric and Writing. The sophomore literature course may (if so listed) also be used]

b. By completing six credits in English literature courses, including at least one course in British literature with major emphasis on the period prior to 1800. (Courses on the period 1800 to present should be selected with care so as to avoid redundancy with the above course).

2. Pre-Professional Program

The Pre-Professional Program is offered for those who wish to pursue a career in a specific area. Three programs leading to this degree are offered:

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.

Pre-Professional Program

The Pre-Professional Program is offered for those who wish to participate in the cooperative plus program in business and Arts and Sciences or the elementary and secondary pre-teaching programs. Students in the 3+2 business and Arts and Sciences program take three years of coursework leading to a B.A. in Arts and Sciences, followed by two years of study in the College of Business leading to the M.B.A.

3. BACHELOR OF FINE ARTS

(See School of Art.)

4. BACHELOR OF MUSIC

(See School of Music.)

REQUIREMENTS FOR DEGREES

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

1. All University degree requirements as described in the section on "Academic Policies and Regulations: General Requirements for a Bachelor’s Degree;"

2. A minimum of 124 credit hours;

3. At least 42 credit hours in courses numbered 300 or above;

4. Appropriate work to satisfy basic skill and distribution requirements, counting no course in more than one area. (This is not a requirement in the College Scholars Program);

5. Completion of at least one major (24-40 credits at 200 level or above for B.S. major and 24-37 credits at 200 level or above for B.A. majors); up to 6 hours in the major may be used, where listed, to satisfy basic skills or distribution requirements. Courses used for the major may not be used to satisfy upper level distribution requirements.

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

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

PROGRAMS LEADING TO BACHELOR OF ARTS AND BACHELOR OF SCIENCE DEGREES

The Bachelor of Arts and the Bachelor of Science Degrees share the same program of Basic Skills and Distribution Requirements (except where noted otherwise).

BASIC SKILLS REQUIREMENTS

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

1. English Composition

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

Students may meet this requirement in one of two ways:

a. By completing six credits in English writing courses, either: (a) English 101 and 102 (English Composition), (b) English 118 (Honors: English Composition) and English 102 (English Composition); (c) English 131 and 132 (Composition for Non-Native Speakers of English). [Students who obtain a grade of A or B in 118 may complete their freshman requirement with 102, or with a sophomore literature course in the English Department, or English 355 Rhetoric and Writing. The sophomore literature course may (if so listed) also be used]
toward the Humanities distribution requirement.)

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

(Placement information: Eligibility for English 118 (Honors: English Composition) will be determined by ACT or SAT scores and a placement exam. Selected students will be placed in English 103 (Writing Workshop) based on ACT or SAT scores and may not drop this course without departmental approval. (Details available from the English Department.) NOTE: A student must complete the English Composition requirement prior to enrolling in English courses numbered 200 or higher.)

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

Students may meet this requirement in one of three ways:

a. Completion of the intermediate level sequence of a foreign language. Any one of the following sequences will satisfy the requirement:

- Asian Languages 231-232 Intermediate Chinese I, II
- Asian Languages 251-252 Intermediate Japanese I, II
- Asian Studies 221-222 Intermediate Modern Standard Arabic I, II
- Asian Studies 241-242 Intermediate Modern Hebrew I, II
- Asian Studies 261-262 Intermediate Persian I, II
- French 211-212 Intermediate French or 217-218 Honors: Intermediate French
- German 201-202 Intermediate German
- Greek (Classics) 261 Intermediate Greek: Grammar Review and Readings and 264 Intermediate Readings in Greek
- Portuguese 211-212 Intermediate Portuguese
- Russian 201-202 Intermediate Russian
- Spanish 211-212 Intermediate Spanish;

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

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

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


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

Students may meet this requirement by completion of one of the following courses or by selecting two math courses under Natural Science List B:

- Any course in Mathematics numbered 110 or higher
- Computer Science 100: Introduction to Computers and Computing
- Philosophy 130: Critical Thinking or Philosophy 135: Formal Logic.

**DISTRIBUTION REQUIREMENTS**

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

**PART A: DIVISIONAL DISTRIBUTION REQUIREMENTS**

1. **NATURAL SCIENCE**

A two-course laboratory sequence and an additional two-course sequence that will introduce students to the increasingly important role of science and technology in all aspects of modern life. This requirement will introduce students to the basic discoveries, knowledge and logical organization of scientific disciplines and to development and testing of hypotheses. Laboratory courses will develop skills in experimental tests of hypotheses; lectures will introduce students to the role of scientific methodology, problem-solving and society. Students may meet this requirement by completion of a two-course sequence from list (A) and an additional two-course sequence or package from List A or List B.

**List A:**

- Astronomy 161-162: Introductory Astronomy with Laboratory
- Biology 101-102: Humankind in a Biotic World
- Biology 130: Biodiversity and 140: Organization and Function of the Cell
- Botany 110-120 General Botany
- Chemistry 100: Principles of Chemistry and 110: Introduction to Organic and Biochemistry
- Chemistry 128-129: Honors: General Chemistry
- Geography 131-132: Geography of the Natural Environment
- Geology 101: The Dynamic Earth and either 102: Earth, Life and Time or 103: The Earth's Environments

[Students who earn an A in 101 or a B or better in 107 may take 108; all other students should complete the sequence with 102 or 103.]

**List B:**

- Physics 135-136: Introduction to Physics for Physical Science and Mathematics Majors
- Physics 137-138: Honors: Fundamentals of Physics for Physics Majors

2. **SOCIAL SCIENCE**

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

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

- Anthropology 120: Prehistoric Archaeology, 130: Cultural Anthropology, 382: Principles of Archeology
- Audiology and Speech Pathology 320: Speech and Language Development
- Botany 305: Socio-Economic Impact of Plants
- Economics 201: Introductory Economics: A Survey Course; 207: Honors Introductory Economics
- Human Services 220: Introduction to Human Services
- Linguistics 200: Language, Linguistics and Society
- Music History 310: Introduction to African American Music (Same as African and African-
American Studies 310; 290: Introduction to World Music
Psychosocial Studies 210; Psychosocial Issues in Human Development
Psychology 110: General Psychology; 117: Honors General Psychology; 220: Behavior and Experience: Humanistic Psychology; 360: Social Psychology
Speech Communication 100: Introduction to Speech Communication; 220: Interpersonal Communication; 260: Communication and Society; 330: Group Communication
Women’s Studies 220: Women in Society; Women’s Studies 375 Gender in Society

3. HUMANITIES

Courses that will provide skills to appreciate and interpret literary, philosophical, or religious texts, and to participate as an appreciative observer or artist in a discipline within the visual, musical, theatrical, or written arts. Bachelor of Arts students may meet this requirement by completion of three courses, of which at least one must be selected from List A and one from List B. Bachelor of Science students must complete a minimum of six credits from the courses listed; not more than three credits may be taken from List C. All courses except those involving practice of the arts are writing-emphasis courses.

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

List A: Literature
Asian Languages 311: Chinese Literature in English Translation; 312: Chinese Literature in English Translation; 313: Japanese Literature in English Translation; 314: Japanese Literature in English Translation
Classics 253: Greek Literature in English Translation
Comparative Literature 202: Crosscultural Perspectives in World Literature; 203: Crosscultural Perspectives in World Literature
Information Sciences 330: Books and Related Materials for Children
Italian 401: Dante and Medieval Culture; 402: Petrarch and Boccaccio

Medieval Studies 261: Medieval Culture: Readings from the Early Middle Ages, 500-1000; 262: Medieval Culture: Readings from the Later Middle Ages, 1000-1500
Religious Studies 312: Religious Aspects of Biblical and Classical Literature; 313: Religious Aspects of Modern Literature
Russian 221: Rebels, Dreamers, and Fools: The Outcast in 19th Century Russian Literature; 222: Heaven or Hell: Utopias and Dystopias in 20th Century Russian Literature; 291: Spanish Literature in English Translation

List B: Philosophical and Religious Thought
Classics 201: Introduction to Classical Civilization; 221: Early Greek Mythology; 222: Classical Greek and Roman Mythology
English 293: The Human Condition: Values and Reality; 111: The Human Condition: Knowledge and Reality; 240: Ethics; 342: Business Ethics; 344: Professional Responsibility (Same as Religious Studies 344); 345: Medical Ethics (Same as Religious Studies 345); 346: Ethical Theological Ethics; 347: War and Morality; 380: The Concept of Woman (Same as Women’s Studies 380); 382: Philosophy of Feminism (Same as Women’s Studies 382)

List C: Study or Practice of the Arts
Architecture 111: Architecture and the Built Environment
Art 191: Introduction to Studio Art: Various Media
Classics 232: Archaeology and Art of Ancient Greece; 233: Archaeology and Art of Etruria and Rome
English 293: Introduction to Creative Writing
Music History 110: Introduction to Music in Western Culture; 115: Music in the United States; 120: History of Rock
Music Theory 100: Fundamentals of Music Philosophy 350: Aesthetics; 353: Philosophy and Literature
Speech Communication 280: Introduction to Oral Interpretation
Women’s Studies 330: Women in Music (Same as Music History 330)

4. NON-U.S. HISTORY

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

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

African and African-American Studies
235-236: Introduction to African Studies
Asian Studies 101-102: Asian Civilization

History 241-242: Development of Western Civilization; 247-248: Honors: Development of Western Civilization; History 261-262: A History of World Civilization
Latin American Studies 251-252: Introduction to Latin American Studies

Medieval Studies 201-202: Medieval Civilization

PART B: UPPER LEVEL DISTRIBUTION REQUIREMENTS

Courses that use skills and knowledge acquired in the Basic Skills and Divisional Distribution areas to understand and analyze a highly interdependent world system and to make informed comparisons among contemporary cultures. These courses develop understanding of U.S., society, national and international diversity, and of critical issues of the modern world.

Bachelor of Arts students may meet this requirement by completion of two courses from one of the lists below and a third course from either of the other lists. Bachelor of Science students must complete two courses from two of the three lists. All courses are writing-emphasis courses.

List A: United States Studies
American Studies 310: Introduction to American Studies
Ecology and Evolutionary Biology 305: Evolution and Society (Same as Anthropology 305); Economics 413: Macroeconomic Fluctuations; 435: Industrial Organization Analysis; 462: Economics of Resources and Environmental Policy; 471: Public Finance: Optimal Government Functions and Expenditure Analysis; 472: Public Finance: Taxation and Intergovernmental Relations
English 313: Race and Ethnicity in American Literature; 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; 365: Geography of the American South; 365: Geography of Appalachia; 423: Geography of American Popular Culture (Same as American Studies 423); 425: Historical Geography of the United States; 441: Urban Geography of the United States; 443: Rural Geography of the United States

Geology 202: Introduction to Geological Science; 381: Minerals and Energy Resources

Economy: 441: The American West; 442: Indian-White Relations in United States History; 446: History of American Culture; 451: United States Military History, 1754 to the Present; 453: Women in American History (Same as Women’s Studies 453); 454: Cities and Urbanization in American History; 459: Jefferson’s America


Political Science 311: Contemporary Issues in American Public Policy; 312: Popular Culture and American Politics (Same as American Societies); 374: African Political Thought: Psychology and Gender (Same as Women’s Studies 434);

Religious Studies 351: Introduction to Religion in the United States; 352: African-American Religion in United States (Same as African and African-American Studies 352); 355: Religion and Culture in the United States (Same as American Society); 340: Class Structure; 343: Race and Ethnicity (Same as African and African-American Studies 343); 455: Society and Law

Speech Communication 450: Propaganda; 466: Rhetoric of the Women’s Rights Movement to 1930 (Same as Women’s Studies 466); 469: Freedom of Speech; 476: Rhetoric of the Contemporary Feminist Movement. (Same as Women’s Studies 476)

Women’s Studies 310: Emergence of the Modern American Woman; 340: Women, Politics, and the Law

List B: Foreign Studies

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

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

Africa


Geography 379: Geography of Africa (Same as African and African-American Studies 379)

History 371: African History (Same as African and African-American Studies 371); 372: African History (Same as African and African-American Studies 372); 381: History of South Africa (Same as African and African-American Studies 381)

Political Science 452: Black African Politics (Same as African and African-American Studies 452)

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

Asia

Art History 411: Art of South and Southeast Asia; 415: Art of China; 419: Art of Japan

History 362: History of East Asia;

363: History of East Asia; 364: History of China

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); 383: Religion in Japan; 474: Modern and Contemporary South Asian Religion

Europe

Anthropology 462: Early European Pre-history

Art History 425: Early Christian and Byzantine Art to 1350; 431: Medieval Art of the West, 800-1400; 441: Northern European Painting, 1350-1600; 442: Art of Northern Europe, 1600-1675; 451: Art of Italy, 1250-1450;

452: Art of Italy, 1450-1575; 453: Art of Southern Europe, 1575-1700; 454: Renaissance and Baroque Theory; 475: History of 19th Century Painting and Sculpture in Europe;

476: History of 20th Century Painting and Sculpture in Europe

Classics 331: Archaeology of the Aegean Bronze Age and Early Greece; 334: Cities and Sanctuaries of the Greek and Roman World;

381: Greek Civilization; 382: Roman Civilization;

383: Women in the Greek and Roman World (Same as Women’s Studies 383)

English 301: British Culture to 1660;

302: British Culture: 1660 to Present;

401: Medieval Literature

French 420: French Cinema; 431: Highights of French Civilization; 432: Contemporary French Culture

Geography 371: Geography of Europe;

375: Geography of Russia and the Commonwealth of Independent States

German 323: German Film; 350: German-Jewish Topics in Literature and Culture; 363: Modern German Culture

History 319: Modern Europe, 1750-1914;

320: Contemporary Europe, 1900-present;

323: Deviance and Persecution in the Christian West, 1100-1700; 429: Medieval Intellectual History;

432: Women in European History (Same as Women’s Studies 432); 490: Internship in the Center for the Study of War and Society

Italian 414: Italian Cultural Studies;

421: Topics in Italian Literature and Cinema

Medieval Studies 403: 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 Russia and Eastern Europe;

Russian 325: Russian Film; 371: Martyrs, Mobs, and Madmen in Russian Culture; 988-1861;

372: Eros, Death and Resurrection and Modern Russian Culture

Spanish 431: Spanish Civilization

Latin America

Anthropology 313: Peoples and Cultures of Mesoamerica (Same as Latin American Studies 313); 316: Peoples and Cultures of South America (Same as Latin American Studies 316);

319: Caribbean Cultures and Societies (Same as African and African-American Studies 319 and Latin American Studies 319)

Economics 424: Political Economy of World Development

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: History of Latin America:

Colonialism and Independence; 361: History of Latin America: National Development;

460: History of Brazil: African Revolution in Historical Perspective;

462: History of Mexico;

463: Modern Latin American History in Film;

475: Studies in Latin American History

Political Science 355: Latin American Government and Politics

Spanish 331: Introduction to Hispanic Culture (Same as Latin American Studies 331);

401: Cultural Plurality and Institutional Changes in Latin America (Same as Latin American Studies 401); 409: Topics in Hispanic Civilization

Middle East

Anthropology 463: Rise of Complex Civilizations

History 366: History and Archaeology of Mesopotamia; 369: History of the Middle East (Same as Judaic Studies 369); 370: History of the Middle East (Same as Judaic Studies 370);

383: History of Jewish Civilization I (Same as Judaic Studies 383); 384: History of Jewish Civilization II (Same as Judaic Studies 384)

Religious Studies 311: Ancient Hebraic Religious Traditions (Same as Judaic Studies 311); 332: Classical Islam; 333: Islam in the Modern World; 381: Introduction to Judaism (Same as Judaic Studies 381); 385: Contemporary Jewish Thinkers (Same as Judaic Studies 385)

Modern Jewish Thought (Same as Judaic Studies 405)

Critical Issues in Foreign Studies

Economics 323: Economic Development (Third World)

Geography 345: Population and Environment; 351: The Global Economy

History 374: A History of Imperialism Since 1850; 375: Revolutions in Historical Perspective; 395: The Crusaders and Medieval Christian-Muslim Relations

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

Religious Studies 371: Eastern Religions and Western Thought

Sociology 442: Comparative Patterns of Poverty and Development; 446: The Modern World System

Women’s Studies 360: Women in Cross-Cultural Perspective

C. Capstone Courses

These courses are offered within major fields and are designed to provide an integrative experience to broaden comprehension of the major field, to enhance understanding of how the field has and continues to influence society, and to draw attention to ethical considerations applicable to the field. As writing emphasis courses the capstones promote development of written communication skills used by the major field. It is recommended that this option be satisfied during the senior year.

NOTE: If used to satisfy the major requirement, these courses may not be used to satisfy the distribution requirement.
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 divisional distribution requirements where listed. In addition, students making A or B in English 118 may use a 200-level literature course in the English Department to satisfy both the second half of their Basic Skills English Composition requirement and part of their Humanities requirement if the course is listed there. A minimum grade of C must be earned in every course counted as part of a major. Students transferring from other institutions must complete at least 9 credit hours at UT 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.S. include: Anthropology, Art, Art History, Audiology, Biological Sciences, Chemistry, Classics, Computer Science, Economics, English, French, Geography, Geology, German, History, Interdisciplinary Programs, Italian, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Religious Studies, Russian, Sociology, Spanish, Speech Pathology, Statistics, and Theatre.

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 Arts and Sciences may also major inside the College of Arts and Sciences with the approval of the degree granting unit. These students need complete only the major requirements, not the Basic Skills or Distribution requirements for Arts and Sciences degrees. The Arts and Sciences major may also be listed on the student’s transcript.

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 Arts and Sciences may also minor inside the College of Arts and Sciences with the approval of the degree granting unit. The minimum requirement for a minor is 15 credit hours in courses numbered 200 or above. Minors are available in most departments or programs in which majors are offered, and also in Astronomy, Business, Philosophy, Russian, and Theatre. 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 Arts and Sciences. At least six of the 15 credit hours required for a minor must be completed at the University of Tennessee.

Business Minor for Non-Business Students
Requirements include the following courses: Accounting 201-202, Economics 201, Statistics 201, Finance 301, Management 301, Marketing 301, and one additional 300 level or above business elective. All upper division (300 level or above) course work must be taken at UT, Knoxville. 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’s interests to supplement and support the work being done in the major and Basic Skills and Distribution requirements. This dimension of the student’s experience 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 choices 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 semester.

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

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

Students in the Individualized Program will satisfy all the Basic Skills and Distribution requirements, just as do those in the Basic Program. The point at which the individualization takes place is in the area of concentration. The quantitative aspect of the area of concentration is the same as for the major in the Basic Program (i.e., a minimum of 24 hours in courses numbered above 200), and at least two-thirds of the courses must be selected from disciplines within the College of Arts and Sciences.

The student may design a program in consultation with an advisor and submit it for consideration to the Committee on the Individualized Program. The proposed courses of study must have some clear central theme, usually implemented through intensive work in two or three departments; an undirected scattering of courses will not be approved. For further information contact Arts and Sciences Advising Services.

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

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

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

PRE-DENTAL PROGRAM

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

1. BA students must complete a minimum of 12 credits from at least two areas; BS students must complete a minimum of 6 credits from at least two areas for the Social Science requirement.
2. BA students must complete a minimum of 6 credits in one of the three areas and 3 credits from one of the remaining two areas. BS students must complete a minimum of 6 credits in two of the three areas. (Upper Level Distribution).
3. Depending upon course selection, a student may require less than the listed elective hours to reach the minimum total of 93 hours. Recommended courses in biology are genetics, and comparative vertebrate anatomy.

PRE-MEDICAL PROGRAM

The college offers a joint B.A./M.B.A. program with the College of Business Administration. Admission requirements are higher than those normally expected of M.B.A. applicants. Desired qualifications include a minimum of 2 GPA and a Graduate Management Admission Test Score of 600 or higher.

Students in this program take their first three years of course work in Arts and Sciences, and their last two years in the College of Business Administration. Within their first three years, students must fulfill all general education requirements for the B.A. degree, both upper and lower division, along with a minor offered by one of the Arts and Sciences departments. They may use one Economics course only to fulfill distribution requirements, and they are required to take a year of calculus as the only prerequisite to the M.B.A.

Students interested in the Dual B.A./M.B.A. program are counseled initially in the Arts and Sciences Advising Services regarding admission standards and Arts and Sciences requirements. At the end of the third year, they will have a conference with the Associate Dean for Graduate Business Programs and be advised of their prospects for formal admission. If the student is a likely candidate, he/she will be advised to take the Graduate Management Admission Test in October of the third year and to submit an application to the M.B.A. program. The admission decision will be made by January of the third year. Upon admission, students will begin M.B.A. course work in the fourth year and be awarded a B.A. degree at the end of that year. Upon successful completion of the fifth year, the student will receive the M.B.A. degree.

PRE-MBA PROGRAM

The college offers a three-year program leading to a B.S. degree and a four-year program leading to a Bachelor of Arts or Science degree for students preparing for the study of medicine. Both programs are based upon the program outlined below. In the three-year program the student must complete at least 93 credit hours while enrolled in the college, and the B.S. degree is granted upon satisfactory completion of the first year of study at UT Health Science Center, Memphis. In the four-year program the degree is granted upon completion of 124 or more credit hours while enrolled in the college, including a major of 24 or more hours in addition to the courses outlined below. The requirements for a major are waived for those taking their fourth year at UT Health Science Center, Memphis. Students in either the three- or four-year program must complete the last 30 hours of credit in residence at UT before entering UT Health Science Center, 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.
more than 3 credits may be taken in the Arts.

\(^1\) BA students must complete a minimum of 12 credits from at least two areas; BS students must complete a minimum of 6 credits from at least two areas for the Social Sciences requirement.

\(^2\) BA students must complete a minimum of 6 credits in one of the three areas and 3 credits from one of the remaining two areas. BS students must complete a minimum of 6 credits in two of the three areas.

\(^3\) Upper Level Distribution.

\(^4\) Depending upon course selection, a student may require more than the listed elective hours to reach the minimum total of 93 hours. Not all not specifically required by the College of Medicine, the Health Professions Advisory Committee strongly recommends that students include additional work in upper-division Biological Sciences such as Biochemistry and Cellular and Molecular Biology 410-419, Biochemistry and Cellular and Molecular Biology 330-331, 420 and Microbiology 310-319.

**NUCLEAR MEDICINE TECHNOLOGY**

The Nuclear Medicine Technology Curriculum requires a minimum of 94 hours credit, including the College’s basic skills and distribution requirements, prior to application for admission to a final year of study at the University of Tennessee Medical Center, Knoxville.

Students who complete the Nuclear Medicine Technology Program at UTMC receive the B.S. degree in Preprofessional Programs with a concentration in Nuclear Medicine Technology from the College of Arts and Sciences.

**NOTE:** Admission to the Nuclear Medical Technology Program at UTMC is at the discretion of the admissions committee of that department; successful completion of the three-year curriculum noted below does not assure admission to the program.

### Hours Credit

**Freshman**

- English 101-102 ............................................ 6
- Chemistry 120-130 ........................................... 8
- Mathematics .................................................. 6-8
- Basic Skills: Foreign Language (Intermediate Level Sequence) .................................................. 6
- Divisional Distribution: Non-U.S. History ........... 6

**Sophomore**

- Biology 130-140 .............................................. 8
- Chemistry 350, 360, 369 .................................... 8
- Speech Communication 210 ............................ 3
- Divisional Distribution: Humanities .................... 3
- Divisional Distribution: Intermediate Social Sciences ................. 3
- Computer Science 100 or 102 ............................ 3-4

**Junior**

- Biochemistry and Cellular and Molecular Biology 230 and Evolutionary Biology 240 .................................. 9
- Physics 221-222 ............................................... 8
- Divisional Distribution: Humanities .................... 3
- Upper Level Distribution (A) U.S. Studies, (B) Foreign Studies, or (C) Capstone Experience .................. 6
- Electives ......................................................... 4

**Senior**

- Completion of Nuclear Medicine Technology program at UTMC (12 month program) or completion of major program and BA or BS requirements.

**Total:** 94 hours

### Senior Year Program Outline

**Fall Semester**

- Physics For Nuclear Medicine I .......................... 3
- Nuclear Instrumentation .................................... 3
- Radiopharmacy/Radiochemistry .......................... 2
- Clinical Nuclear Medicine I .............................. 4
- Clinical Practicum I ....................................... 4

**Spring Semester**

- Physics for Nuclear Medicine II .......................... 3
- Computer Applications ..................................... 3
- Clinical Nuclear Medicine II .............................. 3
- Clinical Practicum II ....................................... 6

**Summer Semester**

- Registry Review ............................................. 2
- Clinical Nuclear Medicine III ............................. 3
- Clinical Practicum III ...................................... 6

**Total:** 44 hours

### Pre-Pharmacy Programs

The college offers three programs preparing students for the study of pharmacy at UT Health Science Center, Memphis. The Doctor of Pharmacy (Pharm.D.) degree is conferred by the College of Pharmacy upon completion of four years of professional study at Memphis following any of the three programs. Bulletins describing the three pre-pharmacy programs in detail may be obtained from Arts and Sciences Advising Services, 220 Ayres Hall.

