PUBLIC HORTICULTURE CONCENTRATION
The public horticulture concentration is intended for students interested in professional careers which promote horticulture and emphasize people and their education and enjoyment of plants. Such careers include director of a botanical garden or park; city or urban horticulturist; extension agent, teacher, educational director, or program coordinator; professional garden writer/editor or publication manager; horticulture therapist; public garden curator; and plant collections manager. Directed technical electives allow the student to concentrate in an area of their interest while encouraging the development of good people skills. Students are required internship training in the area of their interest. 

Freshman
Botany 110-120 .......................................................... 8
Chemistry 100 or 120 .................................................. 4
English 101-102 .......................................................... 6
Math 119 and (123 or 125) .............................................. 6
OHLD 110 ................................................................. 3
1 Natural Science Elective ........................................... 4
1 History Elective ....................................................... 3
1 Humanities Elective ............................................... 3
1 Social Science Elective ............................................ 3
1 Writing Elective ..................................................... 3

Sophomore
Select 2 from OHLD 220, 225, 230, 231 or 280 .... 5-6
Agriculture and Natural Resources 290 .... 3
Select 1 from Educational Psychology 210, Public Relations 270; Recreational and Tourism Management 201; Forestry and Fisheries 211, or 250 ...... 3
1 Social Science Elective ........................................... 3
Environmental and Soil Sciences 210 .............. 4
Speech 210 or 240 .................................................... 3
1 Humanities Elective ............................................... 3
1 History Elective ..................................................... 3

Junior
Select 4 from OHLD 330, 350, 360, 370, 380, 390, 391, IPS 334 or 340 .................................................. 11-12
OHLD 326 .............................................................. 3
Select 1 from Philosophy 342, Agriculture and Extension Education 346, or Journalism 310 .... 3
Select 2 from Botany 309, 330; Entomology and Plant Pathology 313, 321, 410 ............... 6
Select 2 from Technical Electives .............. 6

Senior
Select 4 from OHLD 410, 421, 427, 429, 430,434, 438, 446, 450, 451, 480, 485, 494, IPS 431, 433, 434, 435, 440, or PSLS 493 .... 8-12
PSLS 490 .............................................................. 1
PSLS 492 .............................................................. 3
1 Social Science Elective ........................................... 3
Writing Elective ..................................................... 3
1 History Elective ..................................................... 3
Select 2 from Technical Electives .............. 6

TURFGRASS MANAGEMENT CONCENTRATION
The Turfgrass Management Concentration is designed for the student desiring to pursue professions that include growing and managing turfgrasses used for golf courses, parks, athletic fields, sports complexes, and residential and commercial lawns. Careful selection of departmental courses and other electives in consultation with your academic advisor will prepare graduates for the career of their choice. 

Hours Credit
Freshman
Botany 110-120 .......................................................... 8
Chemistry 100-110 or 120-130 ........................................ 8
English 101-102 .......................................................... 6
Math 119 and (123 or 125) .............................................. 6
OHLD 110 or IPS 230 .................................................. 3
1 Social Science Elective ........................................... 3
Sophomore
Select 1 from OHLD 220, 225, 230, 231, or 280 .... 2-3
Agriculture and Natural Resources 290 .... 3
Writing Elective ..................................................... 3
1 Humanities Elective ............................................... 3
1 Social Science Elective ........................................... 4
Environmental and Soil Sciences 210 .............. 4
Speech 210 or 240 .................................................... 3
History Elective ..................................................... 3
Unrestricted Elective .................................................. 3
Junior
IPS 340 ................................................................. 3
OHLD 370 .............................................................. 3
IPS 334 ................................................................. 3
Select 3 from OHLD 330, 350, 360, 390, or 391 .... 8-12
PSLS 492 .............................................................. 3
Select 2 from Technical Electives .............. 6
1 History Elective ..................................................... 3
Senior
Select 4 from OHLD 410, 421, 430, 451, 460, 494; IPS 431, 433, 434, 435, 453, PSLS 471, 493 .... 5-12
IPS 440 ................................................................. 4
PSLS 490 .............................................................. 1
Select 2 from Technical Electives .............. 6
Botany 321 ............................................................. 4
1 Humanities Elective ............................................... 3
Unrestricted Electives .................................................. 3

Total: 124 hours

1 Lists of appropriate electives are available and should be selected in conference with academic advisor.

ADDITIONAL ELECTIVES LIST:

BUSINESS MANAGEMENT CONCENTRATION
Technical Electives:
- Biosystems Engineering Tech. 202, 212, 452, 462
- Environmental and Soil Sciences 324, 334, 462
- Entomology and Plant Pathology 313, 321, 410

HORTICULTURE AND AGRONOMY CONCENTRATION
Technical Electives: Agronomy Tract
- Agricultural Economics Elective (3)
- Biosystems