The two-year program prepares students to be admitted to the College of Pharmacy upon completion of 50 hours of a prescribed course of study in the College of Arts and Sciences. Further information may be obtained from Arts and Sciences Advising Services, 220 Ayres Hall.

### Hours Credit

**Freshman**

- English 101-102: ............................................ 6
- Chemistry 120-130: ........................................... 8
- Mathematics: .................................................. 6-8
- Basic Skills: Foreign Language (Intermediate Level Sequence): .................................................. 6
- Divisional Distribution: Non-U.S. History: ........... 6

**Sophomore**

- Biology 130-140: .............................................. 8
- Chemistry 350, 360, 369: .................................... 8
- Speech Communication 210: ............................ 3
- Divisional Distribution: Humanities: .................... 3
- Divisional Distribution: Intermediate Social Sciences: ................. 3
- Computer Science 100 or 102: ............................ 3-4

**Junior**

- Biochemistry and Cellular and Molecular Biology 230 and Evolutionary Biology 240: .................................. 9
- Physics 221-222: ............................................... 8
- Divisional Distribution: Humanities: .................... 3
- Upper Level Distribution (A) U.S. Studies, (B) Foreign Studies, or (C) Capstone Experience: .................. 6
- Electives: ......................................................... 4

**Senior**

- Completion of Nuclear Medicine Technology program at UTMC (12 month program) or completion of major program and BA or BS requirements.

**Total:** 124 minimum hours

1 Or equivalent honors courses.

2 Mathematics placement depends on high school courses and grades, ACT scores, and BA/BS requirements. All students must complete the Mathematics Basic Skills requirements as outlined in the Arts and Sciences curriculum. Mathematics 130 or any calculus course is a prerequisite to Physics.

3 This requirement presumes the student has sufficient high school background in a language to begin an intermediate language sequence at UT Knoxville.

**Pre-Teaching Programs**

Students planning careers in K-12 teaching must complete an Arts and Sciences major in a department, in one of the Interdisciplinary or Pre-Teaching programs or, if eligible, in the College Scholars Program. Prospective secondary teachers must fulfill the requirements of appropriate content majors; prospective elementary teachers may choose either a departmental major or one of the four options described below. All pre-teaching students should consult appropriate materials in Arts and Sciences Advising Services before making final choices of majors.
To be licensed for teaching, students must also gain formal admission to the Teacher Education Program in the College of Education. The process involves successful completion of a series of requirements including presentation of satisfactory scores on certain tests, completing professional courses in the College of Education, maintenance of a 2.7 or higher GPA, and completing a five year program emphasizing practical application. For details, see The College of Education section of the Undergraduate Catalog and contact the Education Advising Center, Claxton Complex 332.

PRE-TEACHING SCIENCE AND MATHEMATICS OPTIONS: BACHELOR OF SCIENCE

1. Environmental Science
This concentration should develop the knowledge and understanding of the environmental sciences appropriate to the needs of the teacher in grades K-8. The prerequisite courses assure that the student has an adequate background in the biological, chemical, and physical sciences to proceed to upper division courses in either of the chosen areas of concentration. The two tracks beyond the core stress the two major emphases of the ecological sciences—the biological and the physical-chemical. The student choosing to emphasize the biological track should be prepared to teach general and earth science through the middle school years. The student choosing to emphasize the physical-chemical track should be prepared to teach general and earth science through the middle school years.

Prerequisite courses: NB: One mathematics and one science sequence or two science sequences (14-16 hours) may be used to satisfy general education requirements.

2. Mathematics
115, 123 (3,3) or Mathematics 123, 125 (3,3) or Mathematics 141-142 (4,4) or Mathematics 151-152 (3,3)
2. Chemistry 120, 130 (4,4)
3. Biology 130, 140 (4,4) or Botany 110-120 (4,4)
4. Geology 101-102 (4,4) or Geography 131-132 (4,4) or Physics 221-222 (4,4)

Core courses: (11 hours)
1. Biology 240: General Genetics (4)
2. Biology 250: General Ecology (4)
3. Geology 203: Geology of National Parks (3)

Beyond the core curriculum, the student must choose 18 hours from the two tracks listed below: 15 hours from one track and 3 hours from the other track.

A. Biological Sciences Track
Botany 305: Socio-Economic Impact of Plants (3); Botany 310: Plant Morphology (4); Botany 330: Field Botany (3); Botany 403: Plant Evolution (3); Botany 431: Plant Ecology (3); Ecology and Evolutionary Biology 350: Comparative Vertebrate Biology (4); Ecology and Evolutionary Biology 360: Comparative Invertebrate Biology (4); Ecology and Evolutionary Biology 380: General Entomology (3); Ecology and Evolutionary Biology 470: Aquatic Ecology (3); Ecology and Evolutionary Biology 474: Ichthyology (3); Ecology and Evolutionary Biology 475: Field Ornithology (4); Ecology and Evolutionary Biology 476: Evolution of Birds (3); Geology 305-360-369: Organic Chemistry and Lab (3.3,2); Geology 344: Introduction to Oceanography (4); Geology 345: Meteorology (3); Geology 346: The Land-Surface System (3); Geology 347: Process Geomorphology (3); Geology 403: Water Resources (3); Geology 450: Process Geomorphology (3); Geology 455: Basic Environmental Geology; Geology 485: Principles of Geohydrology (3); Geology 495: Principles of Geology (3).

Core courses (14 hours):
1. Biology 245: General Genetics (4); Biology 250: General Ecology (4)
2. Two of the following three courses: Geology 201: Biodiversity; Past, Present, and Future (3); Geology 202: Earth as an Ecosystem: Modern Problems and Solutions (3); Geology 203: Geology of National Parks (3)

Beyond the core curriculum, the student must take 18 hours from the two tracks listed below: 15 hours from one track and 3 hours from the other track. At least 15 of the 18 hours must be at the 300 or 400 level.

B. Physical-Chemical Sciences Track
Biochemistry and Cellular and Molecular Biology 310: Physiological Chemistry (4); Chemistry 350-360-369: Organic Chemistry and Lab (3.3,2); Ecology and Evolutionary Biology 446: Introduction to Oceanography (4); Geology 344: Meteorology (3); Geology 346: The Land-Surface System (3); Geology 347: Process Geomorphology (3); Geology 403: Water Resources (3); Geology 450: Process Geomorphology (3); Geology 455: Basic Environmental Geology; Geology 485: Principles of Geohydrology (3); Geology 495: Principles of Geology (3).

Core courses (14 hours):
1. Math 141-142 (4,4) or Mathematics 151-152 (3,3)
2. Chemistry 120, 130 (4,4)
3. Biology 130, 140 (4,4) or Botany 110-120 (4,4)
4. Geology 101-102 (4,4) or Geography 131-132 (4,4) or Physics 221-222 (4,4)

Prerequisite courses: NB: One mathematics and one science sequence or two science sequences (14-16 hours) may be used to satisfy general education requirements.

1. Mathematics 115, 123 (3,3) or Mathematics 123, 125 (3,3) or Mathematics 141-142 (4,4) or Mathematics 151-152 (3,3)
2. Chemistry 120, 130 (4,4)
3. Biology 130, 140 (4,4) or Botany 110-120 (4,4)
4. Geology 101-102 (4,4) or Geography 131-132 (4,4) or Physics 221-222 (4,4)

A. Biological Sciences
1. Anthropology 210: Principles of Biological Anthropology (3); Anthropology 464: Principles of Zooloanthropology (3);
2. Anthropology 480: Human Osteology (3); Anthropology 485: Human Paleontology (3);
3. Anthropology 495: Human Paleontology (3); Anthropology 496: Biology of Human Variability (3); Biochemistry and Cellular and Molecular Biology 230: Human Physiology (3); Biochemistry and Cellular and Molecular Biology 310: Physiological Chemistry (4); Biochemistry and Cellular and Molecular Biology 330-331: Mechanisms of Development and Lab (3.2).

Beyond the core curriculum, the student must choose one of the following courses: Botany 305: Socio-Economic Impact of Plants (3); Botany 306: Genetics and Society (3); Botany 309: Biology of Human Affairs (3); Botany 310: Plant Morphology (4); Botany 321: Introductory Plant Physiology (4); Botany 330: Field Botany (3); Ecology and Evolutionary Biology 240: Human Anatomy (4); Ecology and Evolutionary Biology 350: Comparative Vertebrate Biology (4); Ecology and Evolutionary Biology 360: Comparative Invertebrate Biology (4); Ecology and Evolutionary Biology 380: General Entomology (3); Ecology and Evolutionary Biology 450-459: Comparative Animal Behavior and Lab (3,3); Ecology and Evolutionary Biology 470: Aquatic Ecology (3); Ecology and Evolutionary Biology 474: Ichthyology (3); Ecology and Evolutionary Biology 475: Field Ornithology (4); Ecology and Evolutionary Biology 484: Conservation Biology (3); Geography 435: Biogeography (3); Geography 456: Water Resources (3); Geography 535: Plant Geography of North America (3); Geology 320: Paleobiology (3); Geology 420: Paleoenvironmental Biology (4); Microbiology 310-319: Introduction to Microbiology and Lab (3,1); Microbiology 470: Microbial Ecology (3); Psychology 210: Biological Basis of Behavior (3); Psychology 410: Sensory Processes and Perception (3); Psychology 461: Physiological Psychology (3);

Course has prerequisite other than courses prerequisite to this major. See catalog for details.

Total (core + track concentration) = 32 hours
3. Mathematics
This concentration aims at developing a fundamental understanding of some of the primary avenues of mathematical thought appropriate to the needs of the teacher in grades K-8. Topics include algebra, calculus, computing, geometry, history of mathematics, probability, and statistics.

Mathematics 115: Statistical Reasoning (3); Mathematics 130: Precalculus I (4); Mathematics 141-142: Calculus I and II (4,4); Mathematics 241: Calculus III (4); Mathematics 251: Matrix Algebra (3); Mathematics 300: Introduction to Abstract Mathematics (3); Mathematics 323: Probability (3); Mathematics 400: History of Mathematics (3); Mathematics 401: Math and Microcomputing (3); Mathematics 460: Geometry (3).

Total: 36 hours

4. Mathematics and Science
This concentration should develop the knowledge and understanding of the natural sciences and mathematics appropriate to the needs of the teacher in grades K-8 and is intended to provide the student with the minimal competence to teach in either or both disciplinary areas. Of necessity, depth in any particular discipline is secondary to obtaining breadth from an array of natural science and mathematics areas. Courses included in the major have been selected to maximize the number of upper division courses that can be taken without prerequisites.

Prerequisite courses: (32 hours)
1. Mathematics 141-142 (4,4)
2. Chemistry 120, 130 (4,4)
3. Biology 130, 140 (4,4) or Botany 110-120 (4,4)
4. One sequence from among the following:
   - Astronomy 161-162 (4,4) or Geography 131-132 (4,4) or Geology 101-102 (4,4) or Physics 221-222 (4,4)

NB: One mathematics and one science sequence or two science sequences (14-16 hours) may be used to satisfy general education requirements.

Core courses: (17 hours)
1. Biology 240: General Genetics (4); Biology 250: General Ecology (4) or Biochemistry and Cellular and Molecular Biology 230: Human Physiology (5); and Ecology and Evolutionary Biology 240: Human Anatomy (4)
2. Choose two of the following three courses:
   - Geology 201: Biodiversity: Past, Present, and Future (3); Geology 202: Earth as an Ecosystem: Modern Problems and Solutions (3); Geology 303: Geology of National Parks (3)
3. Mathematics 300: Introduction to Abstract Mathematics (3) Beyond the core curriculum, the student must take two courses from each of these three areas:
   - A. *Biological Sciences (6-8 hours)*
     - Anthropology 496: Biological Anthropology (4)
     - Botany 210: General Botany (4)
     - Botany 309: Biology of Human Affairs (3)
   - C. Mathematics (6 hours)
     - Mathematics 400: History of Mathematics (3)
     - Mathematics 401: Microcomputing (3)
     - Math 405: Models in Biology (3)
     - Mathematics 460: Geometry (3)

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

Hours Credit
Freshman
1. English 101-102 ................................................. 6
2. Chemistry 120-130 ............................................. 8
3. Biology 130-140 .................................................. 8
4. Basic Skills (B) Foreign Language (Intermediate Level Sequence) .............................................. 6
5. Mathematics ....................................................... 4-8

Sophomore
1. Biology 240 ....................................................... 4
2. Chemistry 120-130 (4,4)
3. Physics 221-222 ................................................... 8
5. Divisional Distribution: Social Sciences ............ 3

Junior
1. Biochemistry and Cellular and Molecular Biology 410 or 401 and 402 ............................ 4-6
2. Divisional Distribution: Social Science ......................... 3
3. Divisional Distribution: Humanities ........................................ 6
4. Upper Level Distribution (A) U.S. Studies, (B) Foreign Studies, or (C) Capstone Experience ............. 6
5. Electives ..................................................................... 7-12

Total: 93 hours

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

Or equivalent honors courses.

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

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

Mathematics 130 or a calculus course is a prerequisite for Physics. All students must complete the Math Basic Skills requirement as outlined in the Arts and Sciences curriculum.

1B. A. students must complete a minimum of 12 credits from at least two areas; B.S. students must complete a minimum of 6 credits from at least two areas for the Social Science requirements.

1B. A. students must take at least one course from List A: Literature and at least one course from List B: Foreign Studies, or
   - A. Philosophical and Religious Thought plus one additional course from List A, B, or C.
   - B. A. students must complete a minimum of 6 credits from one of the three areas; not more than 3 credits may be taken from List C: Arts.
   - B. A. students must complete a minimum of 6 credits in one of the three areas and 3 credits from one of the remaining two areas. B.S. students must complete a minimum of 6 credits in two of the three areas.

1C. Depending upon course selection, a student may require less than the listed elective hours to reach the minimum total of 93 hours.

B. A. students must complete a minimum of 6 credits from one of the three areas and 3 credits from one of the remaining two areas. B.S. students must complete a minimum of 6 credits in two of the three areas.

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

** 2. At least 90 semester hours must be completed at the University of Tennessee, Knoxville (UTKC). After the course of study is completed, UTKC awards the student a Certificate of Laboratory Training. Students are then eligible for examination by the Board of
Registry of the American Society of Clinical Pathologists to earn certification as registered medical technologists.

**Freshman**

1. English 101, 102 .................................................. 6
2. Biology 130, 140 .................................................. 14
3. Chemistry 120-130 ............................................. 8
4. Mathematics ............................................................ 6

**Sophomore**

1. Basic Skills: Foreign Language (Intermediate Level Sequence) .................................................. 6
2. BCMB 230 ............................................................... 6
3. Biology 240 ............................................................... 4
4. Microbiology 310, 319 .............................................. 4
5. Divisional Distribution: Humanities ............................................................ 3
6. Divisional Distribution: Non-U.S. History .......................... 6
7. Microbiology 430 ............................................................... 3
8. Divisional Distribution: Molecular Biology 310 .................................................. 7
9. Chemistry 310, 319 .............................................. 7
10. Upper Level Distribution (A) U.S. Studies, (B) Foreign Studies, or (C) Capstone Experience .................. 6

Total: 124 minimum hours

**Junior**

1. Microbiology 420, 429 .............................................. 5
2. Chemistry 110 and Biochemistry and Cellular and Molecular Biology 310 .................................................. 7
3. Chemistry 310, 319 .............................................. 7
4. Microbiology 430 ............................................................... 3
5. Divisional Distribution: Humanities ............................................................ 3
6. Divisional Distribution: Social Sciences ............................................................ 6
7. Upper Level Distribution (A) U.S. Studies, (B) Foreign Studies, or (C) Capstone Experience .................. 6

Total: 93 hours

**Senior**

Medical Technology course of study at UTMCK

(12 month program)

**ART**

Professors:

1. M. Magden (Director), Ph.D. Case Western Reserve
2. S. I. Blain, M.F.A. Wisconsin
4. J. S. Falsett (Emeritus), M.S. Ohio State
5. M. Goldenstein, M.F.A. Nebraska
6. D. M. Habel, Ph.D. Michigan
7. W. C. Kennedy, M.F.A. Wisconsin
8. B. Lee, M.F.A. Yale
9. W. E. Leland, M.F.A. Tennessee
10. P. R. Livingston, M.F.A. Wisconsin
11. B. Lyons, M.F.A. Arizona State
12. F. H. Martinson (Emeritus), Ph.D. Chicago
13. S. E. Metros, M.F.A. Michigan State
14. C. C. Moffatt, Ph.D. Chicago
15. P. Peacock (Emeritus), M.F.A. Iowa
16. T. J. Riesing, M.F.A. Nebraska
17. F. C. Stewart, M.F.A. Claremont
18. D. Wilson, M.F.A. Wisconsin

Associate Professors:

1. S. B. Brogden, M.F.A. New York State College of Ceramics at Alfred
2. T. W. Hiles, Ph.D. Pennsylvania State
3. A. N. Neff, Ph.D. Pennsylvania
4. C. Staples, M.F.A. Michigan State

Assistant Professors:

1. A. Jung, M.F.A. Wisconsin
2. K. K. Evers, M.F.A. Ohio
3. J. D. Odem, M.F.A.
4. S. W. Wright, Ph.D. Stanford

**PROGRESSION REQUIREMENTS**

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

- Art 101  
- Art 103  
- Art History 165, 172, 173, or 183 (choose one)

*See section on transfer students. Students have the right to petition the School in the event of unusual enrollment circumstances.
Students entering the major must have earned a minimum 3.00 cumulative average in the above courses to be considered for progression into the School of Art. Those applying will progress in rank order of cumulative average as space allows. The overall record will be evaluated for quality and seriousness of purpose. Excessive absences, withdrawals, incompletes or repeated courses may result in denial of progression. Progression into the School of Art does not guarantee progression into a chosen concentration. Progression into a concentration will follow successful completion of a Concentration Portfolio Review.

**B. F. A. IN STUDIO ART**

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

Transfer students are advised that a minimum of 21 hours in studio courses, and 6 upper division hours in art history, must be earned at UT. Transfer students must have a minimum overall GPA of 3.00 in Art and Art History courses and may be required to present a portfolio. Those students who have not taken any art courses must take the sequence of courses required of freshmen (see section on Progression into the School of Art). Students should be cautioned that art courses taken at another institution may not apply toward their concentration. Art Design 252, Drawing 212, and Painting 214 must be taken at the University of Tennessee. Courses not accepted for application toward a concentration may be counted as studio electives. No grade below “C” in art courses may be applied to the B.F.A. major. A minimum of 40 credit hours, 300 level or above, must be earned prior to graduation.

Students may be accepted into advanced media concentrations in Ceramics, Drawing, Painting, Media Arts, Printmaking, Sculpture, and Watercolor after passing the appropriate portfolio course.

### Basic Requirements (All Concentrations Except Media Arts)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
</tr>
<tr>
<td>Art 101, 103</td>
<td>4</td>
</tr>
<tr>
<td>Art 295</td>
<td>3</td>
</tr>
<tr>
<td>Art History 172 and 173 and 162 or 183</td>
<td>9</td>
</tr>
<tr>
<td>Art History Electives</td>
<td>9</td>
</tr>
<tr>
<td>One course from each of the following 6 areas:</td>
<td></td>
</tr>
<tr>
<td>Art Ceramics, Art Drawing, Art Media Arts, Art Painting/Color, Art</td>
<td>18</td>
</tr>
<tr>
<td>Printmaking, Art Sculpture, Art Painting/Color, Art Printing, and Art</td>
<td></td>
</tr>
<tr>
<td>Sculpture</td>
<td></td>
</tr>
<tr>
<td>Sub-Total: 43</td>
<td></td>
</tr>
</tbody>
</table>

**Studio Electives**

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

Sub-Total: 18

### General Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>6</td>
</tr>
<tr>
<td>Non U.S. History/Social Science</td>
<td></td>
</tr>
<tr>
<td>Natural Science/Mathematics</td>
<td>6-8</td>
</tr>
<tr>
<td>Arts and Sciences Non-Art Electives</td>
<td>14-16</td>
</tr>
</tbody>
</table>

Sub-Total: 34

### Concentrations

<table>
<thead>
<tr>
<th>Concentrations</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceramics</td>
<td></td>
</tr>
<tr>
<td>Ceramics 222</td>
<td>3</td>
</tr>
<tr>
<td>Ceramics 321, 322 (prerequisite for all 400 level)</td>
<td></td>
</tr>
<tr>
<td>Ceramics courses</td>
<td>6</td>
</tr>
<tr>
<td>Ceramics 421, 422, 429, 493, or 494</td>
<td>14</td>
</tr>
<tr>
<td>Approved Concentration Electives:</td>
<td></td>
</tr>
<tr>
<td>(9 hours from the following)</td>
<td></td>
</tr>
<tr>
<td>Ceramics 427, 425, 426, 429</td>
<td></td>
</tr>
<tr>
<td>Drawing 212</td>
<td></td>
</tr>
<tr>
<td>Sculpture 241, 242, 243, 245, 246</td>
<td></td>
</tr>
<tr>
<td>Printmaking 262, 263</td>
<td></td>
</tr>
<tr>
<td>Painting 213, 214, 215</td>
<td></td>
</tr>
<tr>
<td>Arrowmont Ceramics 420</td>
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Sub-Total: 32

### Drawing:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Drawing 212 (may be repeated)</td>
<td>3</td>
</tr>
<tr>
<td>Art Drawing 311 (for two semesters)</td>
<td>8</td>
</tr>
<tr>
<td>Art Drawing 411 (for two semesters)</td>
<td>12</td>
</tr>
<tr>
<td>Approved Concentration Electives:</td>
<td></td>
</tr>
<tr>
<td>(9 hours from the following)</td>
<td></td>
</tr>
<tr>
<td>Art Drawing 219/419 (maximum 6 hours)</td>
<td></td>
</tr>
<tr>
<td>Art Painting 213, 214, 215</td>
<td></td>
</tr>
<tr>
<td>Art Media Arts 231</td>
<td></td>
</tr>
<tr>
<td>Art Printmaking 262, 263</td>
<td>9</td>
</tr>
</tbody>
</table>

Sub-Total: 32

### Painting:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Painting 214 (may be repeated)</td>
<td>3</td>
</tr>
<tr>
<td>Portfolio Review 312 (S/NC)</td>
<td></td>
</tr>
<tr>
<td>Painting 313 (for two semesters)</td>
<td>6</td>
</tr>
<tr>
<td>Painting 413 (for two semesters)</td>
<td>12</td>
</tr>
<tr>
<td>Approved Concentration Electives:</td>
<td></td>
</tr>
<tr>
<td>(9 hours from the following)</td>
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</tr>
<tr>
<td>Art Drawing 219/419 (maximum 6 hours)</td>
<td></td>
</tr>
<tr>
<td>Art Painting 213, 215</td>
<td></td>
</tr>
<tr>
<td>Art Media Arts 231</td>
<td></td>
</tr>
<tr>
<td>Art Drawing 212</td>
<td>9</td>
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</tbody>
</table>

Sub-Total: 32

### Printmaking:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printmaking 200 level course</td>
<td>3</td>
</tr>
<tr>
<td>Portfolio Review 360 (S/NC)</td>
<td></td>
</tr>
<tr>
<td>Printmaking 300 and 400 level courses</td>
<td>20</td>
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<tr>
<td>Approved Concentration Electives:</td>
<td></td>
</tr>
<tr>
<td>(9 hours from the following)</td>
<td></td>
</tr>
<tr>
<td>Art Drawing 212 (maximum 6 hours)</td>
<td></td>
</tr>
<tr>
<td>Art Drawing 311</td>
<td></td>
</tr>
<tr>
<td>Art Drawing 419 (maximum 6 hours)</td>
<td></td>
</tr>
<tr>
<td>Art Media Arts 231</td>
<td></td>
</tr>
<tr>
<td>Art Printmaking 469 (3 hours)</td>
<td>9</td>
</tr>
</tbody>
</table>

Sub-Total: 32

### Sculpture:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
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</thead>
<tbody>
<tr>
<td>Sculpture 200 level course</td>
<td>3</td>
</tr>
<tr>
<td>Portfolio Review 340 (S/NC) Prerequisite to 300 and 400 level courses</td>
<td></td>
</tr>
<tr>
<td>Sculpture 300 and 400 level courses</td>
<td>20</td>
</tr>
<tr>
<td>Approved Concentration Electives:</td>
<td></td>
</tr>
<tr>
<td>(9 hours from the following)</td>
<td></td>
</tr>
<tr>
<td>Art Drawing 212 (maximum 6 hours)</td>
<td></td>
</tr>
<tr>
<td>Art Drawing 311</td>
<td></td>
</tr>
<tr>
<td>Art Drawing 419 (maximum 6 hours)</td>
<td></td>
</tr>
<tr>
<td>Art Media Arts 231</td>
<td></td>
</tr>
<tr>
<td>Art Printmaking 469 (3 hours)</td>
<td>9</td>
</tr>
</tbody>
</table>

Sub-Total: 32

### Watercolor:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Painting 216 (may be repeated)</td>
<td>3</td>
</tr>
<tr>
<td>Portfolio Review 314 (S/NC)</td>
<td></td>
</tr>
<tr>
<td>Art Drawing 315 (for two semesters)</td>
<td>8</td>
</tr>
<tr>
<td>Art 415 (for two semesters)</td>
<td>12</td>
</tr>
<tr>
<td>Approved Concentration Electives:</td>
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</tr>
<tr>
<td>(9 hours from the following)</td>
<td></td>
</tr>
<tr>
<td>Art Drawing 219/419 (maximum 6 hours)</td>
<td></td>
</tr>
<tr>
<td>Art Printing 213, 214</td>
<td></td>
</tr>
<tr>
<td>Art Media Arts 231</td>
<td></td>
</tr>
<tr>
<td>Art Drawing 212</td>
<td>9</td>
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</tbody>
</table>

Sub-Total: 32

### B. F. A. IN STUDIO ART—MEDIA ARTS CONCENTRATION

### Basic Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 101, 103</td>
<td>4</td>
</tr>
<tr>
<td>Art 295</td>
<td>3</td>
</tr>
<tr>
<td>Art History 172 and 173 and 183 or 162</td>
<td>9</td>
</tr>
<tr>
<td>Art History Electives</td>
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</tr>
<tr>
<td>One course from each of the following 5 areas:</td>
<td></td>
</tr>
<tr>
<td>Art Ceramics, Art Drawing, Art Media Arts, Art Painting/Color, Art</td>
<td>15</td>
</tr>
<tr>
<td>Printmaking, Art Sculpture, Art Painting/Color, Art Ceramics, Art</td>
<td></td>
</tr>
<tr>
<td>Printmaking, and Art Sculpture, Art Printmaking, Art Printing, and Art</td>
<td></td>
</tr>
<tr>
<td>Sculpture</td>
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</tr>
<tr>
<td>Sub-Total: 46</td>
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### Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media Arts 330 (Portfolio Review)</td>
<td>6</td>
</tr>
<tr>
<td>(Prerequisite to 300 and 400 level courses)</td>
<td>(S/NC)</td>
</tr>
<tr>
<td>Art History 403 (History of Photography)</td>
<td>3</td>
</tr>
<tr>
<td>Art Media 433 (History of Film and Modern Art)</td>
<td>3</td>
</tr>
<tr>
<td>Art Media 435 (Cinematography as Art)</td>
<td>6</td>
</tr>
<tr>
<td>Art Media 436 (Video Art)</td>
<td>6</td>
</tr>
<tr>
<td>Art Media 331 [Photography I] or Art Media 341 (Digital Photography I)</td>
<td>4</td>
</tr>
<tr>
<td>or Art Media 441 (Digital Photography II)</td>
<td></td>
</tr>
<tr>
<td>Sub-Total: 32</td>
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</tr>
</tbody>
</table>

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

Sub-Total: 15

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

Sub-Total: 32-33

Total: 125-126 hours

B.F.A. IN STUDIO ART WITH ADDITIONAL COURSES IN ART EDUCATION
Students who wish to obtain licensure to teach art in schools K-12 can pursue the B.F.A. degree in studio with additional courses in Art Education. Up to 13 credit hours of Art Education courses may be used as studio electives. Students who wish to pursue licensure to teach should be aware that General Curriculum requirements are different. For details, see Art Education listings in the College of Education section of this catalog.

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

Transfer students are advised that a minimum of 21 hours in studio courses, and 6 upper division hours in art history must be earned at UT Knoxville. Transfer students who expect to enroll in 300 (junior level) courses must present a portfolio of 10-15 works, the majority of which must be in graphic design. No grade below “C” in art courses may be applied toward the B.F.A. major. A minimum of 42 credit hours, 300 level or above, must be earned prior to graduation.

A minimum of 127 credit hours are required for graduation. Students are advised that courses in Graphic Design must be taken in sequence, and that successful completion of Art 350 (Portfolio Review, S/NC) is prerequisite to all upper division courses.

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

Hours Credit
Art Core
Art 101, 103, 295 ........................................... 7
Art History 172, 173 ........................................... 6
Art History electives ....................................... 9
Art Drawing 211, 212; Art Painting 213 (or 215); Art Media Arts 231 ...................................... 12

Sub-Total: 34

Graphic Design
Art Graphic Design 151 ..................................... 3
Art Graphic Design 251, 252, 351, 352, 356, 451, 452, 455 (in sequence) .......................... 24
Art Graphic Design 350
Portfolio Review (S/NC) ...................................... 0
Art Graphic Design 444 (maximum 6 hours) and/or 456 .................................................. 12

Sub-Total: 39

Design and Professional Electives
Art Graphic Design 254, 256, 259, 354, 396, 405, 453, 454, 459; Art Media Arts 235, 236, 331, 435, 436; Art 491, 492; Advertising 250, 350, 490;
Marketing 301 .................................................. 12

Sub-Total: 12

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

Sub-Total: 9

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

Sub-Total: 33

Total Semester Hours: 127 hours

B.A. MAJORS IN ART HISTORY
Prerequisite: Art 172 and 173 and 183 or 162 (or their Honors equivalents) .............................. 9

Art History courses numbered 300 and above .... 21
Students are required to take at least one course in four of the following areas: Medieval/Early Renaissance—Art History 425, 431, 441, 461; American—Art History 442, 452, 453; American—Art History 471, 472, 473, 483; 19th/20th Century—Art History 403, 472, 474, 475, 476; Art Media Arts 432; Asian—Art History 411, 415, 419; 9 Art History elective hours or from courses in the Departments of Classics, Religious Studies, or School of Architecture in consultation with departmental advisor.
Art 481 (Museology I: Museums, Purpose, and Function) .......................................................... 3
Art History 376 (Seminar in Art History) .............. 3
Studio courses numbered 200 and above ............ 3

Total: 39 hours

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.

MAJOR IN STUDIO
Prerequisite: Art 101, 103, 295 .................................. 7
Art History 162, 172, 173, 183 (any two) and 3 additional hours .............................................. 9

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

Total: 40 hours

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

MINOR IN ART HISTORY
Prerequisite: Art History 172, 173, 183 ............... 9
(or their Honors equivalents)
Minor:
Art History courses numbered 200 and above .... 15

Total: 24 hours

MINOR IN STUDIO
Prerequisites: Art 101, 103, 295 .......................... 7
Art History 172, 173, 183 (any two) .................... 6
Studio courses which include a minimum of 8 additional upper-division hours.
Concentration may be Ceramics, Drawing, Media Arts, Painting-Watercolor, Printmaking, Sculpture or a combination from these areas 15

Total: 28 hours

PI BETA PHI ARROWMONT SCHOOL OF ARTS AND CRAFTS
Director:
S.J. Blain, M.F.A. Wisconsin

Arrowmont, located 40 miles from the UT Knoxville 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 School 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 School 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, alumni 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 Interdisciplinary Programs.

ASTRONOMY
See Physics and Astronomy.
Audiology and Speech Pathology

Professors:
S. Handel (Interim Head), Ph.D. Johns Hopkins; Peter Alfonso, Ph.D. Illinois; C.W. Asp, Ph.D. Ohio State; P.J. Carney, Ph.D. Iowa; D.M. Lipscomb (Adjunct), Ph.D. Washington; I.V. Nabelek (Emeritus), Ph.D. Czech Technical (Prague); H.A. Peterson (Emeritus), Ph.D. Illinois; B. Silverstein (Emeritus), Ph.D. Purdue.

Associate Professors:
S.B. Burchfield, Ph.D. Michigan State; C.J. Ferrell, M.A. Tennessee; M. Hedrick, Ph.D. Vanderbilt; P. Payne, Ph.D. Tennessee; Lori Swanson, Ph.D. Purdue; J. Thelin, Ph.D. Iowa.

Assistant Professors:
M. L. Erickson, Ph.D. Southern California; P. Flipsen, Ph.D. Wisconsin; A. Harkrider, Ph.D. Texas; G. McCullough, Ph.D. Vanderbilt; S. Newsom (Adjunct), Tennessee; J. Ruark, Ph.D. University of Pittsburgh.

Research Professor:
A. K. Nabelek (Emerita), Polish Academy of Sciences, Warsaw, Poland.

Research Coordinator:
Polly Alfonso, M.A. Southwest Missouri 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 certification in some aspect of speech, language, and hearing disorders. The master’s degree is required for professional certificates and employment positions. Information about the audiology and speech pathology programs may be obtained from the departmental office, 457 South Stadium Hall, and students are strongly encouraged to consult with the undergraduate advisors in the early years of their programs. Suggested elective courses for students not majoring in Audiology and Speech Pathology include 300, 302, 303, 305, 306, and 473.

The B.A. Major in Speech Pathology consists of Audiology and Speech Pathology 300, 302, 303, 305, 306, 320, 331, 433, 461, 473, and 494; and one course from the following courses: Linguistics 200, 371, 372, 411, 471, or 494.


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

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

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

Bacteriology

See Microbiology.

Biochemistry and Cellular and Molecular Biology

Professors:
R.M. Bagby, Ph.D. Illinois; J.M. Becker, Ph.D. Cincinnati; J. G. Carlson (Emeritus), (Distinguishing Prof.), Ph.D. Pennsylvania; J.E. Churchich, Ph.D. Sheffield; M.A. Handel (Distinguishing Prof.), Ph.D. Kansas State; B. Hochman (Emeritus), Ph.D. California; K.W. Jeon, Ph.D. London; J.G. Joshi, Ph.D. Poona; D.C. Joy (Distinguishing Scientist), Ph.D. Oxford (UK); J.R. Kennedy, Ph.D. Iowa; J.W. Koontz, Ph.D. Kentucky; J.N. Liles (Emeritus), Ph.D. Ohio State; J.A. MacCabe, Ph.D. California (Davis); B.D. McKee (Head), Ph.D. Michigan State; K.J. Monty, Ph.D. Rochester; D.M. Roberts, Ph.D. California (Davis); L.E. Roth (Emeritus), Ph.D. Chicago; T.P. Salo (Emeritus), Ph.D. Michigan; C.A. Shivers, Ph.D. Michigan State; H.G. Welch (Emeritus), Ph.D. Florida; G. L. Whitson (Emeritus), Ph.D. Iowa; W.D. Wicks, Ph.D. Harvard.

Associate Professors:
B. Bruce, Ph.D. California (Berkeley); R. Ganguly, Ph.D. Nebraska; J.C. Hall, Ph.D. Illinois; E.E. Howell, Ph.D. Lehigh; C.B. Peterson, Ph.D. LSU; R.A. Prosser, Ph.D. Illinois; E.H. Serpersu, Ph.D. Hateceppe.

Assistant Professors:
C. C. Dealwis, Ph.D. London; R. H. Feinberg (Emeritus), Ph.D. California (Berkeley); J. Park, Ph.D. Texas.

Students wishing to emphasize study in this area elect to major in Biology with a concentration in Biochemistry and Cellular and Molecular Biology. See the description of the Biology Major under “Division of Biology” for requirements.

Division of Biology

Director:
John Koontz, Ph.D. Biochemistry and Celluloy and Molecular Biology.

Basic Faculty:

The Biological Sciences major offers four areas of concentration: Biochemistry and Cellular and Molecular Biology; Ecology and Evolutionary Biology; Microbiology; and Plant Biology. (See section C. below for information on honors options.) The name of the major will be Biological Sciences: [Concentration Name].

The requirements are as follows:

A. Prerequisites to All Concentrations
1. Chemistry 120-130
2. Physics 221-222
3. Math 141-142 or 151-152
4. Biology 130 or Botany 110-120
5. Biology 140-240-250
B. Progression Requirement
A cumulative GPA of at least 2.5 in prerequisite science and math courses is required both to declare and to continue as a Biological Sciences major. Students wishing to declare a major in Biological Sciences will be assigned a faculty advisor in one of the biological sciences departments in consultation with the student. Declaration of a Biological Sciences major should occur as soon as the student decides on this course of study but not later than three semesters before the expected graduation date. This is necessary in order to ensure that requirements can be met in a timely manner as not all courses are taught every year.

C. Honors Major
An honors option is presently available in Biochemistry and Cellular and Molecular Biology; Ecology and Evolutionary Biology; Microbiology; and Plant Biology concentration areas. Requirements for honors options are listed with the appropriate concentration areas.

D. Concentration Area Requirements
Biochemistry and Cellular and Molecular Biology (BCMB) Additional prerequisite: Computer Science 100. The concentration consists of Chemistry 350-360-369, BCMB 401-402, and at least 18 additional credit hours selected from BCMB courses numbered 300 or above (except BCMB 310 and 410), or from the following courses in other departments: Microbiology 310-319, 411, 420-429, 430, 440; Botany 321, 404; EEB 350, 360, 460. At least two of the 18 credit hours must be selected from the following laboratory courses: BCMB 403, 416, 419, 429 and 452, and Biology 401. At least three of the 18 credit hours must be selected from the following physiology courses: BCMB 440, Botany 321, and Microbiology 310. No more than 9 of the 18 credit hours may be in non-BCMB courses.

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

Ecology and Evolutionary Biology
The concentration consists of:
1. Chemistry 350-360-369 or 350, 310-319 or Chemistry 310-319 and BCMB 310.
2. Quantitative Requirement: One course from (note math prerequisites):
   Math 231 Differential Equations (3) (Prereq. 141-142)
   Math 251 Matrix Algebra I (3) (Prereq. 141-142)
   Math 405 Models in Biology (3) (Prereq. 141-142 or 151-152)
Statistics 201 Introduction to Statistics (3)
Note that Math 141-142 is recommended for students with a strong interest in quantitative ecology and is prerequisite to several requirements that satisfy the EEB Quantitative Requirement.
3. Upper Division courses: A total of 24 additional hours is required at the 300 level or above to include at least 15 hours from EEB, and at least one course from each of the following four categories:

Evolution
EEB 460 Evolution
BOT 403 Plant Evolution
Ecology
EEB 446 Oceanography
EEB 470 Aquatic Ecology
EEB 480 Entomology
EEB 431 Plant Ecology
MICRO 470 Microbial Ecology
Organismal Biology
EEB 350 Vertebrate Biology
EEB 360 Invertebrate Biology
EEB 380 Entomology
EEB 450 Comparative Animal Behavior
EEB 474 Ichthyology
EEB 461 Special Topics in Organismal Biology
BOT 310 Plant Morphology
BOT 330 Field Botany
MICRO 310/319 Introduction to Microbiology/ Introductory Lab

Physiology
BOT 321 Introduction to Plant Physiology
BCMB 440 General Physiology
BCMB 415 Neurobiology
MICRO 310 General Microbiology
4. The remaining hours for the EEB concentration can include any of the remaining EEB courses on these lists, other Upper Division EEB courses, or appropriate Upper Division courses offered by the following departments: Anthropology; Botany; Forestry, Wildlife and Fisheries; Geography; Geology; Microbiology; Plant and Soil Sciences. A list of approved appropriate courses may be obtained from the office of either the Division of Biology or EEB. Other courses, related to the student's determined interests, may be approved by petition to the department and the Division. Courses applied to the major must include at least 4 hours at the 400-level and one laboratory course.
Requirements for the honors option are as follows:
(a) fulfill all requirements for the Biological Sciences: EEB major; (b) maintain a GPA of 3.5 in all the 300-level and above courses from the concentration and an overall GPA of 3.2; (c) pass a minimum of 4 hours of EEB 400, Undergraduate Research, during the junior and senior years; (d) pass EEB 401, Senior Thesis; and (e) pass EEB 490, Undergraduate Seminar.

Microbiology
The microbiology concentration consists of Chemistry 350-360-369, BCMB 410, Microbiology 310-319, 320-329, and 12 additional hours of 400-level Microbiology courses.
An honors option is offered to selected students who have completed the required 300-level Microbiology courses with a minimum grade point average of 3.5 in Microbiology courses and 3.2 for all courses. In addition to these 300-level courses, an honors major requires successful completion of 15 additional hours of 400-level Microbiology courses, including 401 and 402.

Plant Biology
The Plant Biology concentration may be obtained by completing the Biological Sciences prerequisites and Chemistry 350-360-369 or 350, 310-319 or 310-319, BCMB 310, and the following Botany courses:
Botany 310 (4)
Botany 321 (4)
Botany 330 (4)
Botany 403, 404 or 431 (3) or (4)
Botany 400, 441, or 442 (2) plus 9 additional hours of other Upper Division courses offered by Botany or other life science departments (except Botany 305, 306, or 309). A list of approved courses from other life science departments is available in the Division of Biology office.

Requirements for an honors option are as follows:
a) Maintain a GPA of 3.5 in all the 300-level and above courses from the concentration and an overall GPA of 3.2. b) Pass a minimum of 4 hours of Botany 411-442 (undergraduate research) during the junior and senior year; and c) Write a senior thesis that is acceptable to the student’s committee. Students interested in pursuing an honors option should contact the Botany office for details.

A minor includes the following prerequisites and requirements: Prerequisites are Botany 110-120 or Biology 130-140; and Chemistry 120-130. Requirements are Biology 240 and 250; and at least 8 hours chosen from 300- and 400-level courses in Biochemistry, Cellular and Molecular Biology; Botany; Ecology and Evolutionary Biology; and Microbiology. In meeting the upper-division minimum requirement, not more than 6 hours may be credited from any one biological science department, and not more than 3 hours of undergraduate research may be credited.

BOTANY
Professors:  E. E. Schilling (Head), Ph.D. Indiana; J. D. Caponetti (Emeritus), Ph.D. Harvard; E. E. Clebsch (Emeritus), Ph.D. Duke; H. R. DeSelm (Retired), Ph.D. Ohio State; A. M. Evans (Emeritus), Ph.D. Michigan; W. R. Herndon (Emeritus, Alumni Distinguished Service Professor), Ph.D. Vanderbilt; L. G. Hickok, Ph.D. Massachusetts; R. W. Holton (Emeritus), Ph.D., Michigan; K. W. Hughes, Ph.D. Utah; B. C. Mullin, Ph.D. North Carolina State; R. H. Petersen (Distinguished Professor), Ph.D. Columbia; O. J. Schwarz, Ph.D. North Carolina State; P. L. Walne (Emeritus), Ph.D. Texas.

Associate Professors:  C.C. Amundsen, Ph.D. Colorado; A.S. Heilman (Emeritus), Ph.D. Cornell State; M. Negligucci, Ph.D. Connecticut; D.K. Smith, Ph.D. Tennessee; B.E. Wofford (Curator of Herbarium), Ph.D. Tennessee.

Assistant Professors:  M. B. Cruzan, Ph.D. SUNY (Stony Brook); A. von Arnim, Ph.D. East Anglia, United Kingdom; R.L. Small, Ph.D. Iowa State.

Lecturer:  K.D. McFarland, Ph.D. Tennessee.

Students wishing to emphasize study in this area elect to major in Biology with a concentration in Plant Biology. See the description of the Biology Major under “Division of Biology” for requirements.

CHEMISTRY
Professors:  M.J. Sepaniak (Head), Ph.D. Iowa State; J.L. Adcock, Ph.D. Texas; S.D. Alexandratos, Ph.D. California (Berkeley); D.C. Baker, Ph.D. Ohio State; J.E. Bartmess, Ph.D. Northwestern; J.E. Bloor (Emeritus), Ph.D. Manchester (England); W.E. Bull (Emeritus), Ph.D. Illinois;
CURRICULUM REQUIREMENTS

Freshman

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<tr>
<th>Course</th>
<th>Hours</th>
<th>Credit</th>
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<tbody>
<tr>
<td>Chemistry 120-130 or (preferably) 128-138</td>
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<td>8</td>
</tr>
<tr>
<td>Mathematics 141-142</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>English Composition</td>
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<td>6</td>
</tr>
<tr>
<td>Foreign Language (intermediate level sequence)</td>
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Sophomore

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<tr>
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<tr>
<td>Chemistry 240</td>
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<tr>
<td>Chemistry 230</td>
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<tr>
<td>Chemistry 350-360</td>
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<tr>
<td>Mathematics 141-142</td>
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<td>8</td>
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<tr>
<td>Mathematics 241 and either 231 or 251</td>
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<td>7</td>
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<tr>
<td>Physics 135-136 or 137-138</td>
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<td>Distribution</td>
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Junior

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<td>Chemistry 310-320</td>
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<tr>
<td>Chemistry 319-329</td>
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</table>

Chemistry 473-483                             | 6      |
Chemistry 479-489                             | 4      |
Distribution                                   | 9      |
Electives                                      | 3      |
Senior

Chemistry 430                                | 3      |
Chemistry 439                                | 1      |
Chemistry 430                                | 3      |
BCMB 410 or 401                              | 3-4    |
Chemistry Electives                           | 3      |
Distribution                                  | 9      |
Electives                                     | 9      |

Total: 125-132 hours

1 Preferably chosen from German, French, Russian; or Japanese.
2 The College of Arts and Sciences must have a student demonstrate intermediate-level competence in whatever foreign language is chosen.
3 The distribution requirements of the College of Arts and Sciences are satisfied by taking: Non-U.S. History (6 hours), Social Science (6 hours), Humanities (6 hours), and Upper Level Distribution (3 hours in either U.S. Studies or Foreign Studies and 3 hours Capstone Experience).
4 To be chosen from Chemistry 400, 401, 408, 450, and 490.

B.S. Degree and Chemistry Major

For students wishing to major in chemistry but desiring a more flexible course of study than the B.S. in Chemistry, there is a regular B.S. degree. Before entering the program, two programs are designed for students with different career goals, the following paragraphs should be carefully considered before selecting courses. A student who decides to major in chemistry should ask the Arts and Sciences Advising Center for assignment of a faculty advisor in the Department of Chemistry. For further information, contact the Head of the Department of Chemistry, 575 Buehler Hall. For information concerning the Cooperative Program in chemistry, see description of the B.S. program below.

Placement in General Chemistry Sequences

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

**Placement Examination**

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

**Proficiency Examinations**

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

**COMPARATIVE LITERATURE**

See Interdisciplinary Programs.

**COMPUTER SCIENCE**

**Professors:**

Robert C. Ward (Head), Ph.D. Virginia; Jack Dongarra, Ph.D. New Mexico; M.A. Langston, Ph.D. Texas A&M; J.H. Poore, Ph.D. Georgia Tech; G.R. Sherman (Emeritus), Ph.D. Purdue; Michael G. Thomson, Ph.D. Duke.

**Associate Professors:**

M.W. Berry, Ph.D. Illinois; J. Gregor, Ph.D. Aalborg (DK); B.J. MacLennan, Ph.D. Purdue; J.S. Plank, Ph.D. Princeton; Padma Raghavan, Ph.D. Pennsylvania State; M.D. Vose, Ph.D. Texas; B.T. Vander Zanden, Ph.D. Cornell.

**Assistant Professors:**

D.W. Straight, Ph.D. Texas; R. M. Wolski, Ph.D. U.C. Davis.

**Instructor:**

J. Wallace Mayo, M.S. Tennessee.

**Major Prerequisites to the major include**

Computer Science 102, 140, 160; Math 141-142; and a two semester laboratory science sequence (Physics 135-136 or Biology or Chemistry or a sequence approved by the Computer Science Department). The major consists of 302, 311, 365, and 380; two of the three courses 340, 360, and 370; Math 241, 251, and 300; English 360, and either an additional 9 hours of upper division Computer Science or an additional 6 hours of upper division Computer Science and Math 231.

It is highly recommended that all Computer Science majors own a personal computer with communications capability.

**Minor**

An undergraduate minor consists of Computer Science 140 and 160, plus 15 hours of 300 and 400 level courses.

**Progression Standards**

Progression into the Computer Science major is based on the availability of space in the laboratories and other resources. Progression requirements are adjusted periodically and current requirements can be determined by consulting with an advisor in the Undergraduate Programs office or by contacting the Computer Science Department directly. Students who enter the College of Arts and Sciences as freshmen or sophomores are expected to apply for the major immediately after attempting 12 hours in Computer Science.

**Recent Progression Standards:**

1. Has completed at least the following three courses at UTK with an average of 3.0 or better: CS 102, 140, and 160 for UTK students. Transfer students' work will be evaluated individually.

2. Has achieved an average of 2.5 or better in all Computer Science courses taken at UT that apply to the major. All grades received for these courses are averaged.

3. Has received at most one W or repeated grade in a Computer Science course.

4. Has not been disciplined for academic dishonesty in a Computer Science course or for abuse of university computing privileges.

**Progression standards are subject to change; current standards are available in the Undergraduate Programs Office and the Computer Science Department office, 107 Ayres Hall.**

**Transfers from Other UTK Programs**

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

**Transfers from other Institutions**

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

**Appeals**

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

**ECOLOGY AND EVOLUTIONARY BIOLOGY**

**Professors:**

T.G. Hallam (Head), Ph.D. Missouri; C.R.B. Boake, Ph.D. Cornell; D.L. Bunting, II, Ph.D. Oklahoma State; G.M. Burghardt Ph.D. Chicago; H. Delcourt, Ph.D. Minnesota; P.A. Delcourt, Ph.D. Minnesota; A.C. Echternacht, Ph.D. Kansas; D.A. Etnier, Ph.D. Minnesota; N.B. Greenberg, Ph.D. Rutgers; L.J. Gross, Ph.D. Cornell; W.F. Harris, III, Ph.D. Tennessee; J.F. McConkie (Emeritus), Ph.D. Emory; G.F. McCracken, Ph.D. Cornell; M.L. Pan, Ph.D. Pennsylvania; S.E. Riechert, Ph.D. Wisconsin; G.S. Sayler, Ph.D. Idaho; T.W. Schultz, Ph.D. Tennessee; D. Simberloff (Goor Hunger Chair of Excellence), Ph.D. Harvard; G. Stacey, Ph.D. Texas (Austin); G.L. Vaughan (Emeritus), Ph.D. Duke.
Associate Professors: Amundsen, C.C., Ph.D. Colorado; J.A. Drake, Ph.D. Purdue; D.J. Fox, Ph.D. Johns Hopkins; S. Gavrielides, Ph.D. Moscow State; M. Pigliucci, Ph.D. Connecticut.

Assistant Professors: M.B.C. Cruzan, Ph.D. SUNY (Stony Brook); J. Weltzin, Ph.D. Arizona.

Students wishing to emphasize study in this area elect to major in Biology with a concentration in Ecology and Evolutionary Biology. See the description of the Biology Major under “Division of Biology” for requirements.

**ECONOMICS**

See faculty listing the College of Business Administration.

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

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

**Requirements for a B.A. Major in Economics** consist of (1) Economics 201 or equivalent honors courses as a prerequisite to the major and (2) Economics 311, 313, and 499 plus 18 additional hours in upper division economics courses. Majors are encouraged to satisfy List B of the Natural Science Distribution Requirement with one of the mathematics packages Mathematics 115-123, 123-125, or 141-142. Students planning graduate work in Economics should elect Mathematics 141-142.

A minor consists of (1) Economics 201; (2) 12 additional hours at the upper-division level. Minors are encouraged to include Economics 311 and 313.

**Honors**

The Department of Economics offers an honors B.A. degree. Candidates for the honors degree must complete 311, 313, 499, and 18 additional upper division hours, including registering for three hours of 493 Independent Study, which is the writing of an honors thesis. Students interested in the honors degree should contact the department for details.

In addition, certification to teach economics in secondary schools is available. Students with such interest should consult the Certification Clerk, Room 212, Claxton Education Building as early in their program as possible to determine the appropriate requirements.

**ENGLISH**

Professors: D.A. Carroll (Head), Ph.D. North Carolina; P.G. Adams (Young Professor Emeritus), Ph.D. Texas; E.W. Britton (Emeritus), Ph.D. Illinois; D.R. Cox (Associate Head, Young Professor), Ph.D. Missouri; R.Y. Drake, Jr. (Emeritus), Ph.D. Yale; A.R. Dunn, Ph.D. Washington; A.R. Ensrud, Ph.D. Indiana; R.J. Finneman (John C. Hodges Professor), Ph.D. North Carolina; J.H. Fisher (John C. Hodges Professor Emeritus), Ph.D. Pennsylvania; S.B. Garner, Jr., Ph.D. Princeton; J.E. Gill (Emeritus), Ph.D. North Carolina; D.F. Goslee, Ph.D. Yale; N.M. Goslee (Alumni Distinguished and Young Professor), Ph.D. Yale; T.J.A. Heffernan (Curry Professor), Ph.D. Cambridge; M. Kallet, Ph.D. Rutgers; M.L. Keene, Ph.D. Texas; R.M. Kelly (Young Professor), Ph.D. Duke; B.J. Leggett (Hockaday Professor); Ph.D. Florida; A. Leki, Ph.D. Florida; S. Lofaro, Ph.D. Maryland; C. Maland (Young Professor Emeritus), Ph.D. Michigan; A.R. Penner (Emeritus), Ph.D. Colorado; J.E. Reese (Emeritus), Ph.D. Kentucky; N.J. Sanders (Young Professor Emeritus), Ph.D. Shakespeare Institute, Stratford-on-Avon; D.J. Schneider (J. Douglas Bruce Professor Emeritus), Ph.D. Northwestern; D.M. Scura, Ph.D. North Carolina; W.R. Shurr (Humanities Professor Emeritus), Ph.D. North Carolina; B.T. Stewart (Emeritus), Ph.D. Northwestern; R.E. Stillman, Ph.D. Pennsylvania; J.B. Trahren, Jr. (Alumni Distinguished Professor), Ph.D. Princeton; T.V. Wheeler (Emeritus), Ph.D. North Carolina; J.M. White (Young Professor Emeritus), M.A. Cambridge; N. Wright (Emerita), Ph.D. Yale; J.P. Zomchick, Ph.D. Columbia.


**Rhetoric and Writing** (1) a three-course package in rhetoric and writing; (2) one other course in rhetoric or writing; (3) four courses in literature, two of which must be before 1900, and at least one of those before 1800; (4) one course in language, theory, cultural, ethnic, or gender studies; (5) one course from any of the department’s offerings, including criticism, film, folklore, language, literature, rhetoric, and writing.

**Technical Communications** (1) a three-course package in technical communications; (2) one other course in rhetoric or writing; (3) four courses in literature, two of which must be before 1900; (4) one course in language, theory, cultural, ethnic, or gender studies; (5) one course from any of the department’s offerings, including criticism, film, folklore, language, literature, rhetoric, and writing.

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

**Individualized Program**

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, junior and senior levels. The freshman and sophomore honors courses are enriched versions of regular sections in composition, and in American and British literatures. To be given “Honors” in English on the transcript, a student must have achieved a 3.0 or better GPA, a 3.5 or better grade point in English courses, and grades of A or B in English 398 and 498.

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

An English Minor with Technical Communication Emphasis consists of at least 15 semester hours of English courses chosen from the following: (1) at least three courses in technical communication, and at least one course from 360, 460, 462, 466, or any special topics course being offered in technical communication; (2) one course in expository writing, argumentative writing, language, rhetoric, or another technical communication course (chosen from 360, 362, 371, 372, 455, 460, 462, 466, 470, 471, 472, 484, 485, 495, 496, and (3)) other one 300 or 400 level English course.

**Certification for Teaching**

Students planning to teach English in public schools should consult the Certification Clerk, 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 in general 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 Modern Foreign Languages and Literatures.

**GEOGRAPHY**

Professors: C.S. Aiken, Ph.D. Georgia; T.L. Bell, Ph.D. Iowa; R.A. Foresta, Ph.D. Rutgers; E.H. Hammond (Emeritus), Ph.D. California (Berkely); C.P. Harden, Ph.D. Colorado (Boulder); S.P. Horn, Ph.D. California (Berkely); S.R. Jumper, Ph.D. Tennessee; R.G. Long (Emeritus), Ph.D. Northwestern; C.W. Minkel (Head, Urban and Regional Planning), Ph.D. Syracuse; L.M. Pulipher, Ph.D. Southern Illinois; B.A. Ralphson (Head), Ph.D. Northwestern; J.B. Reher, Ph.D. Louisiana State; T.H. Schmudde (Emeritus), Ph.D. Wisconsin; T.J. Wilbanks (Adjunct), Ph.D. Syracuse.

Associate Professors: T.J. Blasing (Adjunct), Ph.D. Wisconsin; L.W. Brinkman (Emeritus), Jr., Ph.D. Wisconsin; M.A. Brown (Adjunct), Ph.D. Ohio State; Cheng Liu (Adjunct), Ph.D. Tennessee; Kenneth Orvis, Ph.D. California (Berkely); S.L. Shaw, Ph.D. Ohio State.

Assistant Professors: Henri Grisinos-Mayer, Ph.D. Arizona; Glen Harrison (Adjunct), Ph.D. Tennessee; R. McKeeoun (Adjunct), Ph.D. Oregon.

**B.A. Major** Geography 131 and 132 are prerequisite to a major in Geography, which consists of Geography 310, 320, 340, 411 or 415, 499, and 12 additional credits selected from Geography courses at the 300 and 400 levels. At least one course must be chosen from among Geography 361, 363, 365, 371, 372, 373, 375, and 379 and at least 9 hours must be at the 400 level. No more than 3 hours of Geography 490 may be counted toward the major.

Students who enter the major with more than 60 hours of credit, and who have completed a laboratory science sequence other than Geography, may petition the department to substitute certain upper division physical geography courses for 131 and/or 132.

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

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

**GEODETICAL SCIENCES**

Professors: W.M. Dunne (Head), Ph.D. Bristol; T.W. Broadhead, Ph.D. Iowa; D.W. Byerly (Emeritus), Ph.D. Tennessee; S.G. Driese, Ph.D. Virginia; R.D. Hatcher (UT Knoxville/ ORNL Distinguished Scientist), Ph.D. Tennessee; O.C. Kopp (Emeritus), Ph.D. Columbia; T.C. Labotka, Ph.D. Caltech; H.Y. McSween (Distinguished Professor of Science), Ph.D. Harvard; K.C. Misra, Ph.D. Western Ontario; L.A. Taylor, Ph.D. Lehigh; K.R. Walker, Ph.D. Yale.

**Associate Professors:**
G. M. Clark, Ph.D. Pennsylvania State; P.A. Delcourt, Ph.D. Minnesota; L.D. McKay, Ph.D. Waterloo; M.L. McKinney, Ph.D. Yale; C.I. Mora (Carden Professor), Ph.D. Wisconsin; R.T. Williams, Ph.D. V.P.I.

**Assistant Professors:**
L.C. Kah, Ph.D. Harvard; Maria Uhle, Ph.D. Virginia.

**Prerequisites to a B.S. Major** are Geology 101-102; Chemistry 120-130; Mathematics 141-142 or 147-148; plus one two-semester sequence and one additional course from Physics 125-136 and Biology 130-140. Geology majors must attend the UT field camp or an approved equivalent elsewhere. (For equivalent camps, prior approval by the Department on an individual-case basis is required.)

**Major Requirements** Geology 310, 320, 330, 340, 370, and 440 (22 hours); plus 12 additional hours of geology courses at the 400 level. Geology majors must attend the UT field camp or an approved equivalent elsewhere. (For equivalent camps, prior approval by the Department on an individual-case basis is required.)

**Minor Requirement** Consists of Prerequisites: Geology 101 and 102 or 103. Geology courses: at least 16 hours of courses numbered 300 or higher, excluding 303 and 401. A maximum of 3 hours of 493 may be counted toward the minor.

**Concentration in Engineering Geology** Students wishing to prepare for a career in environmental/engineering geology, where communication with engineers is important, may elect this multidisciplinary concentration. Electives in the major and some of the courses necessary to satisfy the Arts and Sciences College Distribution requirements are specified. Required coursework includes: Geology 310, 320, 330, 340, 370, 440, 455, 460, 470 and 485; Mathematics 141, 142, (or equivalent honors courses) and 231 (or substitution of Geology 401 for Math 231); Physics 231; Basic Engineering 101, 121, and 131; Civil Engineering 330, 435 and any one of the following: 390, 440, 450, 530 or Environmental Engineering 535; Plant and Soil Science 210; English 481; and Speech 240. Courses from the College's approved lists for satisfying the Social Sciences, Humanities and Upper Level Distribution requirements will be recommended and approved by the student's advisor.

**Associate Professors:**
S.V. Ash, Ph.D. Tennessee; S.D. Becker (Emeritus), Ph.D. Case Western Reserve; J.D. Bing (Emeritus), Ph.D. Indiana; R. J. Bast, Ph.D. Arizona; J. Bohstedt, Ph.D. Harvard; T.E. Burman, Ph.D. Toronto; T.A. Diacon, Ph.D. Wisconsin; C. Higgs, Ph.D. Yale; P.J. Pinckney, Ph.D. Vanderbilt.

**Assistant Professors:**
J. Appier, Ph.D. California (Riverside); K. Brosnan, Ph.D. Chicago; J.P. Dessel, Ph.D. Arizona; L. Glover, Ph.D. Kentucky; V.G. Lulieviecius, Ph.D. Pennsylvania; G.K. Pielcher, Ph.D. Rutgers; J. Sahadeo, Ph.D. Illinois.

The department's program is designed to provide students with a knowledge of their cultural traditions and of their world, past and present, and thus to prepare them for the responsibilities of citizenship in today's complex society. Students take history courses to develop their skills in thinking, reading, writing and speaking; to understand the links between past, present and future; and to assist them in their search for personal identity.

**B.A. Major** Majors in history should prepare their programs in consultation with a department faculty advisor. A student may not declare a history major until he/she has completed both semesters, with a grade of C- or better in each course, of a survey chosen from the following: 221-222, 227-228, 241-242, 247-248, 261-262; or any two one semester courses from any of these sequences. AP (with a score of 4...
The Department of History offers honors sections of the Western Civilization and United States history survey courses. Some entering freshmen are invited to participate; other interested students may apply. These survey courses are open to non-majors. A grade of C+ or less in any part of the freshman-sophomore honors sequence will render the student ineligible for further honors work in history. The history major requires successful completion of 307 and a senior thesis (407-408) with a grade of B or above. Altogether the honors major consists of 33 hours, including 30 hours as outlined in the B.A. Major above, plus 307. All juniors who are declared history majors with an overall GPA of 3.0 or above, plus 307. All juniors who are declared history majors with an overall GPA of 3.0 are invited to join the Junior-Senior Honors Program. Students interested in honors work at any level should consult the department’s honors coordinator.

**American Studies**

Chair: Benita J. Howell, Anthropology.

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

All majors and prospective majors should contact the Chair of the program.

The **American Studies Minor** consists of at least 15 hours of coursework chosen from the program’s list of electives, including American Studies 310, American Studies 410, and nine additional hours from at least two different disciplines.

**Asian Studies**

Chairs: Rosalind Gwynne, Religious Studies; Yang Zhong, Political Science.

The **Asian Studies Major Concentration** consists of 26 credit hours from the upper-division courses of Asian Studies and approved departmental offerings. Twelve of the hours must be taken from courses listed within one of the four geographical-cultural areas (Islamic World; South Asia; China; Japan), and 6 of those 12 hours must come from Subdivision A and 6 from Subdivision B. Subdivision A includes Art, Literature, Music, Philosophy, and Religious Studies; Subdivision B includes Anthropology, Economics, Geography, History, Political Science, and Sociology.

Six of the 26 hours must be taken from courses listed for other geographical-cultural areas. 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. Twelve credit hours must be taken from courses within one of the four geographical-cultural areas. Six credit hours must come from Subdivision A and 6 from Subdivision B. Three hours must be taken from courses in another geographical-cultural area.

**Cinema Studies**

Chair: Christine Holmlund, Modern Foreign Languages and Literatures.

The **Cinema Studies Minor** consists of 15 hours, including Cinema Studies 281; 3 hours chosen from Cinema Studies 235, 236, or Broadcasting 330; and 9 additional hours from any courses in Cinema Studies. Courses cross-listed with Cinema Studies, or from the following list of approved courses: Broadcasting 275 Introduction to Broadcasting (3); Broadcasting 330 Audio/Video Production (3); Broadcasting 430 Electronic Field Production (3). It is strongly recommended that Cinema Studies 281 Introduction to Film Studies be taken before any other courses in the minor.

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

**Comparative Literature**

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

A **Major Concentration in Comparative Literature** consists of 27 hours including Comparative Literature 202 and 401-402, and 9 hours of literature in a foreign language in courses numbered 300 or above. The remaining 9 hours should include literature courses, either in English or in a foreign language, numbered 300 or above, from at least two of the following departments: Classics, English, Modern Foreign Languages and Literature, and Religious Studies. Certain courses in Philosophy, Theatre, and Interdisciplinary Programs may be substituted with the approval of the chairperson of the Comparative Literature Program. 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 202 and either Comparative Literature 401 or 402, 6 hours of literature in a foreign language in courses numbered 300 or above, and 6 hours of literature courses numbered 300 or above in a different department. These 6 hours may be either in English or in a foreign language and should be chosen from the following departments: English, Modern Foreign Languages and Literatures, and Religious...
LANGUAGE AND WORLD BUSINESS
For a complete list of requirements, see Modern Foreign Languages and Literatures.

LATIN-AMERICAN STUDIES
Chair: Todd Diacon, History.

The Major Concentration consists of two optional tracks: (1) General Studies or (2) Brazilian Studies. Each program requires 27 hours, of which 12 are in core courses, including Latin American Studies 401 and 402, three hours of either History 360 or 361, and three hours of an approved Spanish or Portuguese literature/culture course at either the 300 or 400 level. In addition to the core courses, the General Studies track will consist of fifteen hours selected from courses offered by three different participating departments. The Brazilian Studies track will consist of fifteen hours beyond the core courses including a minimum of six hours in UTK’s Summer Study Program in Fortaleza, Brazil (or other programs in Brazil approved by the director of Latin American Studies) and up to nine hours of approved courses that focus on Brazil. 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 is a prerequisite for majors and minors. All students are strongly encouraged to earn credit hours through UT’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 the Chairperson of the Latin American Studies Program.

LEGAL STUDIES
Chair: James A. Black, Sociology.

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

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

The concentration consists of 27 hours, including Sociology 455 Society and Law and 24 hours of upper division courses distributed among five categories: (1) analysis—3 hours from Communications 300, English 496, Sociology 331; (2) processes—Sociology 451, and 3 hours from Political Science 430,442; (3) perspectives—3 hours from English 490, Political Science 330, Psychology 424; (4) historical and global dynamics—3 hours from Classics 362, Political Science 470; (5) issues—6 hours from Communications 400, Philosophy 344, Political Science 431, Speech Communication 469, Women’s Studies 340. The remaining three hours are to be chosen from one of the five categories or an approved elective.

Students should consult program advisors early in planning a Legal Studies major. It is strongly recommended that Sociology 455 Society and Law, be taken before selecting electives. Other law-related courses consistent with the purposes and objectives of the major may be approved through consultation with the Chair of the Legal Studies Committee.

LINGUISTICS
Chair: Bethany K. Dumas, English.

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 areas where linguistics 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. Linguistics 200 is highly recommended. Audiology and Speech Pathology 305 should be taken as soon as possible. Other 300-level courses should, if possible, be completed before 400-level courses are begun.

Corequisites (a) Completion of a third year of foreign language study (literature) which satisfies the Foreign Studies option to fulfill the upper-level distribution requirement (required). (b) 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); five courses from non-Indo-European language sequences approved by the Linguistics Committee (required).

Concentration 30 hours distributed as follows: (a) 21 hours composed of Audiology and Speech Pathology 305, English 371, 372, and 471; French, German, Russian or Spanish
Committee chairperson.

advance by the Medieval Studies Coordinating gram, major or minor, must be approved in

ational hours distributed among the categories

 Medieval Studies 201 and 403 and 12 addi-
in one of the traditional disciplines.

are strongly advised to supplement their Medi-

studies in graduate school. In addition,

and is essential for those who plan to continue

ition and expression.

its conditions of life, social and political institu-

by studying a very different and remote culture,

deepen one's view of the range of human possibilities

Such a concentration offers the opportunity to

lapse of the Roman Empire to the 16th century.

focuses upon culture and society from the col-

pairs in the history of art and architecture).

Courses should either from a related pattern

required for the major are Urban Studies 250,

107, and Sociology 110 or 120. Courses

lem solving in an urban context, or the nature

Prerequisites to the program are Economics

as its

course (either 210 or 215), Women in Society

220), Emergence of the Modern American

Woman (310), at least three hours of Indepen-

dent Study (493), and at least one course from

each of the three major areas: Women's

Heritage (383, 432, 453, 466, 483), Contem-

orary Issues (375, 382, 410, 425, 434), and Lit-

erature 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-di-

vision Women's Studies courses. Approved spe-

tial topics courses related to Women's Studies

may also be applied toward a major or a minor.

ITALIAN

See Modern Foreign Languages and Literatures.

JAPANESE

See Modern Foreign Languages and Literatures.

JUDAIC STUDIES

See Interdisciplinary Programs.

LATIN

See Classics.

LATIN AMERICAN STUDIES

See Interdisciplinary Programs.

LEGAL STUDIES

See Interdisciplinary Programs.

LINGUISTICS

See Interdisciplinary Programs.

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: Audi-
ology 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). Note: In addition to the above listed courses for the concentration and 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

Chair:

Laura L. Howes, English.

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) art, archaeology, history, philosophy, architecture, music, and speech and theatre. Courses should either from a related pattern (for example, courses in the literature and history of Medieval England or Italy), or should revolve around a particular discipline or two closely related disciplines (for example, courses in the history of art and architecture).

A concentration in Medieval Studies focuses upon culture and society from the collapse of the Roman Empire to the 16th century. Such a concentration offers the opportunity to deepen one's self-awareness and broaden one's view of the range of human possibilities by studying a very different and remote culture, its conditions of life, social and political institutions, values and ideals, and modes of perception and expression.

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

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.

Category #1 History, Philosophy, and
Political Science: History 312 Medieval His-
tory: 300-1100 (3); History 313 Medieval His-
tory: 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); Phi-
osophy 322 Medieval Philosophy (3); and Po-
itical 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 His-
tory 425 Early Christian and Byzantine Art to
1350 (3); Art 441 Northern European Painting,
1350-1600 (3); Art History 431 Medieval Art of
the West 800-1450 (3); Art History 451 The Art
of Italy, 1250-1400 (3); and Music History 210
History of Music to 1750 (3).

URBAN STUDIES

Chair:

James A. Spencer, Urban and Regional Planning

Urban studies involves the interdisciplinary study of cities and their regions. Faculty from Planning, Architecture, Geography, History, Political Science, Sociology, History, Business participate in the program which has variable emphases from the relationship of the individual to the environment, the process of problem solving in an urban context, or the nature of current urban issues.

Prerequisites to the program are Economics 201 or 207, Political Science 101 or 102 or 117, and Sociology 110 or 120. Courses required for the major are Urban Studies 250, 350 and 460, plus 3 hours from each of these groups:

Group 1–History and Theory: Architecture
410, Urban Studies 363, 401, 454
Group 2–Physical Issues and Design:
Urban Studies 323, 441, 464
Group 3–Planning and Policy: Planning
446, Urban Studies 321, 402

To complete the 30 hours required for the major, an additional 12 hours should be completed from any of the three groups or from the following list of approved courses: African and African-American Studies 480; Architecture 403, 404, 405; Classics 334; Economics 323, 361, 462, 471, 472; Geography 310, 411, 412, 449; Logistics and Transportation 302; Marketing 310, 320; Political Science 340; Sociology 340, 343, 344, 345, 360, 442, 462; Speech Communication 420; Statistics 201; Urban Studies 450, 481, 482, 493.

A Minor in Urban Studies consists of 18 semester hours, including Urban Studies 250 and 350, plus additional semester hours from Group 1, 2, 3 or 4 above. For more information contact the chairperson of Urban Studies.
MATHMATICS

Professors: J.B. Conway (Head), Ph.D. Louisiana State; V. Alexiades, Ph.D. Delaware; D.F. Anderson, Ph.D. Chicago; J.S. Bradley (Emeritus), Ph.D. Iowa; R.J. Davenport, Ph.D. Wisconsin; D.E. Dobbs, Ph.D. Cornell; G. Dydak, Ph.D. D.2. Warsaw (Poland); H. Fransden (Emeritus), Ph.D. Illinois; L.J. Gross, Ph.D. Cornell; T.G. Hallam, Ph.D. Missouri; D.B. Hinton, Ph.D. Tennessee; L.S. Husch, Ph.D. Florida State; K. Johansson, Ph.D. Bielefeld, Germany; G. Samuel Jordan, Ph.D. Wisconsin; Ohannes Karakashian, Ph.D. Harvard; B.S. Kuperscheidt (UTS), Ph.D. M.I.T.; Suzanne Lenthart, Ph.D. Kentucky, Robert M. McConnel, Ph.D. Duke; Balram S Rajput, Ph.D. Illinois; S. Mulay, Ph.D. Purdue; S. Richter, Ph.D. Michigan; K.C. Reddy (Space Institute, Tullahoma), Ph.D. Indian Institute of Technology; J. Rosinski, Ph.D. Wroclaw University; P.W. Schauer, Ph.D. Maryland; S.M. Serbin, Ph.D. Cornell; Henry Simpson, Ph.D. California Institute of Technology; R.P. Soni, Ph.D. Oregon State; F.W. Stallman (Emeritus), Ph.D. Giessen (Germany); K.R. Stephenson, Ph.D. Wisconsin; C. Sundberg, Ph.D. Wisconsin; M. Thistlethwaite, Ph.D. University of Manchester (England); W.R. Wade, Ph.D. California (Riverside); C.G. Wagner, Ph.D. Duke.

Associate Professors: C. Collins, Ph.D. Minnesota; X. Feng, Ph.D. Purdue; A. Freire, Ph.D. Princeton; S. Gavrilits, Ph.D. Moscow State; Bo Guan, Ph.D. Massachusetts; K. R. Kimble (Space Institute, Tullahoma), Ph.D. Ohio State; Y. Kuo, Ph.D. Cincinnati; C. P. Plaut, Ph.D. Maryland; D.A. Polignone, Ph.D. Virginia; J. Smith, Ph.D. California (Berkeley); B. K. Soni (Space Institute, Tullahoma), Ph.D. Texas; J. Xiong, Ph.D. North Carolina, Chapel Hill.

Assistant Professors: X. Chen, Ph.D. Case Western Reserve; R. Davis, Ph.D. Tennessee; J. Dwyer, Ph.D. Ireland; Y. Kachi, Ph.D. Tokyo; G. Matthews, Ph.D. Louisiana State; T. Schulze, Ph.D. Northwestern; P. Tzemias, Ph.D. California (Berkeley).


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

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

Prerequisites to the Major are Mathematics 141-142 (or Honors version: 147-148) and 171 or 172.

Major Requirements consists of 37 semester hours of mathematics courses including (1) Math 231, 241 (or 247), 251 (or 257), 300 (or 307), and 300 (except 399, 400, 401, 405, 411 and 490) satisfying the following conditions:
1. At least one course must be taken from each of the following categories: Algebra: 351, 455-56 (457-58) Analysis: 341, 445-446 (447-48) Numerical Analysis: 371 or CS 370, 471-72 Probability Statistics: 323, 423-24 (423-25) 2. At least one 400 level two-semester sequence must be taken from the list above. 3. CS 311 and CS 380 may be used as upper division math electives in part (2).

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

INDUSTRIAL EMPLOYMENT

Senior
Mathematics 445-46 (or 447-48) and 455-55 (or 457-58) ......................................................... 12
Upper Level Distribution Requirement (may include Math 400 or 411) ........................................... 6
Electives (must include at least 7 upper division hours) .................................................................... 11
Total: 124 minimum hours

SECONDARY EDUCATION

Freshman
Mathematics 141-142 (or 147-148) and 171 ............ 11
English Composition .................................................... 6
Foreign Language (beginning level, preferably French, German, or Russian) ................................. 6-8
Lab Science Distribution Requirement ......................... 8
Sophomore
Mathematics 231, 241 (or 247), 251 or (257), and 300 ................................................................. 13
Non-US History Distribution Requirement ................. 6
Social Science Distribution Requirement .................. 3
Foreign Language (completion of secondary level) ................................................................. 6-8
Elective ........................................................................ 3
Junior
Mathematics 323, 351, 371, 371 .................................. 12
Humanities Distribution Requirement ..................... 6
Social Science Distribution Requirement .................. 3
Psychological Studies 210 ....................................... 3
Electives .................................................................... 8
Senior
Mathematics 445-46, 460, 421 (or 431) ..................... 12
Upper Level Distribution Requirement ...................... 6
Education 400, 401, 403 .............................................. 7
Education in the Sciences, Math, Research and Technology 304, 352, 355 .............................................. 5
Total: 124 minimum hours

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 nine courses (rather than eight) at the 300-400 level and take two 400 level two-semester sequences (rather than one). The grade point average computed on the nine 300-400 level courses mentioned above 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 more than nine courses at the 300-400 level may designate which courses will be used to compute these GPA's.

Minor Prerequisite to a minor is Mathematics 141-142 (or 147-148). The minor consists of (1) Math 231, 241, 251, 300 and (2) nine additional hours at the 300-400 level (except 399, 401, 405, and 490). CS 370 may be substituted for three of these hours. The grade in each of these courses must be at least C.

MEDIEVAL STUDIES

See Interdisciplinary Programs.
MEDICAL BIOLOGY/ MEMORIAL RESEARCH CENTER

The Department of Medical Biology of The University of Tennessee College of Medicine-Knoxville Unit was formed from the faculty of The University Memorial Research Center and Hospital in 1978. The Research Center was established in 1956. The faculty has research, education, and service interests in cancer, blood diseases, metabolism, neuroscience, birth defects, 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.

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: R.N. Moore (Head), Ph.D. Texas (Austin); R.W. Beck (Emeritus), Ph.D. Wisconsin; J.M. Becker, Ph.D. Cincinnati; D. Bemis, Ph.D. Cornell; D.A. Brian, Ph.D. D.V.M. Michigan State; T.C. Montie, Ph.D. Maryland; W.S. Riggsby, Ph.D. Yale; B.T. Rouse; Ph.D. Guelph University.

Associate Professors: D.L. Hacker, Ph.D. Michigan State; Pam Small, Ph.D. University of Paris.

Assistant Professors: E. Urbach, Ph.D. M.I.T.; S. Wilhelm, Ph.D. University of Western Ontario.

Students wishing to emphasize study in this area elect to major in Biology with a concentration in Microbiology. See the description of the Biology Major under “Division of Biology” for requirements.

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 Arts and Sciences curricula section of this catalog, and who have been approved by the Medical Technology Admissions Committee.

MODERN FOREIGN LANGUAGES AND LITERATURES

Professors: C. R. Hodges (Head), Ph.D. Chicago; P.E. Barrette, Ph.D. California (Berkeley); P. Brady (Shumway Chair of Excellence), Ph.D. Universite de Paris (Sorbonne); E.J. Campion, Ph.D. Yale; C.W. Cobb (Emeritus), Ph.D. Tulane; J.C. Elliott (Emeritus), M.A. Illinois; J.E. Fallen (Emeritus), Ph.D. Pennsylvania; D.M. Fieni (Emeritus), Ph.D. Indiana; M.H. Handelsman, Ph.D. Florida; W.H. Hefflin, Ph.D. Florida State; T.B. Irving (Emeritus), Ph.D. Princeton; H. Kratz (Emeritus), Ph.D. Ohio State; K.D. Levy, Ph.D. Kentucky; F.D. Maurino (Emeritus), Ph.D. Columbia; C. J. Mellor, Ph.D. Chicago; J.C. Osborne (Emeritus), Ph.D. Northwestern; C. Pinsky (Emeritus), Ph.D. California (Berkeley); U.C. Ritzenhof (Emerita), Ph.D. Connecticut; Oscar Rivera-Rodas, Ph.D. California; J.B. Romeiser, Ph.D. Vanderbilt; A.M. Vazquez-Big (Emeritus), Ph.D. Minnesota; A.H. Wallace (Emeritus), Ph.D. North Carolina; Yulan Washburn, Ph.D. North Carolina.

Associate Professors: M. Beauvais, Ph.D. DeP; F. Brizio-Skov, Ph.D. Washington; B. Creel, Ph.D. California; S. DiMaria, Ph.D. Wisconsin; C.K. Duncan, Ph.D. Illinois; C. Holmlof, Ph.D. Wisconsin; J. LaCure, Ph.D. Indiana; N.A. Lauchner, Ph.D. Wisconsin; D. Lee, Ph.D. Stanford; C. Nakuma, Ph.D. Universite de Paris (Sorbonne); N. Penrukhina, Ph.D. Bryn Mawr; D.J. Young, Ph.D. Texas.

Assistant Professors: A. Ayo, Ph.D. Arizona; S. Blackwell, Ph.D. Indiana; N. Cruz-Camara, Ph.D. SUNY (Buffalo); C. Cox (Emerita), M. A. Tennessee; L. Essil Ph.D. Brown; P. Hoeyng, Ph.D. Wisconsin; E. Johnson, Ph.D. Tennessee; G. Kaplan, Ph.D. Pennsylvania; H. Maxim, Ph.D. Texas; M. McAlpin, Ph.D. Columbia; S. Ohnensorg, Ph.D. McGill; E. Silva Filho, Ph.D. North Carolina; J. Williams, Ph.D. Ohio State; P. Wilson (Emerita), M.A. Tufts; Chi-Hung Yim, Ph.D. Yale.

The French Major consists of 30 hours in courses numbered 333 and above. (French 300 does not count toward the major, but is recommended for students needing grammar review). All majors must have the following courses (or their equivalent with consent of the department): 333-334, 351-352, 421, 422, 440. Literature concentrations must also have 6 hours of literature at the 400 level, plus a 3-hour language-oriented or civilization course. Language concentration students must also have 6 hours of language-oriented or civilization course, plus a 3-hour literature course at the 400 level. Exceptional students may substitute a 400-level course for either 333 or 334, with consent of the department.

German Major Majors or minors in German should carefully prepare their programs in consultation with a departmental faculty advisor. German 201-202 or the equivalent is a prerequisite to the major. The major shall consist of at least 30 hours of German in courses numbered above 300, including German 363 and usually including German 301-302. Courses in English translation or German 331-332 do not count toward the major. In order to graduate, majors will be required to take a proficiency test in German. It is recommended that German majors also take History 241-242 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. B.A. Honors in German The Honors B.A. consists of at least 36 hours of German in courses numbered above 300, including completion of German 477 or 478 with a grade of A or B+. To be admitted to the Honors Program, students must present a cumulative grade point average in German major courses of at least 3.5 and have an overall GPA of not less than 3.2. Students should apply for admission to the B.A. Honors Program at the end of their junior year. Application forms are available in the department office. Since courses taken abroad are not calculated in the overall average, the department reserves the right to make a judgment on the appropriateness of a study-abroad curriculum for acceptance as honors work and to require other 400-level courses as a condition for the degree.

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

The Russian Major has two options, a traditional major with a literary emphasis and an area studies major. Russian 201-202 is a prerequisite for both. Majors should prepare their programs in consultation with the departmental faculty advisor. Both options consist of 30 hours of courses, and both require Russian 311-312 and 401-402. The major with literary emphasis also requires Russian 301-302, 451-452, and 6 hours from Russian 221, 222, 320, 371, 372, or other courses numbered above 300. The additional requirements for the area studies major are Russian 371-372; 3 or more credits chosen from Russian and East European Studies 410 or Russian 221, 222, and Russian courses numbered 300 and above; and 6 or more credits chosen from Geography 375, History 340-341, Philosophy 393, and Political Science 459.

The Spanish Major consists of 30 hours in courses numbered 323 and above in one of three concentrations. All majors must have the following courses: 323, 330 and 331. Literature concentration: (1) 323, 333, 334; (2) six additional 400-level courses, at least two of which must be in literature. Hispanic Studies concentration: (1) one course from 323, 333 or 334, (2) six additional courses in language, literature or culture, at least 4 of which must be from the 400 level. Students whose level of proficiency in Spanish is superior to that defined by the ACTFL Proficiency Guidelines will substitute a 400-level course for 323 with consent of the department.

Major in French, German, Italian, Russian, or Spanish with a Concentration in Language and World Business or a Major Concentration in Language and World Business with Chinese, Japanese, or Portuguese Students who wish to prepare for careers in international business may complete (a) a special major in Chinese, French, German, Italian, Japanese, Portuguese, Russian, or Spanish; (b) a professional emphasis in International Business, International Retail Merchandising, or International Agricultural Economics, and (c) some form of practical experience related to the concentration. Admission is by permission of the program director.
A. LANGUAGE REQUIREMENTS

1. The Chinese Concentration consists of 30 hours. The following are required: Chinese 231, 232, 331, 332, three hours of 490 or 491, and 9 hours of courses from the following: Art 386, Asian Studies 102, History 362, 365, 364, 476, Political Science 454, Religious Studies/Philosophy 376, 379 (or other course approved by the Asian Studies Advisor).

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

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

4. The Italian Major consists of 30 hours. The following are required: Italian 314, 341, 342, 401, 490 or 491, and 12 hours of any 400-level literature courses.

5. The Japanese Concentration consists of 30 hours. The following are required: Japanese 251, 252, 351, 352, three hours of 490 or 491, and 9 hours of courses from the following: Art 386, Asian Studies 102 or 471 (if related to Japan), History 365, Japanese 313 or 314, Religious Studies 383.

6. The Portuguese Concentration consists of 33 hours. The following are required: Portuguese 301, 302, 309, 315, 316, 409, 431, six hours of 490 or 491 as approved by the director of the program, History 360 or 361, three hours of an approved Latin American Studies course.

7. The Russian Major consists of 30 hours. The following are required: Russian 301-302, 311-312, 401-402, 451-452, 490 or 491, and 3 hours from the following: 221, 222, 320, 371, 372, or any 400-level courses.

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

B. PROFESSIONAL EMPHASIS

1. International Business students will take 24 hours. The following are required: Accounting 201, 202, Marketing 301, Management 301, and Finance 301. Students then choose three courses from the following general business courses: Logistics and Transportation 301, 302, Business Law 301, Management 471, Marketing 440, Logistics and Transportation 441, Economics 321, or Business Administration 311.

2. International Retail Merchandising Students will take 25 hours. The following are required: Accounting 201, 202, Marketing 301, Retail and Consumer Sciences 210, 310, 321, 421, and three additional credit hours from the following: Retail and Consumer Sciences 350, 410, 411, 412, 415, 450, or 493.

3. International Cultural Economics students will complete 24 hours. The following are required: Accounting 201, Agricultural Economics 210, 320, 342, 350, 420, 430, and three credit hours from the following: Marketing 301, Management 301, Finance 301, Logistics and Transportation 301 or 302.

C. PRACTICAL EXPERIENCE

Through Asian Languages 490, French 490, German 490, Italian 490, Portuguese 490, Russian 490, or Spanish 490, each Language and World Business student must undertake study abroad, an internship, or a relevant research project for a minimum of 9 hours (included in major requirements).

Additionally, Language and World Business students must consult an advisor in the Department in selecting relevant courses under the Basic Skills and Distribution requirements for the Concentration.

Students interested in the Language and World Business Program should contact the Director for advising as early as possible in their college careers. The academic record presented will be assessed by the Director of Language and World Business. Minimum requirements for progression to the concentration are a 2.75 cumulative average in the courses specifically required by the College of Arts and Sciences in Basic Skills and Distribution and in the Language and World Business plan of studies, and a 3.0 average in language courses. Course credits for the program include Asian Languages, French, German, Italian, Portuguese, Russian, or Spanish 199, Economics 201 (under Social Sciences electives) and Math 125 and Statistics 201 (under Part II of the Natural Science electives).

Progression is based on availability of space in the program. Program standards are adjusted periodically, and current requirements are available from the Director of the Language and World Business Program.

For further information, inquire in 701 McClung Tower.

Placement Examination

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

Proficiency Examinations

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

Study Abroad

Five summer study abroad opportunities are available to students through the Department. The department sponsors programs in Brazil, France, Italy, Mexico, and Spain. Students can earn up to six credit hours by participating in these programs. In most cases, the courses will fulfill part or all of the foreign language requirement (completion of the elementary or intermediate level). Upper division classes in literature, culture, and language are also available for major and minor credit. Participation in these programs will satisfy the foreign study requirements for the Language and World Business degree. A faculty member accompanies student groups. In addition to formal classes held at a major university in the city, group excursions to cultural and historical sites are an integral part of the programs. For more information concerning prerequisites, lodging arrangements, costs, and dates of an individual program, contact the Department of Modern Foreign Languages and Literatures, 701 McClung Tower.

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

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

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

The German Minor consists of German 201-202 or its equivalent 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).

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

The Japanese Minor consists of Asian Languages 251-252 or its equivalent is a prerequisite to the minor. The minor shall consist of at least 17 hours of Japanese courses, including Asian Languages 351-352; 451; and 6 hours from Asian Languages 313-314 or other Japanese courses above 300.

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

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

The Spanish Minor consists of 18 hours in courses numbered 323 or above, distributed as follows: 323, 330 and 331; one course from 332, 333 or 334; two additional courses. Students pursuing a minor are strongly advised to consult with a departmental advisor.
MUSIC


Assistant Professors: A.L. Batey, D.M.A. South Carolina; W. Baldwin, D.M.A. Maryland; C. Freeman, M.P.A. Oklahoma City; W.W. Hawthorne, Ph.D. Cincinnati; E. Keathley, Ph.D. SUNY (Stonybrook); E. Powell, M.M. Cincinnati; J. Richter, M.M. Andrews University; D.M. Ryder, D.M.A. Iowa; C. Walters, D.M. Florida State; A.N. Wentzel, M.M. Southern California.

BACHELOR OF MUSIC DEGREE

The School of Music offers curricula leading to the Bachelor of Music degree with concentrations in music theory/composition, music education, and applied music (voice; piano; organ; saxophone; clarinet; horn; flute; oboe; bassoon; woodwind; brass, and percussion instruments; strings; voice, piano, organ; pedagogy and literature; music education). Study at the Bachelor of Music degree level is required.

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

PROGRESSION REQUIREMENTS

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

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

MINIMUM PERFORMANCE STANDARDS

Potential performance and music education majors not meeting minimum performance standards, but showing potential, will be allowed to register for applied music (Music 140—Fundamentals of Performance) in order to attain the desired level. Such students are normally expected to demonstrate sufficient progress by the end of the first academic year to perform on a level commensurate with a freshman music education major and reservation must be made at the School. The addition of the extra semesters of study usually results in lengthening the period needed to satisfy requirements for advanced standing (300 level).

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

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

ENSEMBLES

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

APPLIED MUSIC

Applied study is classified as Principle or Secondary.

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

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

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

Applied Music Fees: $60 per semester for half-hour lesson (1 credit hour) $120 per semester for hour lesson (2-4 credit hours).

- Computer registration and applied music fee payment must be verified in the School of Music office no later than the end of the second day of classes of the fall, and spring semesters and the first day of the summer terms in order to be accepted for study.

Applied music fees are not refundable after lessons have been scheduled.

KEYBOARD SKILLS PROFICIENCY EXAMINATION

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

RECITAL ATTENDANCE POLICY

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

BACHELOR OF MUSIC IN MUSIC EDUCATION

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

BACHELOR OF ARTS DEGREE

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

THE BACHELOR OF ARTS DEGREE—MUSIC MAJOR

Music Course Requirements

The Bachelor of Arts Degree—Music Major Music Course Requirements Prerequisites: Music Theory 110, 120 (6); Music Theory 130, 140 (2); Music Performance 100 Level (2). Courses toward the major: Music Theory 210, 220, 220 (6); Music Theory 230, 240, 240 (2); Music History 200 (3); Music History 210, 220, 220 (6); Music Performance 200 level or above (four semester minimum) (8); Music General (260, 270, 280, 290, 340, 350, 310, 310, 310, 310 (14 semester minimum) (0); Music Ensemble (4); Music Theory 210 (3) 3 hours selected from: Music History 350, 350, 350. Music electives (0-3 hours) selected from: Music History 460 (3); Music General 301 (0); Music Theory 493 (3) or Music History 493 (3); Music General 411 (0). Total of 45-48 hours.

1. Students must complete a minimum of four semesters of Music Performance, major instrument/voice at the 200 level or above.

2. Music General 200 must be completed a minimum of four semesters.

Degree requires a minimum of 124 hours. Remainder of hours to be structured per re- quirements as outlined in the catalog section.
**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 music 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 music electives. Prerequisites are Music General 100 or equivalent and two semesters of applied music study at the 103-190 levels.

**B.M. Curriculum in Music Education—Wind/Percussion Emphasis (5-year option)**

<table>
<thead>
<tr>
<th>Hours Credit</th>
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<th>Senior</th>
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Total: 132 hours

**B.M. Curriculum in Music Education—Wind/Percussion Emphasis (4-year alternative)**

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Total: 124 hours plus 24 graduate hours

**B.M. Curriculum in Music Education—String Emphasis (4-year alternative)**

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Total: 124 hours plus 24 graduate hours
### Senior
- **Music Performance (major instrument)** ........................................... 2
- **Music General 200** ........................................................................ 0
- **Music General 301** ........................................................................ 0
- **Music Ensemble** ............................................................................ 1
- **Music Education 400** .................................................................... 12
- **Music Education 401** .................................................................... 0
- **Music Education 411** .................................................................... 2
- **Education 400** .............................................................................. 0
- **Education 401** .............................................................................. 3
- **Education 486** .............................................................................. 3
- **Non-US History** ............................................................................ 3

**Total: 132 hours**

### B.M. Curriculum in Music Education—Vocal/General Concentration/Keyboard Emphasis (5-year option)

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<th>B.M. Curriculum in Music Education—Vocal/General Concentration/Vocal Emphasis (5-year option)</th>
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**Total: 125 hours plus 24 graduate hours**

### Internship Year
- **Music Education 575** ........................................... 12
- **Music Education 574** ........................................... 2
- **Music Education 591** ........................................... 3
- **Electives in Music Education or Music** ........................................... 6

**Total: 125 hours plus 24 graduate hours**

### B.M. Curriculum in Music Education—Vocal/General Concentration/Vocal Emphasis (4-year alternative)

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**Total: 126 hours plus 24 graduate hours**

### B.M. Curriculum in Music Education—Vocal/General Concentration/Vocal Emphasis (5-year option)

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**Total: 134 hours**
### B.M. Curriculum in Piano Pedagogy and Literature

**Freshman**
- English 101, 102 .................................................. 6
- Music Theory 100, 110 ........................................... 6
- Music Theory 130, 140 .......................................... 2
- Music History 210, 220 .......................................... 6
- Music Performance 210, 220 .................................. 4,4
- Music Ensemble .................................................. 1
- Social Science ..................................................... 6
- Electives ................................................................ 3

**Sophomore**
- Music History 380 ................................................ 3
- Music Theory 310 .................................................. 3
- Music Keyboard 310 ............................................. 1
- Music Performance 330 ........................................ 4,4
- Music Ensemble .................................................. 1
- Social Science ..................................................... 6
- Electives ................................................................ 3

**Junior**
- Music Performance 290 ........................................ 3,3
- Music Ensemble .................................................. 1
- Music Keyboard 230 ............................................. 1
- Music Keyboard 400 ............................................. 3
- Music History 380 ................................................ 3
- Music Education 310 .......................................... 3
- Electives ................................................................ 3

**Senior**
- Music Keyboard 320 ............................................. 1
- Music Keyboard 430 ............................................. 3
- Music Performance 350 ........................................ 4,4
- Music General 200 ............................................. 3
- Music History 210, 220 .......................................... 6
- Music Ensemble .................................................. 1
- Music History 380 ................................................ 3
- Music Education 310 .......................................... 3
- Electives ................................................................ 3

### B.M. Curriculum in Sacred Music

**Freshman**
- English 101, 102 .................................................. 6
- Music History 101, 102 .......................................... 6
- Music Performance 130, 140 .................................. 2
- Music Performance 155 or 190 .............................. 0
- Music Performance 330 ........................................ 4,4
- Music Performance 355 or 390 .............................. 3,3
- Music General 200 ............................................. 0
- Music Ensemble .................................................. 1
- Music History 380 ................................................ 3
- Music Education 310 .......................................... 3
- Electives ................................................................ 3

**Sophomore**
- Music Performance (400 level) .............................. 4,4
- Music Construction 200 ........................................ 0
- Music General 401 ............................................. 0
- Music Performance 399 ........................................ 3
- Music Keyboard 230 ............................................. 1
- Music Keyboard 400 ............................................. 3
- Music History 380 ................................................ 3
- Music General 200 ............................................. 3
- Music Ensemble .................................................. 1
- Music History 380 ................................................ 3
- Music Education 310 .......................................... 3
- Electives ................................................................ 3

**Junior**
- Music Performance 400 ........................................ 4,4
- Music History 380 ................................................ 3
- Music General 200 ............................................. 0
- Music Performance 399 ........................................ 3
- Music Keyboard 230 ............................................. 1
- Music Keyboard 400 ............................................. 3
- Music History 380 ................................................ 3
- Music General 200 ............................................. 3
- Music Ensemble .................................................. 1
- Music History 380 ................................................ 3
- Music Education 310 .......................................... 3
- Electives ................................................................ 3

**Senior**
- Music Performance 400 ........................................ 4,4
- Music Construction 200 ........................................ 0
- Music General 401 ............................................. 0
- Music Performance 399 ........................................ 3
- Music Keyboard 230 ............................................. 1
- Music Keyboard 400 ............................................. 3
- Music History 380 ................................................ 3
- Music General 200 ............................................. 3
- Music Ensemble .................................................. 1
- Music History 380 ................................................ 3
- Music Education 310 .......................................... 3
- Electives ................................................................ 3

### B.M. Curriculum in Sacred Music

**Freshman**
- English 101, 102 .................................................. 6
- Music History 101, 102 .......................................... 6
- Music History 130, 140 .......................................... 2
- Music Performance 130, 140 .................................. 2
- Music Performance 155 or 190 .............................. 0
- Music Performance 330 ........................................ 4,4
- Music Performance 355 or 390 .............................. 3,3
- Music General 200 ............................................. 0
- Music Ensemble .................................................. 1
- Music History 380 ................................................ 3
- Music Education 310 .......................................... 3
- Electives ................................................................ 3

**Sophomore**
- Music Performance (400 level) .............................. 4,4
- Music Construction 200 ........................................ 0
- Music General 401 ............................................. 0
- Music Performance 399 ........................................ 3
- Music Keyboard 230 ............................................. 1
- Music Keyboard 400 ............................................. 3
- Music History 380 ................................................ 3
- Music General 200 ............................................. 3
- Music Ensemble .................................................. 1
- Music History 380 ................................................ 3
- Music Education 310 .......................................... 3
- Electives ................................................................ 3

**Junior**
- Music Performance 400 ........................................ 4,4
- Music Construction 200 ........................................ 0
- Music General 401 ............................................. 0
- Music Performance 399 ........................................ 3
- Music Keyboard 230 ............................................. 1
- Music Keyboard 400 ............................................. 3
- Music History 380 ................................................ 3
- Music General 200 ............................................. 3
- Music Ensemble .................................................. 1
- Music History 380 ................................................ 3
- Music Education 310 .......................................... 3
- Electives ................................................................ 3

**Senior**
- Music Performance 400 ........................................ 4,4
- Music Construction 200 ........................................ 0
- Music General 401 ............................................. 0
- Music Performance 399 ........................................ 3
- Music Keyboard 230 ............................................. 1
- Music Keyboard 400 ............................................. 3
- Music History 380 ................................................ 3
- Music General 200 ............................................. 3
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- Music Education 310 .......................................... 3
- Electives ................................................................ 3
## B.M. Curriculum in Studio Music and Jazz

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### B.M. Curriculum in Voice

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<td>3</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>Total:</strong></td>
<td>127 hours</td>
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### Senior

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>Music Theory 410</td>
<td>Music Performance</td>
<td>3</td>
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<tr>
<td>Music Theory 420</td>
<td>Music Performance</td>
<td>2</td>
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<tr>
<td>Music Theory 430, 440</td>
<td>Music Performance</td>
<td>6</td>
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<tr>
<td>Music Performance</td>
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<tr>
<td>Area Study</td>
<td>Area Study</td>
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</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>Total:</strong></td>
<td>132 hours</td>
</tr>
</tbody>
</table>

### Major Prerequisite

1. Must take 1 year of two languages from French, German or Italian.

### ORGANIZATIONAL PSYCHOLOGY PROGRAM

See Graduate School.

### PHILOSOPHY

**Professors:**
- J.R. Hardwig (Head), Ph.D. Texas; R.E. Aquila, Ph.D. Northwestern; L.B. Cebik (Emeritus), Ph.D. Nebraska; S.M. Cohen, Ph.D.
- Northwestern; J.W. Davis (Emeritus), Ph.D. Emory; R.B. Edwards (Emeritus), Ph.D. Emory; G.C. Graber, Ph.D. Michigan; J.E. Noth, Ph.D. Ohio State; B.C. Postow, Ph.D. Yale; D. Van de Vate (Emeritus), Ph.D. Yale.

**Associate Professors:**
- K.A. Boothst, Ph.D. Ohio State; J.O. Bennett, Ph.D. Tulane; H.P. Hamlin, Ph.D. Georgia; M.L. Osborne (Emeritus), Ph.D. Tennessee.

**Assistant Professors:**
- J.M. Kaplan, Ph.D., Stanford; C.W. McLeod, Ph.D. Dalhouse; D.A. Reidy, Ph.D. Kansas.

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

### Freshman

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<tr>
<td>English 101, 102</td>
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<td>Music Theory 110, 120</td>
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<td>Music Theory 130, 140</td>
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<td>Music History 200</td>
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<td>Music Jazz 210, 220</td>
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<td>Music History 210, 220</td>
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<td>Music History 380</td>
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<td>Music History 395</td>
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<tr>
<td>Social Science</td>
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</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>Total:</strong></td>
<td>127 hours</td>
</tr>
</tbody>
</table>
PHYSICS AND ASTRONOMY

Professors: S.P. Sorenson (Head), Ph.D. Copenhagen (Denmark); F.E. Barnes (Collaborating Scientist), Ph.D. California; C.R. Bingham, Ph.D. Tennessee; W.E. Blais, Ph.D. Michigan State; M.J. Breining, Ph.D. Oregon; W.W. Bugg, Ph.D. Tennessee; J. Burgdoerfer (Distinguished Professor), Ph.D. Freie Universitat Berlin; T.A. Callcott, Ph.D. Purdue; R.W. Childers, Ph.D. Vanderbilt; H.W. Crater (UTSI), Ph.D. Yale; K.E. Duckett, Ph.D. Tennessee; A.G. Eguiluz, Ph.D. Brown; S.B. Elston, Ph.D. University of Massachusetts; S. Georgiou, Ph.D. Manchester (England); M.W. Guidry, Ph.D. Tennessee; T. Handler, Ph.D. Rutgers; E.L. Hart, Ph.D. Cornell; I. Kamyshkov, Ph.D. ITEP (Russia); J.W.L. Lewis (Distinguished Professor, UTSI), Ph.D. Mississippi; Ph.D. Michigan; J. Macek (Distinguished Scientist), Ph.D. Rensselaer Polytechnic Institute; G. Mahan (Distinguished Scientist), Ph.D. University of California (Berkeley); W. Nazarewicz, Ph.D. Warsaw; L.R. Painter, Ph.D. Tennessee; D.J. Pegg, Ph.D. New Hampshire; E.W. Plummer (Distinguished Scientist), Ph.D. Cornell; J.J. Quinn (Lincoln Chair), Ph.D. Maryland; L.L. Riedinger, Ph.D. Vanderbilt; C.C. Shih (Liason), Cornell; M.R. Strayer, Ph.D. Massachusetts Institute of Technology; J.R. Thompson, Ph.D. Duke; B.F.L. Ward, Ph.D. Princeton.

Associate Professors: G. Carrión, Ph.D. Tennessee; L. Davis (UTSI), Ph.D. Auckand; T.L. Ferrell, Ph.D. Clemson; J.C. Levin, Ph.D. Oregon; C. Parigger (UTSI), Ph.D. New Zealand; E.F. Read (Collaborating Scientist), Ph.D. Cornell; S.Y. Shieh, Ph.D. Maryland; G. Siopsis, Ph.D. California Institute of Technology; H.H. Weitinger, Ph.D. Groningen.

Assistant Professors: S.J. Daunt, Ph.D. Queens (Kingston, Ontario, Canada); D.J. Dean (Collaborating Scientist), Ph.D. Vanderbilt; A.J. Sanders, Ph.D. Tufts.

Research Professors: H.O. Cohn, Ph.D. Indiana; L.A. Pinnaduwage, Ph.D. Pittsburgh; N. Thonnard, Ph.D. Kentucky; J. Zhang, Ph.D. Lanzhou.

Research Associate Professors: P.E. Datkosh, Ph.D. Tennessee; D.L. McCorkle, Ph.D. Tennessee.

Research Assistant Professors: Y.Y. Efremenko, Ph.D. ITEP (Russia); S.A. Yost, Ph.D. Princeton.

Director of Undergraduate Laboratories: J.E. Parks, Ph.D. Kentucky.

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

PHYSICS

B. S. Major The undergraduate physics major provides a thorough introduction to all of the core areas of physics. At the same time it allows students with special interests to pursue different concentrations. The Department offers three concentrations: Academic, Applied, and General. The Academic Concentration is intended for students interested in professional employment or graduate work in physics or closely related fields such as astronomy, engineering, laser technology, or computational science. The Applied Concentration introduces students to the physics and technology of today and tomorrow. Such a broad physics background is increasingly useful in technological and industrial fields outside of physics. The General Concentration is intended for students who wish to apply a substantial knowledge of physics to fields such as secondary education, medicine, law, journalism, business, or any field of their choice.

Prerequisites of the Major are Physics 137-138 or Physics 135-136, Mathematics 141-142 and Computer Science 102.


The Major with a General Concentration consists of: Mathematics 241; Physics 240, 311, 321 and 361, one lab course, chosen from 421, 453, and 461, and three core courses, chosen from 312, 411, 412, 431, 432, 441, 442. In addition, 12 coordinated hours in an area of the student’s special interest are to be chosen by the student in consultation with a departmental advisor. Total Major hours: 40-41 including 28-29 in physics and 12 in chosen concentration.

A Physics Minor consists of Physics 137-138, 240, or 135-136, 240 and twelve hours from Physics and Astronomy courses numbered 300 and above.

An Astronomy Minor consists of one year of introductory astronomy, Astronomy 411, 490 (3), Physics 311-12, and 421.

POLITICAL SCIENCE


Political Theory 300, 374, 475 and 476.

Minor Prerequisites are Political Science 101 or 107 and 102. The minor consists of 15 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 is normally a two year program. Political Science 101 or 107, and 102 are prerequisites to the major. The major consists of 27 hours of courses numbered 300 or above, including 387, 388, 487, and 488. These 27 hours must include at least one course in each of the four areas of the discipline: Political Science 387 and 388 may be used to satisfy this requirement in the appropriate area.

To graduate with Honors in Political Science, the student must have a minimum GPA of 3.3 in Political Science, and a minimum cumulative GPA of 3.0.

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 Public Administration. Political Science 101 or 107, 102 and Economics 201 are prerequisites to the major in Political Science with a concentration in Public Administration. The concentration consists of course work in Political Science, Economics, and Accounting. Students must complete Political Science 340, 401, two of the following: Political Science 440, 441 or 442; and two of the following: Economics 471, 472 or Accounting 201. Students must also include one course in each of the three remaining fields of Political Science: Comparative Government and Politics, International Relations, and Political Theory.

PSYCHOLOGY

Professors: James E. Lawler (Head), Ph.D. North Carolina; G.M. Burgardt (Alumni Distinguished Professor), Ph.D. Colorado; W.H. Calhoun, Ph.D. California (Berkeley); H.J. Fine (Emeritus), Ph.D. Syracuse; S.J. Handel, Ph.D. Johns Hopkins; L. Handler, Ph.D. Michigan State; Warren H. Jones, Ph.D. Ohio State University; K.A. Lawer, Ph.D. North Carolina; J.W. Lounsbery, Ph.D. Michigan State; J.F. Lubar, Ph.D. Chicago; J.C. Malone, Ph.D. Duke; K.R. Newton (Emeritus), Ph.D. Tennessee; H.R. Polio (Alumni Distinguished Service Professor), Ph.D. Michigan; F. Samejima, Ph.D. Kejo (Japan); R.A. Saudargas, Ph.D. Florida State; R.S. Shradar (Emeritus), Ph.D. Pennsylvania; E.D. Sundstrom, Ph.D. Utah; C.B. Travis, Ph.D. California (Davis); R.G. Wahler, Ph.D. Washington; J.A. Wibeler (Emeritus), Ph.D. Syracuse.

Associate Professors: D. Baldwin, Ph.D. Kent State; M.G. Johnson, Ph.D. Johns Hopkins; A. McIntyre, Ph.D. Yale; W.G. Morgan, Jr., Ph.D. Tennessee; M.R. Nash, Ph.D. Ohio; Deborah P. Welsh, Ph.D. University of Massachusetts.

Assistant Professor: Kristina Gordon, Ph.D. University of North Carolina.
Major Prerequisites: are one year of a biological science (e.g. Biology 101-102), Psychology 110 with a grade of C or better, and a GPA of at least 2.00. The major requires 24 Psychology hours at the 200 level or higher: (1) Either Psychology 301 or Statistics 201 and 21 additional hours in Psychology or Math 115 and 24 additional hours in Psychology; (2) Three courses from Psychology 210, 220, 300, 310, 320, 330, 360, 370; (3) Two additional Psychology courses at the 300 level or higher; (4) Two additional Psychology courses at the 400 level.

NOTE: No more than six hours of 399, 489, 491, 492, 493 cannot be used as additional hours at the 300 level and above.

300, 301, 305, 313, 320, 342.

Additional Note: Any hour required for the major that is also required for the minor is counted only once toward the major.

Minor Consists of 110 or equivalent; and 15 additional hours at the 300 level and above. NOTE: 399, 489, 491, 492, 493 cannot be used in this minor.

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

RELIIGIOUS STUDIES

Professors: C.H. Reynolds (Head), Ph.D. Harvard; F.S. Lusby (Emeritus), M.Div. Colgate (Rochester); D.L. Dungan, Th.D. Harvard; R.J. Hackett, Ph.D. Aberdeen; W.L. Humphreys, Ph.D. Union; D.E. Linge, Ph.D. Vanderbilt; R.V. Norman, Jr., Ph.D. Yale; Gilya Schmidt, Ph.D. British Columbia; N.E. Shover, Ph.D. Illinois (Urbana); S.E. Wallace, Ph.D. Minnesota.

Associate Professors: S. Kurth (Head), Ph.D. Illinois (Chicago); S. Cable, Ph.D. Pennsylvania State; A. Jalata, Ph.D. SUNY-Binghamton; R.E. Jones, Ph.D. Washington State.

Assistant Professors: J. Shefner, Ph.D. California (Davis).

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

Major Before applying to the Sociology Department for admission to the major a student must complete either Sociology 110 or 120 with a grade of C+ or above. Upon granting admission to the major, the department will assign the student an academic advisor who will help the student plan a program of study for the major. The major consists of 24 upper-division hours in sociology and must include two courses selected from Sociology 321 and 331. Students should complete 321 and 331 by the end of their junior year.

Minor The minor consists of 15 upper-division hours in Sociology and must include Sociology 321 and 331. Prerequisite to the minor is one lower-division hour in Sociology (either 110 or 120).

2. Religions and Cultures of South Asia: 374, 376.
3. Religions and Cultures of East Asia: 379, 383, 384.
4. Religions and Cultures of West Asia and Europe: 311, 321, 322, 332, 381, 385.
5. Religions and Cultures of Africa: 373.
7. Two 400-level courses including 499.

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 a graduate or professional school (seminary, 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 Arts and Sciences. Students whose vocational goals would best be served by such a major must discuss this option with a faculty member in the department, who will submit any specific proposal to the faculty in religious studies for approval.

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.

RUSSIAN

See Modern Foreign Languages and Literatures.

SOCIOLGY

Professors: M.L. Benson, Ph.D. Illinois; J.A. Black, Ph.D. Iowa; D.W. Hastings, Ph.D. Massachusetts; T.C. Hood, Ph.D. Duke; R.G. Perrin, Ph.D. British Columbia; N.E. Shover, Ph.D. Illinois (Urbana); S.E. Wallace, Ph.D. Minnesota.

Associate Professor: S. Kurth (Head), Ph.D. Illinois (Chicago); S. Cable, Ph.D. Pennsylvania State; A. Jalata, Ph.D. SUNY-Binghamton; R.E. Jones, Ph.D. Washington State.

Assistant Professors: J. Shefner, Ph.D. California (Davis).

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

Major Before applying to the Sociology Department for admission to the major a student must complete either Sociology 110 or 120 with a grade of C+ or above. Upon granting admission to the major, the department will assign the student an academic advisor who will help the student plan a program of study for the major. The major consists of 24 upper-division hours in sociology and must include two courses selected from Sociology 321 and 331. Students should complete 321 and 331 by the end of their junior year.

Minor The minor consists of 15 upper-division hours in Sociology and must include Sociology 321 and 331. Prerequisite to the minor is three lower-division hours in Sociology (either 110 or 120).

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 courses as follows: 350, 351, 451, either 455, 459, or 492, and two courses selected in consultation with advisor.

Concentration in Environment and Society All prerequisites required for the major are required for this concentration. The Concentration in Environment and Society consists of Sociology 321 and 331 and eighteen hours of upper-division sociology courses as follows: 360, 464, either 344 or 345, either 442 or 446, and two courses selected in consultation with advisor.

Minor with Concentration in Environment and Society The minor consists of Sociology 321, 331 and two courses from 344, 345, 442, 446, and 464. Prerequisites to the minor either Sociology 110 or 120.

COLLEGE SCHOLARS HONORS

Director: David Tandy, Professor of Classics.

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

SPANISH

See Modern Foreign Languages and Literatures.

STATISTICS

See faculty list in the College of Business Administration.

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

Major The major requires 33 semester hours including (a) Statistics 201 or 251; (b) Statistics 320, 330, 365, 471; (c) two courses selected from Statistics 472, 473, 475, Math 423, 424, 425; (d) Math141-142 and 241-251, or upper division Math*; (e) two technical electives to be selected from upper division courses in Mathematics, Computer Science, Engineering, Physics, or Chemistry, with the approval of the student’s advisor in the Department of Statistics.

*Students who have completed Mathematics123-125 should see an advisor to select courses to complete this requirement.
Minor The minor consists of Statistics 201 or Statistics 251; an additional 12 hours from Statistics 320, 330, 365, 471, 472, 473, 475; and Math 423, 424, 425.

THEATRE

Professors:

Associate Professors:
E. Craven, M.A. Tennessee; L.J. DeCuir, M.F.A. Tulane; B.K.A. Gould, M.F.A. Catholic.

Assistant Professor:

Major Theatre 100 is a prerequisite to a major which consists of 200, 220, 300, 411, 412, 430, 1 from 340, 345, 350, 355, 360, and 12 additional hours of Theatre courses numbered 200 and above, 3 of which may be in cognate areas approved by the Department.

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

General requirements for the master's degree are given in the Graduate Catalog.

URBAN AND REGIONAL PLANNING

Professors:
C.W. Minkel (Head) Ph.D. Cornell; D.A. Johnson (Emeritus), Ph.D. Cornell; K.B. Kenney (Emeritus), Ph.D. North Carolina; J.M. Prochaska (Emeritus), M.U.P. Michigan State; W.L. Shouse (Emeritus), M.C.P. Harvard; J.A. Spencer, M.C.P. Ohio State.

Associate Professors:
G.E. Bowen, M.A. George Washington; B.E. Tonn, Ph.D. Northwestern.

Assistant Professors:
T. Shupp, M.S.P. Tennessee; C. Zanetta, Ph.D. Ohio State.

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

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

URBAN STUDIES

See Interdisciplinary Programs.

WOMEN'S STUDIES

See Interdisciplinary Programs.
Jan R. Williams, Interim Dean
David W. Schumann, Associate Dean for Research and Technology
Sarah F. Gardial, Assistant Dean, MBA
Patricia D. Postma, Assistant Dean, Center for Executive Education
Mary C. Holcomb, Interim Dean for Undergraduate Business Program
Margie H. Russell, Interim Director, Undergraduate Business Program

**College of Business Administration**

**B.USINESS—EXCELLENCE FOR TODAY AND TOMORROW**

The UT College of Business Administration is widely recognized for its leadership role in implementing some of the most innovative and exciting curriculum changes occurring during the last forty years of management education. Recently, the College has been recognized for its rising stock among the nation’s business schools, as Business Week’s Guide to Business Schools named UT as a “Best Buy” among all business schools, and cited the College for carving out a niche in Total Quality Management. As of Fall, 1996, the College’s undergraduate program was ranked 32nd nationally in a US News and World Report survey.

The tradition of innovation and change in business education has continued to be a hallmark of the College. In May 2000, the faculty unanimously agreed to adopt a new curriculum structure for the undergraduate program. The mission of the College of Business Administration’s undergraduate program is to produce leaders in business and society that will successfully function in a global, technology-driven environment. To this end, the new curriculum, which will be implemented in Fall Semester 2002, will focus on integrated business management, functional specialty education, and organizational processes that span functional specialties. A new component of the business core is the study of four major contemporary management perspectives. Supply chain management, demand management, lean operations management, and information management, and an integrative learning experience comprise the contemporary business management block of the business core. It is anticipated that topics in the block will change over time as business management perspective changes. The new undergraduate business program specifies up to 15 hours of collateral learning, which offers students the opportunity to pursue minors or dual majors.

An overall objective of the undergraduate business program is to move into the ranks of the top 25 programs in the country. To accomplish this objective, the College of Business Administration is committed to attracting and recruiting high ability students, creating a program innovation, and increasing the student and faculty satisfaction with the undergraduate program.

As of Spring, 1998, the US News and World Report survey ranked the College’s MBA program 43rd overall among the nation’s business schools. The MBA program is consistently praised for its “bold innovations” and its “high value-to-cost ratio.” Business Week’s Guide to the Best Executive Programs has rated the College’s Management Development Center as the best in the country in Total Quality Management and 13th overall for its executive programs. At the undergraduate, graduate, and executive education levels, the College of Business Administration continues to pace the nation in restructuring curriculum, in pedagogy, and in providing a healthier balance between academic rigor and managerial relevance.

Students in the College of Business Administration benefit from the 102 outstanding faculty who are recognized for excellence in teaching, research, and public service. The College was one of the first in the South to be accredited by the American Association of Collegiate Schools of Business, and the only one in Tennessee so designated for a period of nearly 30 years. The UT accounting program, ranked in the top 20 in the nation at the undergraduate level and 10th at the graduate level, was one of the first three in the nation to be accredited at all possible degree levels. The College’s logistics and transportation programs was ranked the number one program in the nation in Fall 1996.

The College has also been a national leader in bringing the concepts of industrial statistics and total quality management methods into the classroom. Many major American firms, including General Motors, Ford, Campbell’s Soup, Procter and Gamble, and the Harris Corporation, rely on the College and the Management Development Center for specialized training in these areas. Eighty-five percent of the top Fortune 500 firms have sent managers to the UT College of Business Administration for advanced management training.

While the College is an integral part of the national scene in education for businesses, it is deeply interested in Tennessee and its students. Through its Center for Business and Economic Research, the College provides the public analysis which support sound fiscal and management decisions by private businesses and public agencies in Tennessee.

Business students are the ultimate beneficiaries of the College’s aggressive involvement in business technology, research, and development of new management methods. In keeping with the College’s tradition of excellence, our professors challenge the student’s pioneering spirit and encourage their professional growth.

**THE CURRICULUM**

The College of Business Administration undergraduate curriculum consists of general education courses, a business “core,” and an area specialization. Building on a firm foundation in written and oral communications, mathematical and statistical methods, an appreciation of the humanities and the arts, and an understanding of the methodology and accomplishments of the social, behavioral, and natural sciences, the business core seeks to expose students to the realms of financial and managerial accounting, micro and macro economics, and the functional fields of business. In addition, an international dimension is included in the curriculum to prepare students for the world of international business.

In the first two years, students take the courses to meet the general education requirements of the curriculum. In their junior and senior years, students complete courses from the business core requirements and their major. A Bachelor of Science degree is offered in the following nine majors: accounting, economics, finance, general business, logistics and transportation, management, marketing, public administration, and statistics. These majors and related career opportunities are discussed later in this section of the catalog.
UNIVERSITY ADVISING CENTER
The College maintains an Undergraduate Business Center staffed with full-time academic advisors to assist students with educational program planning. The Undergraduate Advising Center is located in Glocker 52. Advisors serve students by answering questions concerning majors, curriculum, and elective options. The objective of the Advising Center is to provide students academic advising information. After being admitted to a major (junior and senior years), students will confer with a departmental advisor regarding career goals and opportunities.

PROGRESSION STANDARDS
Admission to the College of Business Administration does not guarantee acceptance in the chosen major. Students who enter the College of Business Administration as freshmen or sophomores must apply for a major in the semester after attempting 40 hours. The academic record presented will be assessed by the Undergraduate Business Program advising staff. The following minimum requirements must have been met in order to be considered for admission to the major:
1. The student must have followed a business curriculum.
2. The student must have earned a minimum 2.75 cumulative average (3.0 for accounting), over the courses specifically required in the lower-division of that curriculum, excluding electives.
3. The overall record will be evaluated for quality and seriousness of purpose. An excessive number of withdrawals, incompletes, repeated courses, or failures may result in denial of progression.
4. Progression standards are subject to change; current standards are available in the Undergraduate Advising Center, Glocker 52.

TRANSFER STUDENTS FROM OTHER UNIVERSITIES
Students transferring from other institutions must complete at least 9 credit hours in their major at UT.

APPEALS
Students who have been denied progression to a major in Business may appeal to the Undergraduate Admissions Appeals Committee. Information on procedures may be obtained in the Undergraduate Business Advising Center, Glocker 52.

COURSE LOAD
The normal course load for a semester is 15-18 hours. In unusual circumstances, permission to take a course load in excess of 19 hours may be granted by the Director of the Undergraduate Business Program in Business Administration.

SATISFACTORY/NO CREDIT
A maximum of 20 credit hours of satisfactory/no credit (S/NC) may be used toward degree requirements for a Bachelor of Science in Business Administration. Such credit hours may be used to meet only the requirements identified in the curriculum as “electives,” plus any business courses specifically designated as being available for S/NC grading.

BUSINESS MINOR FOR NON-BUSINESS STUDENTS
Students pursuing majors in colleges other than the College of Business Administration and who wish to obtain a minor in Business Administration must successfully complete the following requirements:
- Accounting 201-202, Economics 201, Statistics 201, Finance 301, Management 301, Marketing 301, and one additional 300 level or above business elective.
- All upper division (300 level or above) course work must be taken at UT. Students are responsible for meeting listed prerequisites of any upper division courses taken.
- Math 125 or 141 is a prerequisite to Statistics 201.
- Engineering students may substitute Chemical Engineering 301 for Statistics 201.

EXECUTIVE UNDERGRADUATE PROGRAM
Top students are invited into the Executive Undergraduate Program, a professional enrichment experience. Members meet with executives who present small group workshops and luncheons and share experiences with students who have similar goals and interests.

In Residence courses for seniors bring distinguished business and industrial leaders to campus for lectures with small groups of students. In these sessions, students have the opportunity to ask questions of some of the nation’s business leaders.

SCHOLARSHIPS
A limited number of scholarships are available for highly qualified students. Students are invited to apply for a College of Business Administration scholarship. Selection criteria for these scholarships include: academic merit, financial need, and leadership. Students must complete the Undergraduate Academic College Scholarship Application Form and submit it by the due date printed on the application.

In order to be considered for a scholarship, students must meet the following criteria:
1. Unweighted grade point average of 3.0;
2. ACT composite score of 23 or SAT combined score of 1050;
3. To apply, students must submit the following:
   1. A current high school transcript and a current college transcript, if the student is a transfer student;
   2. ACT or SAT scores;
   3. A completed Undergraduate Academic College Scholarship Application Form.

For a complete list of scholarships available to undergraduate students, please see the Honors and Awards section of the catalog.

FOREIGN STUDY
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. A second is through group programs conducted abroad by another academic institution to which UT students with approval may be obtained through Overseas Study Information Service located in
the University’s Division of International Education. A third opportunity is through individualized programs. The nature of this work as well as credit for it should be negotiated by students prior to departure with the appropriate department. Students should register for credit under the Foreign Study number BA 491. Credit will be awarded only after completion of all agreed upon requirements.

OFF-CAMPUS STUDY

Recognizing that learning is not restricted to formal class room 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 faculty member and the department granting credit. It may include certain types of work experiences, community involvement, etc. Students should register for credit under the Off-Campus Study number BA 492. Credit will be awarded only after completion of all agreed upon requirements.

STUDENT ORGANIZATIONS

Business students at UT have the opportunity to belong to several honorary and professional societies. For a complete list of these organizations and the related participation or entrance requirements, please see the listing of honorary and professional societies at the beginning of the catalog. Meeting the following requirements does not guarantee acceptance into the organization.

Alpha Kappa Psi—Professional business fraternity.
American Marketing Association Student Chapter—Open to students interested in marketing careers.
Beta Alpha Psi—Accounting students, graduate or undergraduate, registered in advanced accounting and having a minimum 3.0 average in 9 hours of accounting, as well as in the cumulative GPA.
Delta Sigma Pi—Professional business fraternity.
Logistics and Transportation Association—Open to all Logistics and Transportation majors and any student with an interest in logistics and transportation careers.
Students in Free Enterprise—Open to all business majors. Students complete projects which teach about the free enterprise system.

OTHER AVAILABLE RESOURCES:

Adult Student Services
413 Student Services Building
(865) 974-4504

Career Services
100 Dunford Hall
(865) 974-5435

Center for International Education
Melrose Hall, Section G
(865) 974-3177

Disability Services
191 Hoskins Library
(865) 974-6087

Global Business Institute
Suite 9, Glocker Building
(865) 974-6110

Honors Programs
Melrose Hall, Section F
(865) 974-7875

Math Tutorial Center
322 Ayres Hall

English Writing Center
211 Humanities and Social Sciences Building
(865) 974-2611

GENERAL EDUCATION—FRESHMAN AND SOPHOMORE YEARS

The following courses are prerequisite to all majors in the College of Business Administration except for the Statistics major which is presented in the departmental listing.

CURRICULA

Freshman and Sophomore Curricula
(Except Statistics)

The following courses are prerequisite to all majors in the College of Business Administration.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Freshman</td>
</tr>
<tr>
<td>6</td>
<td>1English 101, 102</td>
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<tr>
<td>1</td>
<td>Mathematics 123, 125 or 141, 142</td>
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<td>6 or 8</td>
<td>Foreign Language</td>
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<td>6</td>
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<td>Humanities</td>
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<td>6</td>
<td>Business Administration 220</td>
</tr>
<tr>
<td>6</td>
<td>Accounting 201, 202</td>
</tr>
<tr>
<td>6</td>
<td>Economics 201</td>
</tr>
<tr>
<td>3</td>
<td>Statistics 201</td>
</tr>
<tr>
<td>3</td>
<td>Oral Communications</td>
</tr>
<tr>
<td>3</td>
<td>Management 203</td>
</tr>
<tr>
<td>6</td>
<td>History</td>
</tr>
</tbody>
</table>

Total: 64-66 hours

ACCOUNTING AND BUSINESS LAW

Professors:
K.G. Stanga (Head and Arthur Andersen Professor of Accou... State, CPA; J.B. Woodroof, Ph.D. Texas Tech, CPA; R.L. Townsend, Ph.D. University of Tennessee, CPA; H.P. Roth, Ph.D. Virginia Polytechnic Institute, CPA, CMA; J.R. Williams (Ernst & Young Professor), Ph.D. Arkansas, CPA.

Associate Professors:
B.K. Behn, Ph.D. Arizona State, CPA; J.V. Carcello, Ph.D., Georgia State, CPA, CMA, CIA; D. Murphy, Ph.D. North Carolina, CPA; I.A. Posey (Emeritus), M.S. Tennessee, CPA, CMA, A.W. Ray, Ph.D., Virginia Polytechnic Institute; W.L. Slagle (Emeritus), M.S., Tennessee, CPA; R.L. Townsend, Ph.D. Texas, CPA; J.B. Woodroof, Ph.D. Texas Tech, CPA.

Assistant Professors:
M.C. Letsinger (Emeritus), M.S. Tennessee, CPA; A.S. Rose, Ph.D. Texas A&M, CPA; J.M. Rose, Ph.D. Texas A&M.

Lecturers:
E.B. Anderson, MACC, Tennessee; A. Bryant, MACC Tennessee, CPA; D.D. DeVries, B.S. South Dakota, CPA, CISA; L.W. Hendrick, M.B.A. Houston, J.D., CPA; H.N. Hughes, B.S. Tennessee; C.M. Pfeifer, MACC Tennessee, CPA; L.M. Reeves, MACC, Tennessee, CPA.

Asian Languages 311, 312, 313, 314; Classics 253, 254; Comparative Literature 202, 203; English 201, 202, 221, 222, 231, 232, 233, 251, 252, 253, 281, 332, or 200-level Honors Literature Courses; Any foreign language courses whose content is literature including foreign literature in English translation; Medieval Studies 261, 262; Music History 310; Religious Studies 312, 313; Women’s Studies 210, 215; Other Humanities: Art 171; Classics 221, 222; Philosophy 110, 111, 120, 121, 130, 135, 290, 342, 360, 380, 382; Religious Studies 101, 102, 232, 235, 300; Women’s Studies 382.

Oral Communications—One course from: Speech 210, 240.

Social Science—Accounting majors must complete a course in Anthropology, Psychology, or Sociology and complete Political Science 101, 102 or 107.
Public Administration majors must complete either Political Science 101 or 107; Anthropology 110, 120, 130, 320; Geography 101, 102, 320, 323; Political Science 101, 102, 107; Psychology 110, 220, 310, 320, 360, 395; Sociology 110, 120, 200, 310, 346, 370, 415, 459.

Statistics majors may substitute Statistics 251 in place of Statistics 201.

Students who complete English 118, Honors English Composition, with a grade of A or B will complete their English Composition requirement by choosing English 102 or a sophomore literature course in the English Department. If the sophomore literature course appears on the list for the Humanities Literature requirement, the course may also be counted toward that Humanities requirement.
The Accounting Program at UT has established itself as one of the nation’s top accounting schools. Modern society demands much from professional accountants. They are responsible for preparing and analyzing financial data and for consulting in many specialized areas such as tax planning and compliance, auditing (examining and verifying financial records), information systems, and management advisory services.

After completing the core requirements for a business education (including courses in statistics, economics, marketing, finance, business law, and management), the accounting major begins extensive work in financial and managerial accounting. The student then completes advanced work in specialized areas such as tax, auditing, and systems. The use of computers in accounting is also stressed.

UTK’s Accounting Programs are accredited by the American Assembly of Collegiate Schools of Business and are among the initial programs in the nation to receive this accreditation. Since 1993, the state of Tennessee has required anyone wishing to take the Uniform Certified Public Accountant (CPA) Examination to complete 150 semester hours of study. Therefore, students are encouraged to continue their formal education in UTK’s one-year Master of Accountancy program.

**Hours Credit**

**Junior**
- Marketing 301 ............................................. 3
- Finance 301 .................................................. 3
- Management 301 .......................................... 3
- Accounting 311 ............................................. 3
- Accounting 341 ............................................. 3
- Accounting 321 ............................................. 3
- Accounting 411 ............................................. 3
- Ethics .......................................................... 3
- Written Communications — One course from: Art 242, 243, or 442.
- Electives ..................................................... 9 or 11

**Senior**
- Management 401 .......................................... 3
- Accounting 414 ............................................. 3
- Accounting 431 ............................................. 3
- Business Law 301 ......................................... 3
- Economics 311 or 313 .................................... 3
- International Business ................................ 3
- Arts Elective ................................................ 3
- Electives ..................................................... 9 or 11

**Total: 126 hours**

**International Business**—The international course requirement may be satisfied by taking either Business Administration 311 or 491 or an international course in a concentration area such as Management 471, Logistics and Transportation 441, Economics 321, Economics 323, or Marketing 440.

**Arts**—One course from the courses listed below: Art 212, Art History 172, 173, 183; Classics 232, 233; English 263; Music History 100, 110, 120; Music General 130; Speech 280, 380; Theatre 100, 220, 221, 260; Women’s Studies 330.

**Ethics**—One course from: Philosophy 242, 243, or 442.

**Written Communications**—One course from English 263, 295, 355, 360, 455.

**FINANCE**

**Professors:**
- J.W. Wansley (Head and Clayton Chair of Excellence), Ph.D. South Carolina; H.A. Black (James F. Smith Professor), Ph.D. Ohio State; T.P. Boehm (Patton Scholar), Ph.D. Washington (St. Louis); R.P. DeGennaro, Ph.D. Ohio State; W.W. Dotterweich (Emeritus), Ph.D. Pennsylvania; M.C. Ehnhardt (Voight Scholar), Ph.D. Georgia Tech; G.C. Philippatos (Distinguished Chaired Professor of Banking and Finance), Ph.D. New York; R.E. Shrieves (Sun Trust Professor of Finance), Ph.D. California (Los Angeles); J.M. Wachowicz, Jr., Ph.D. Illinois.

**Associate Professors:**
- A.L. Auxier, Ph.D. Iowa; M.C. Collins, Ph.D. Georgia; P.R. Daves, Ph.D. North Carolina; D. Murphy, Ph.D. Florida.

The financial major gives students the flexibility to tailor their programs to fit their particular career goals and to prepare for one (or more) of the following specialties:

- **Courses in Investment** lead to careers in investment analysis, commercial and investment banking, and insurance companies. Courses in Real Estate are designed for students who are interested in real estate brokerage, appraising, taxation, law, property management, real estate development, mortgage lending and banking, construction, government loan guarantees, and insurance. Courses in Corporate Finance lead to opportunities in corporate forecasting, planning, and control; cash management; and capital and financial analysis positions. Courses in Financial Institutions and Markets prepare students for opportunities in the management of financial institutions, as well as within the government organizations related to the industry. Courses in Insurance and Risk Management prepare students for opportunities in insurance, business, and public risk management.

**Hours Credit**

**Junior**
- Marketing 301 ............................................. 3
- Finance 301 .................................................. 3
- Management 301 .......................................... 3
- Electives ..................................................... 9 or 11
- Business Law 301 ......................................... 3
- Economics 311 or 313 .................................... 3
- Ethics .......................................................... 3
- Written Communications — One course from: Art 242, 243, or 442.
- Electives ..................................................... 9 or 11

**Senior**
- Ethics — One course from: Philosophy 242, 243, or 442.
- Written Communications — One course from: English 263, 295, 355, 360, 455.
- Economics Electives — Students may select any upper division Economics courses.
- International Business — The international course requirement may be satisfied by taking either Business Administration 311 or 491 or an international course in a concentration area such as Management 471, Logistics and Transportation 441, Economics 321, Economics 323, or Marketing 440.
- Arts Elective — One course from the courses listed below: Art 212, Art History 172, 173, 183; Classics 232, 233; English 263; Music History 100, 110, 120; Music General 130; Speech 280, 380; Theatre 100, 220, 221, 260; Women’s Studies 330.

**Total: 126 hours**

1. **Finance Electives**—A minimum of three courses from the courses listed below: Finance 402, 422, 431, 460, 470, 471, 481, 482, and 493.
2. **Ethics**—One course from: Philosophy 242, 243, or 442.
3. **Written Communications**—One course from: English 263, 295, 355, 360, 455.
4. **International Business** — The international course requirement may be satisfied by taking either Business Administration 311 or 491 or an international course in a concentration area such as Management 471, Logistics and Transportation 441, Economics 321, Economics 323, or Marketing 440.
5. **Arts**—One course from the courses listed below: Art 212, Art History 172, 173, 183; Classics 232, 233; English 263; Music History 100, 110, 120; Music General 130; Speech 280, 380; Theatre 100, 220, 221, 260; Women’s Studies 330.
6. **Finance Electives**—A minimum of three courses from the courses listed below: Finance 402, 422, 431, 460, 470, 471, 481, 482, and 493.
7. **Written Communications**—One course from: English 263, 295, 355, 360, 455.
8. **International Business** — The international course requirement may be satisfied by taking either Business Administration 311 or 491 or an international course in a concentration area such as Management 471, Logistics and Transportation 441, Economics 321, Economics 323, or Marketing 440.
9. **Arts**—One course from the courses listed below: Art 212, Art History 172, 173, 183; Classics 232, 233; English 263; Music History 100, 110, 120; Music General 130; Speech 280, 380; Theatre 100, 220, 221, 260; Women’s Studies 330.
GENERAL BUSINESS

The General Business Program offers a broader education that allows students to gain in-depth knowledge of a particular area of business while retaining an overall perspective. After completing the core requirements for a business degree, General Business majors complete twenty-four additional hours in upper-division business courses.

The wide range of business and arts and science courses required by this curriculum provides a solid base knowledge well suited for entry-level positions in many organizations. Graduates of the General Business program begin their careers as management trainees in sales, banking, insurance, and marketing. The curriculum is also ideal for students interested in pre-law, particularly specialization in corporate law.

Management majors at UT may choose from several different areas of emphasis. Operations management and personnel management are the most specified, but an individualized program may be developed. The foundation is provided by studies of organizational structure and process, human behavior in organizations, and business strategy. Building on that foundation and the core courses in accounting, economics, marketing, and finance, the management major selects courses from the following four areas of emphasis: General Management, Operations Management, Human Resource Management, or International Management.

Career opportunities include staff positions in production planning, inventory management, employment, training, and recruiting. In addition, line management positions in all types of industries, such as manufacturing, retailing, banking, transportation, and hospitality are all available to management majors.

MANAGEMENT

Hours Credit

Junior
Marketing 301 ..................................................... 3
Finance 301 .......................................................... 3
Management 301 ................................................... 3
Electives .................................................................. 3
Business Law 301 .................................................... 3
Economics 311 or 313 or Logistics and Transportation 301 .... 3
General Business Electives .............................. 6
Ethics ................................................................. 3
Written Communications ................................. 3

Senior
Management 401 ................................................... 3
International Business ........................................... 3
Arts Elective ......................................................... 3
Electives .................................................................. 9 or 11

Total: 126 hours

Arts—One course from: Philosophy 242, 342, or 344.
Written Communications—One course from: English 263, 295, 355, 360, 455.
International Business—The international course requirement may be satisfied by taking either Business Administration 311 or 491 or an international course in a concentration area such as Management 471, Logistics and Transportation 441, Economics 321, or Marketing 440.
Arts—One course from the courses listed below: Art 191; Art History 172, 173, 183; Classics 232, 233; English 263; Music History 100, 110, 120; Music General 130; Speech 280, 380; Theatre 100, 220, 221, 260; Women’s Studies 330.

MANAGEMENT SCIENCE PROGRAMS

(Graduate Program only)

Professor:

Associate Professors:
M.R. Bowers, Ph.D. Clemson; C.P. Edirisinghe, Ph.D. British Columbia.

GRADUATE
Consult the Graduate Catalog for information on graduate programs.

MARKETING, LOGISTICS, AND TRANSPORTATION

LOGISTICS AND TRANSPORTATION

Professors:

Associate Professors:
J.H. Foggin, Ph.D. Indiana; M.C. Holcomb, Ph.D. Tennessee.

Assistant Professor:
M.E. Rozicka, Ph.D. Arizona State.

The internationally recognized logistics and transportation program at UT is currently regarded as one of the most comprehensive and contemporary programs in the nation. The program has attained such recognition through its integration of one of the country’s most highly regarded faculties, combined with a fundamental yet innovative curriculum. Logistics refers to the movement of raw materials and component parts into and within a business firm and to the distribution of finished products and services to customers. Because having products and/or services in the right place at the right time is critical for suc-
cess in any business, logistics is an important element in any firm’s comprehensive supply chain. A career in logistics offers students the opportunity to make a significant contribution to corporate effectiveness in this area. Transportation refers to the physical movement of goods between two geographic points. Students interested in transportation will typically accept employment with a carrier (motor, rail, water, or air) or with the logistics and transportation department of a business that purchases transportation services from carriers.

**MARKETING**

Professors: D.J. Barnaby, Ph.D. Purdue; E.R. Cadotte, Ph.D. Ohio State; J.T. Mentzer, Ph.D. Michigan State; R. C. Reizenstein Gardial, Ph.D. Houston; M.A. Moon, Ph.D. State; D.W. Schumann, Ph.D. Missouri.

**M.E. Collins, M.B.A. Middle Tennessee State.**

May be satisfied by taking either Business Administration 311 or 491 or an international course in a concentration area such as Management 471, Logistics and Transportation 441, Economics 321, Economics 233, Marketing 440.

**PUBLIC ADMINISTRATION**

Public Administration is a joint program sponsored by the Department of Economics and the Department of Political Science. It is designed for students interested in public sector management, the formation of public policy, or the interface between the public and private sectors. The program combines general education in business principles with specific courses in government. Students choose electives to focus their interest or expertise.

**ASSOCIATE PROFESSORS:**

K.B. Kahn, Ph.D. Virginia Polytechnic Institute; M.B. Myers, Ph.D. Michigan State.

**Assistant Professor:**

M.E. Collins, M.B.A. Middle Tennessee State.
The general perception of "statisticians" is most often associated with sporting events. The life a professional statistician, however, is much more varied and interesting than computing the average rushing yards per play. Actually, statistics is the science of learning from data, and all processes generate data. Statisticians determine how to collect and manage this necessary information; they interrogate the data and present the results in a clear fashion so that wise decisions can be made.

Statistics is used in various areas of business, industry, science, and government. The fields of opportunity for statisticians are numerous—e.g., economics, finance, market research, e-commerce, engineering, manufacturing, transportation, education, medicine, psychology, agriculture, and computer and social sciences.

There are two basic types of statisticians: applied and theoretical. The focus of the undergraduate program at UT is on applied statistics. Applied statisticians help to improve processes and solve real-world problems. They may forecast economic or population growth, evaluate results of a new marketing program or the effectiveness of a new drug, identify quality control issues in manufacturing, or design experiments to help engineers and scientists determine the best design for a jet airplane.

Prospective statisticians must have a strong aptitude for mathematics, a solid computing background, and an earnest curiosity to explore the practical application of statistics. The skills you will learn as a statistics major at UT will enable you to understand and convey the scope and power of statistical thinking—resulting in significant contributions toward solutions to a variety of important jobs. Well-paying jobs are available at the B.S., M.S., and Ph.D. levels.

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### Junior

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<th>Course</th>
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<tr>
<td>Marketing 301</td>
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<tr>
<td>Finance 301</td>
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<tr>
<td>Management 301</td>
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<tr>
<td>Written Communications</td>
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<td>Statistics 365</td>
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<td>Statistics 320</td>
<td>3</td>
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<tr>
<td>Statistics 330</td>
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<td>Mathematics Elective</td>
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### Senior

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>Business Law 301</td>
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<td>Management 401</td>
<td>3</td>
</tr>
<tr>
<td>International Business</td>
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<tr>
<td>Arts Elective</td>
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</tr>
<tr>
<td>Ethics</td>
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<tr>
<td>Mathematics 471</td>
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<td>Two Courses from Statistics 472, 473, 475</td>
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<td>Mathematics 423, 424, 425</td>
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<tr>
<td>Mathematics Elective</td>
<td>3 or 4</td>
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<tr>
<td>Elective</td>
<td>3</td>
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</table>

**Total: 126 hours**

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### CENTER FOR BUSINESS AND ECONOMIC RESEARCH

- W.F. Fox (Director), Research Professor, Ph.D. Syracuse
- M.N. Murray (Associate Director), Research Professor, Ph.D. Syracuse
- D. Bruce, Research Assistant Professor, Ph.D. Syracuse
- K.E. Quindry (Emeritus), Professor, Ph.D. Kentucky
- M.J. Cornelius, Research Associate, B.S. Tennessee
- V.C. Cunningham, Research Associate, B.A. Tennessee
- P. Dowell, Research Associate, Ph.D. Tennessee
- P.A. Price, Research Associate, B.S. Tennessee
- J.M. Snoderly, Research Associate, B.A. Tennessee
- A.R. Thacker, Research Associate, B.S. Tennessee
- B.B. Vickers, Research Associate, B.A. Mary Washington
College of Communications

Dwight L. Teeter, Jr., Dean
Kelly Leiter, Dean Emeritus
Edward Caudill, Associate Dean for Graduate Studies and Research
Eric Haley, Associate Dean for Undergraduate Studies
Betty Bradley, Director of Advising

Communications is a vital force in today’s complex society. As a result, programs in the College of Communications acquaint students with the communications process and prepare them for professional work in many fields.

The College includes the School of Journalism and Public Relations and the Departments of Advertising, Broadcasting and Speech Communication. Five concentrations are offered: advertising, broadcasting, journalism, public relations and speech communication. The five academic sequences have a core curriculum. This permits specialization at the junior and senior level.

Programs for which accrediting is available are fully accredited. The advertising, broadcasting, journalism, public relations, and graduate programs are accredited by the Accrediting Council on Education in Journalism and Mass Communications.

Exchange programs with the Dutch School of Journalism and Communication, Utrecht, and the Danish School of Journalism, Arhus, offer students an opportunity for a European Semester. Tennessee students study European journalism and communication in the Netherlands or Denmark, but maintain their enrollment at UT and pay only room, board, and transportation costs. A similar exchange program with Escuela de Comunicacion Monica Herrera in Ecuador also exists.

The College, or one of its departments, is a member of the Association of Schools of Journalism and Mass Communication; Association for Education in Journalism and Mass Communication; American Advertising Federation; Advertising Research Foundation; American Academy of Advertising; Broadcast Education Association; Tennessee Press Association; Society of Professional Journalists; Public Relations Society of America; National Communication Association; Southern States Communication Association.

COURSE LOAD

The maximum number of hours an undergraduate may take without special permission is 19 hours. Permission to take more hours must be obtained from the dean or the associate dean for undergraduate studies with the recommendation of the student’s advisor and department head or school director.

REQUIREMENTS FOR ALL CURRICULA

CORE AREAS

All students in the College take the following core areas:

- Overview/Survey
- Writing
- Theory and Research
- Free Speech, Law and Ethics

Each department designates a course (or courses) to fulfill each of the five majors.

SATISFACTORY/NO CREDIT OPTION

This option applies only to general elective courses with the exception of field experience courses. No course that is part of the specific requirements of the College of Communications or a student’s major department can be taken under this option. For example, social science and humanities electives required by the various departments cannot be taken S/NC.

Courses evaluated as “satisfactory” will count as hours toward graduation but not for calculating the grade point average. A student who wishes to take a S/NC course must indicate this at the time of registration. Under no circumstances may a student change from S/NC to regular credit or from regular credit to S/NC after the deadline for adding courses.

MINORS

Minors are offered in Broadcasting, Journalism/Public Relations, and Speech Communication. An interdisciplinary Communications minor is also available.

A minor in Broadcasting consists of 18 hours as follows: Communications 100, Broadcasting 275, Broadcasting 310 or 320, and Broadcasting electives (any three courses).

A minor in Journalism or Public Relations consists of 18 hours from the following: Journalism 200, Communications 400, plus 12 hours in journalism or public relations approved by the School of Journalism minor advisor.

A minor in Speech Communication consists of Speech Communication 100 plus 18 additional hours of Speech Communication courses, at least 12 of which must be at the 300 level and above. Speech Communication 445, 491, 492, 493 may not be included toward requirements for the minor.

An 18 hour interdisciplinary minor in Communications for non-majors is available that consists of either Communications 100 or Speech Communication 100; two 200-level sequence introduction courses (Advertising 250, Broadcasting 275, Journalism 200, Public Relations 270, Speech Communication 260); and three upper division courses across two sequences in which the 200-level introductory courses have been taken. Students seeking an Interdisciplinary minor should see the College of Communications undergraduate associate dean.

HONORS PROGRAM IN SPEECH COMMUNICATION

The Speech Communication Department offers an honors program that provides an intense educational experience designed to assure the participating student a superior and challenging undergraduate education. Speech Communication 107, the Honors version of Introduction to Speech Communication, is open to students with a 3.0 or higher cumulative GPA and to entering freshmen with a 3.5 or higher cumulative high school GPA and/or ACT composite score of 27 or better. Majors who are prospective juniors and who have a 3.0 or higher cumulative GPA and a 3.25 or higher cumulative GPA in the major are eligible to apply for admission to the Speech Communication Honors Program. Application forms are available in the department office. To graduate with Honors, students must meet all requirements for the Speech Communication major.
and must complete 397 (Honors Seminar) during the junior year and 497-498 (Senior Honors Thesis) during the senior year. The GPA requirement for admission to the program must be maintained, and the grade in 498 must be B or higher.

REQUIREMENTS FOR GRADUATION

The Bachelor of Science degree in Communications is awarded to majors who complete a program of 124 hours prescribed under the Advertising, Broadcasting and Journalism departmental requirements listed below. At least 90 of those hours must be taken in courses other than the major or related communications fields. At least 18 of the hours in the major must be taken at the University of Tennessee.

The Bachelor of Arts in Communications degree is awarded to Speech Communication majors who successfully complete the prescribed 124 hours of courses listed below.

Students must achieve a cumulative grade point average of at least 2.0 in all College of Communications courses used to fulfill graduation requirements.

PROGRESSION REQUIREMENTS

Entering freshmen and transfer students are first associated with the College as pre-majors. They may progress to a major in the School of Journalism and Public Relations or the Departments of Broadcasting or Speech Communication after the completion of at least 30 hours of prescribed coursework with a 2.5 cumulative GPA. Students may progress to a major in the Department of Advertising after they complete the course requirements listed for the freshman year with a cumulative grade point average of 2.5.

Until they progress to a major, students may not enroll in courses in the College numbered 300 or above without approval.

Students who do not progress to a major by the time they have accumulated 80 credit hours will be dismissed from the College.

During their last 32 hours prior to graduation, all students must have been accepted as majors in the College.

TRANSFER STUDENTS

Students from other colleges within the University are eligible to progress to a major in the College of Communications, with the exception of the advertising major, as soon as they complete at least 30 hours of prescribed coursework with a 2.5 cumulative GPA, complete Communications or Speech Communication 100, and make application to the appropriate Department or School. Students pursuing a major in advertising must complete the freshman year course requirements with a 2.5 cumulative GPA.

GRADUATE

Consult the Graduate Catalog for listing of graduate level courses.

ADVERTISING

Professors:
Roxanne Howland, Ph.D., Illinois; Ronald E. Taylor (Head), Ph.D., Illinois.

Associate Professors:
Eric Haley, Ph.D., Georgia; Maria G. Hoy, Ph.D., Oklahoma State.

Assistant Professors:
Margaret Morrison, Ph.D., Georgia; Sally McMillan, Ph.D., Oregon.

Emeritus Professor:
Richard Joel, M.A., Wisconsin.

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</table>

Total: 124 hours

1Six hours of intermediate foreign language is required.
2Natural Science Electives are any two courses from: Astronomy 161, 162; Biology 101, 102; Botany 110, 120; Chemistry 100, 110, or 120, 130; Geography 131, 132; Geology 101, 102, or 103.
3Mathematics Electives: 110, 115, 119, 123, 125.
5Professional Electives are a minor in Cinema Studies, Political Science, Geography, Psychology, History, Theatre, African and African-American Studies, Asian Studies, Latin American Studies, Urban Studies, Women's Studies, Economics, Sociology, German, Russian, French, Italian, Spanish, Speech*, Business Administration*, or English.

NOTE: If courses in these areas are taken, at least some general elective hours must be used for courses given in the College of Arts and Sciences. Between general electives and professional electives, at least 14 hours must be taken from the College of Arts and Sciences.

JOURNALISM

Professors:
Paul G. Ashdown, Ph.D., Bowling Green; Dorothy A. Bowles, Ph.D., Wisconsin (Madison); Edward Caudill, Ph.D., North Carolina; James A. Crook (Emeritus), Ph.D., Iowa State; Mark Littmann (Chair of Excellence), Ph.D., Northwestern; Mark Miller, Ph.D., Michigan State; Michael W. Singletary, Ph.D., Southern Illinois; Dwight L. Teeter, Jr., Ph.D., Wisconsin (Madison).

Associate Professors:
Daniel Foley, M.S.J., Northwestern; Robert B. Heller, M.S., Syracuse; Jerry L. Morrow, Ph.D., Toledo; Sammie Lynn Puetz, (Emeritus) M.S., Tennessee.

Assistant Professors:
Lisa T. Fall, Ph.D., Michigan State; Bonnie P. Riechert, Ph.D., Tennessee; Candace L. White, Ph.D., Georgia.

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<td>Professional Electives</td>
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<td>General Electives</td>
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BROADCASTING

Professors:
Barbara A. Moore (Head), Ph.D., Ohio; Norman R. Swan, Jr., Ph.D., Missouri.

Associate Professor:
Benjamin J. Bates, Ph.D., Michigan.

Assistant Professors:
Catherine A. Luther, Ph.D., Minnesota; Mark D. Harmon, Ph.D., Ohio.

Emeritus Professors:
Darrel W. Holt, Ph.D., Northwestern; Herbert H. Howard, Ph.D., Ohio.

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**JOURNALISM CONCENTRATION**

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**TOTAL:** 124 hours

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**PUBLIC RELATIONS CONCENTRATION**

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**TOTAL:** 124 hours

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**SPEECH COMMUNICATION**

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**TOTAL:** 124 hours

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**CLASSIFICATION OF COURSE REQUIREMENTS**

1. Six hours of intermediate foreign language is required.
2. Natural Science Electives are any two courses from: Astronomy 161, 162; Biology 101, 102; Botany 110, 120; Chemistry 100, 110 or 120, 130; Geography 131, 132; Geology 101, 102, or 103.
3. Mathematics Electives: Mathematics 110, 119, or 125; Humanities Electives: Art; Classics; English; Foreign Language; Journalism 444, 456; Music; Theatre; Philosophy: Religious Studies.
5. Social Science Electives: Anthropology; Geography; Economics; History; Political Science; Psychology; Sociology: Child and Family Studies; African and African-American Studies; Women’s Studies; Speech Communication; Information Sciences; Journalism 460.
The College of Education prepares teachers, school administrators, pupil personnel specialists, and other professionals for non-school settings. At the undergraduate level teacher education remains a major function of the College even though students are now required to complete one year of post baccalaureate level work before qualifying for a teacher license.

Prior to the establishment of the College of Education in 1926, courses for teachers were first taught in 1903. Since that time the College has increasingly fulfilled its responsibility to prepare competent preservice graduates, as well as to provide professional growth experiences for in-service educators.

The College of Education's approximate 85 faculty reside in six academic departments. The College's Office of Teacher Education and Licensure coordinates educational licensure programs throughout the College of Education and collaborates with other colleges within the University where professional educators are prepared (see Collaborative Programs section). In addition, the Office of Teacher Education has been responsible for overseeing a series of teacher education reforms which include increased admission standards, strengthened general education, redesigned professional education, and the creation of student/faculty mentoring teams.

In addition to teacher education programs, the College of Education has several non-teacher education majors at the undergraduate level. These majors include: Exercise Science, Human Services, and Sport Management.

Exercise Science graduates attend programs in physical therapy, cardiac rehabilitation, and biomechanics, and are employed in fitness, out-patient rehabilitative, and athletic-training settings.

The College of Education holds membership in the American Association of Colleges for Teacher Education and the Holmes Partnership. Furthermore, all school licensure and school related degree programs are fully accredited by the National Council for Accreditation of Teacher Education, the Southern Association of Colleges and Schools, and the Tennessee State Department of Education. All degree programs which prepare non-school based professionals are accredited by the Southern Association of Colleges and Schools.

The faculty of the College of Education is committed to performing three major functions: (1) to provide professional preparation for teachers, administrators, and school service personnel and non-school based professionals at the undergraduate and graduate levels; (2) to collaborate with school personnel, educational agencies, community agencies, professional groups, and others interested in the evaluation and improvement of educational opportunities, programs, and services; and (3) to promote and conduct investigations which are designed to improve professional education and enhance student/client learning. In performing these functions, it is believed that students should attain a broad cultural background in the arts and sciences, demonstrate mastery of professional knowledge and skills, and have a thorough knowledge of their content field. Through a carefully planned program of combined academic and direct experiences, the prospective professional acquires a depth and breadth of knowledge and understanding which is superior to that of the typical college graduate in cultural and citizenship appreciation as well as in professional and scholarly accomplishment.

The Claxton Complex and the Health, Physical Education, and Recreation Building are functional facilities which are designed for the education of teachers and other professionals. These buildings include science laboratories, seminar rooms, the Instructional Services Center, the Reading Center, the Curriculum Laboratory, the Computer Laboratory, the Bureau of Education, Research and Service, as well as a number of interest centers.

COLLABORATIVE PROGRAMS

Faculty members of the College of Education collaborate with faculty in the colleges cited below in preparing teachers and educational specialists. Students interested in pursuing teacher or educational specialist licensure in these fields earn their baccalaureate degrees from the colleges cited and complete licensure requirements at the conclusion of either the fourth or fifth academic year, depending upon program requirements. Students are referred to the offices indicated below and to Steps I-IV of the licensure requirements cited in this section of the catalog for further information:

College of Agricultural Sciences and Natural Resources, Agriculture Education, Agriculture and Extension Education—201 Morgan Hall;


College of Arts and Sciences, Art Education—Art Department Art and Architecture Building, 1715 Volunteer Boulevard; Elementary Education, Secondary Education: English, Foreign Languages, Mathematics, Science, Social Science—College of Education Advising Center, Claxton Complex A332; Music Education—Music Department, 211A Music Building, 1741 Volunteer Boulevard; Speech and Hearing Education—Audiology and Speech Pathology Department, 457 South Stadium Hall;

College of Social Work, School Social Worker—College of Social Work, 221 Henson Hall.

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PROGRESSION TOWARD DEGREE COMPLETION AND/OR LICENSURE IN TEACHING FIELDS

Progression toward completion of a degree and/or licensure in a teaching field requires acceptance to the Teacher Education Program by a board of admissions. The admissions process begins at the time of matriculation at UT whether the student enters as a freshman or transfer student.\(^1\)

STEP I: ADMISSION TO TEACHER EDUCATION

MINIMUM REQUIREMENTS

Applicants will be evaluated by a board of admissions upon attainment of the following minimal criteria:\(^2\)

1. Academic Achievement: Applicants will be required to earn a minimum 2.7 undergraduate cumulative GPA (2.5 GPA in Agriculture Education; the following programs may have different standards and students should contact the respective program advisor for details: Business/Marketing Education, Home Economics Education, Educational Technology Education, Trades and Industry Education, and Music Education). GPA computations, which include transfer grades, will be made at the time other requirements, listed below, are completed but not before the completion of at least 75 hours of academic work for the following teaching fields: Business/Marketing Education, English Education, Foreign Language Education, Mathematics Education, Social Science Education, or Science Education, 60 semester hours for Elementary Education, and 45 semester hours for all other fields. Any professional education course, taken either before or after admission, must be passed with a minimum letter grade of "C" or better, otherwise such a course must be repeated. If this standard is not met: The applicant will improve his/her academic record by adding or repeating courses.

2. PRAXIS I: Pre-Professional Skills Test (PPST): The applicant will attain the minimum scores established by the State Board of Education on the Pre-Professional Skills Test. Waivers will be granted as follows:

- (a) Applicants who have attained an ACT minimum composite score of 21 (a minimum composite score of 22 on the Enhanced ACT) or who have attained a minimum combined verbal and mathematics score of 920 on the SAT or a 1020 on the SAT II shall be exempt from the PPST.
- (b) Applicants who have earned a bachelor’s degree from an accredited institution.

Applicants who qualify for a waiver based on other standardized test scores must contact the Director of Teacher Education.

If this standard is not met: The applicant will take the PPST I: PPST until passed. Applicants who fail the same subtest twice should consult the Office of the Director of Teacher Education to determine their eligibility for a waiver based on their performance in specific general education courses. Note that it is not necessary to repeat subtests which were previously passed.

3. Hearing and Speech Evaluations: The applicant will perform within normal limits on hearing and speech evaluations.

If this standard is not met: The applicant will participate in therapy, as specified by and provided through the University’s Hearing and Speech Center.

4. Conduct Record: Each applicant will be screened by the University’s Conduct Office. Applicants who have established records of inappropriate conduct will be evaluated by the College’s Teacher Education Standards Committee.

If this standard is not met: The applicant’s disposition will be determined by the Teacher Education Standards Committee.

BOARDS OF ADMISSION

Applicants who successfully complete the minimal requirements will be interviewed by a board of admissions. Boards of admission will base admissions decisions on applicants' academic qualifications, aptitude test scores, oral expression, written communication, and expressed interest in teaching.

ADMISSION DECISIONS

The College is committed to recruiting and preparing the strongest possible candidates for the teaching profession. The admissions criteria summarized above are minimum expectations. Applicants should be aware that admission decisions are made by boards of admission and that selection is competitive, based upon available faculty resources and field placements. Posted GPA and basic skills test scores are minimums which are necessary to interview with boards of admission and do not ensure admittance into programs. Applicants are encouraged to achieve the highest GPA and test scores possible, and to confer regularly with their College’s Advising Center regarding admissions requirements.

Applicants who are denied admission to the specific teaching field of their choice are eligible to seek admission to other teaching fields. Some applicants may be encouraged to interview with the same program following remediation.

Applicants who are admitted, thus, become eligible to enroll in upper division Professional Education courses.

STEP II: PROGRAM PROGRESSION

Each student’s progress will be reviewed each semester following admission to the Teacher Education Program and a determination will be made as to the student’s eligibility to advance to the next level of preparation. Particular attention will be given to the following variables:

1. Academic Achievement: The following

2. PRAXIS II: Subject Area Exam: Depending on the specific teaching field, students may be required to pass the appropriate PRAXIS II: Subject Area Exam.

3. Classification as a senior-level student (i.e. at least 90 semester hours passed) for student teachers and a baccalaureate degree for interns.

4. Possession of the following minimum grade point averages: (a) 2.7 undergraduate cumulative GPA (2.5 GPA in Agriculture Education; the following programs may have different standards and students should contact the respective program advisor for details: Business/Marketing Education, Early Childhood Education, Family and Consumer Sciences Education, Educational Technology Education, Trades and Industry Education, and Music Education), (b) 2.8 GPA in professional education courses (i.e., grades of “D” and “F” in professional education courses must be repeated).

5. Recommendation by the student’s faculty mentoring team to enroll in student teaching or internship.

STEP III: PROGRESSION TO STUDENT TEACHING OR INTERNSHIP

Students seeking authorization to enroll in student teaching or internship must apply at least one calendar year prior to the term of intended student teaching or internship.

Making application to enroll in the internship may occur prior to admission to the Teacher Education Program. Students should apply at least one calendar year prior to the term of actual internship regardless of their status in the Teacher Education Program. Students who choose to delay their enrollment in the internship program are only guaranteed a new placement if they inform the Office of School Based Experiences and their program faculty mentor at least one calendar year prior to the term of intended internship.

The following are the general prerequisites for student teaching or internship. Prerequisites for specific programs (e.g., Art Education, Business/Marketing Education, Elementary Education) are available in the Office of School Based Experiences or from academic advisors.

1. Admission to the Teacher Education Program no later than the term preceding student teaching or internship.

2. Completion of field studies required in the program curriculum.

3. Classification as a senior-level student (i.e. at least 90 semester hours passed) for student teachers and a baccalaureate degree for interns.

4. Possession of the following minimum grade point averages: (a) 2.7 undergraduate cumulative GPA (2.5 GPA in Agriculture Education; the following programs may have different standards and students should contact the respective program advisor for details: Business/Marketing Education, Early Childhood Education, Family and Consumer Sciences Education, Educational Technology Education, Trades and Industry Education, and Music Education), (b) 2.5 GPA in major, and (c) 2.8 GPA in professional education courses (i.e., grades of “D” and “F” must be repeated).

5. Recommendation by the student’s faculty mentoring team to enroll in student teaching or internship.

\(^{1}\)Community college students who anticipate transferring to the College should contact the Education Advising Center, Claxton Complex A332.\(^{2}\)Students seeking admission to the following program areas, in addition, must complete specific courses before being granted a board review:

- (a) Mathematics Education - Mathematics 141-142 and at least 6 additional hours of 200 level or above math;
- (b) Science Education - 8 semester hours of any laboratory natural science;
- (c) Music Education - at least one semester of applied study of music at the 200 level and Music Theory 211;
- (d) English Education and foreign language education require at least 9 semester hours of 300 level (or above) courses in English or foreign language, respectively, and a 3.0 cumulative average in those respective fields.

Deaf applicants are not required to submit to the speech and hearing screening if they are pursuing licensure to teach deaf students. However, such applicants must inform the Director of Teacher Education, Claxton Complex 235, of their intentions.
In addition, any record established by the student in the Office of Student Conduct will be reviewed by the Teacher Education Standards Committee.

Students should note that the most important criterion in placing student teachers or interns in the public schools is the potential value of the placement to the student’s professional development. Therefore, the College cannot guarantee the students’ preferences regarding specific geographic placement will be granted.

Student teaching or internship is evaluated on a satisfactory/no credit basis.

**STEP IV: LICENSURE**

Students must attain the following minimum requirements to qualify for the College’s recommendation for licensure:

1. Academic and professional achievement: Only those students who perform satisfactorily in student teaching or internship will be recommended for licensure. Students who perform unsatisfactorily may be provided another opportunity to succeed. (Such students may be required to participate in remedial courses and/or activities prior to re-enrolling in student teaching or internship.)

   Additional academic requirements include attainment of the following minimal levels of academic achievement: (a) 2.5 undergraduate cumulative GPA and specific teaching field (major) courses, and (b) 2.8 GPA in professional education courses (“D” and “F” course grades must be repeated).

2. PRAXIS TESTS: Professional Assessments for Beginning Teachers: All candidates for licensure are required to attain minimum scores as determined by the State Board of Education. Complete details regarding specific tests required and minimum passing scores can be obtained in the Education Advising Center, Claxton Complex A332.

   Complete details regarding the NTE are available in the Education Advising Center, Claxton Complex A332.

   Applications for teacher licensure should be completed early in the final semester before graduation. Application forms may be obtained in the Education Advising Center, Claxton Complex A332.

   It is important to note that Tennessee regulations stipulate that applicants for initial teacher licensure must be recommended by an approved teacher education institution.

**PROGRESSION TOWARD DEGREE COMPLETION IN NON-TEACHING FIELDS**

**EXERCISE SCIENCE PROGRESSION**

Progression to the Exercise Science Major requires a minimum undergraduate cumulative GPA of 2.5 after a minimum of 45 hours of coursework and completion of ES 100 Orientation to Exercise Science, Chemistry 120, and Physics 221.

1. Any professional course, taken before or after progression into the Exercise Science Program, must be passed with a minimum letter grade of “C.” No professional courses with a grade below “C” will be counted toward the major. Professional courses for entrants are BCMB 230, Exercise Science 325 Athletic Training Techniques, 332 Applied Anatomy, 350 Disease and Injury: Epidemiologic and Demographic Perspectives, 411 Adapted Physical Activity, 414 Fitness Testing and Exercise Prescription, 422 Biomechanics of Human Movement, 480 Physiology of Exercise and all professional electives.

2. Students admitted into the Exercise Science Major must maintain a minimum cumulative GPA of 2.5 thereafter to remain in good academic standing. Students with less than a 2.5 GPA for two consecutive semesters will be dropped from the program.

3. Students must have a minimum cumulative 2.5 GPA to be able to register for, and complete, ES 411 Adapted Physical Activity, 414 Fitness Testing and Exercise Prescription, 422 Biomechanics of Human Movement, and 480 Exercise Physiology.

**HUMAN SERVICES**

The standards which must be met for progression and retention in Human Services are professional in nature, as well as academic, because the program in Human Services prepares students for entry into service professions. Students who wish to pursue a major in Human Services must earn a grade of “C” or higher in the introductory course before progressing to upper division work in the major. Students whose average for courses taken in the major falls below 2.5 must regain this required minimum average by the end of the subsequent semester in order to be retained in the major. A Board of Review will meet once each semester to interview students who wish to progress into the major, and to review the work of students who are not meeting the academic and/or professional standards of the program. Students who wish to do so may ask to be interviewed while taking the introductory course, and if they meet the standards for progression will be allowed to progress to upper division work upon completion of that course with a “C” or higher. Students who in the judgment of the members of the Board are not meeting the professional standards of the program will not be retained in the major.

Applications for Fall/Spring field sequence must be submitted at the beginning of the preceding Spring semester, and students who fail to meet the standards for professional conduct during the course of their field work will not be retained in the major. (Note that any decision affecting progression or retention may be appealed to the head of the Counseling, Deafness, and Human Services Department.) Requests for information about the program, an appointment with the Board of Review, and an application for the field practicum sequence should be directed to the program secretary in Claxton Complex A204.

**SPORT MANAGEMENT PROGRESSION**

Students must complete an application upon completion of the following minimum criteria: 1. application to the Sport Management major; 2. 30 semester hours; 3. minimum 2.5 cumulative GPA.

**Board of Admissions**

The Board of Admissions is made up of the faculty on the Sport Management Program Area Committee and will meet periodically throughout the semester to review applications.

The Board of Admissions will base admissions decisions upon applicants’ academic qualifications, oral and written communication, and expressed interest in sport management.

**Admission Decisions**

The Sport Management Program is committed to recruiting and preparing the strongest possible candidates for the sport management profession. The admissions criteria summarized above are minimum expectations. Applicants should be aware that admission decisions are made by the faculty in Sport Management and that selection is competitive, based upon available faculty resources and field placements.

**MINORS**

**Teaching Minors**

Students who are earning a baccalaureate degree in the College of Arts and Sciences and who are also seeking teacher licensure in Elementary Education, Music Education, Foreign Language Education, Mathematics Education, Music Education, Science Education, or Social Science Education are urged to earn a minor in either elementary or Secondary Education. Students who do not earn a minor as a part of their undergraduate studies will be required to complete the equivalent of a minor as a prerequisite to entering the fifth year of professional study.

Students should note that courses taken to satisfy the minor will not fulfill teacher licensure requirements.

**Dance Minor**

Students interested in a minor in Dance are referred to the College of Education’s Curricula section of this catalog.

**FOREIGN LANGUAGE, MULTICULTURAL, AND INTEGRATED ELECTIVES**

**FOREIGN LANGUAGE Greek (Classics)—any course offered by this department including 111, 121, 251, 252; Latin (Classics)—any course offered by this department including 111, 112, 150, 211, 212, 217, 218; German—any course offered by this department including 101, 102, 108, 150, 201, 202, 208; Italian—any course offered by this department including 111, 112, 211, 212; Portuguese—any course offered by this department including 111, 112, 211, 212; Asian Language/Asian Studies—any course offered by this department including 121, 122, 221, 222, 131, 132, 231, 232, 141, 142, 241, 242, 151, 152, 251, 252, 161, 162, 261, 262; Russian—any course offered by this department including 101, 102, 103, 150, 201, 202, 208; Spanish—111, 112, 150, 211, 212, 217, 218; MULTI-CULTURAL STUDIES African and African-American Studies—any course offered by this department including 201, 202, 314, 315, 343, 352, 353, 354, 371, 373, 420, 421, 429, 431, 445, 450, 452, 461, 473, 480, 483; Asian Studies—any course offered by this department including 101, 102, 319, 471; Cultural Studies 291, 364; Dance 480, 490; Latin-American Studies—any course offered by this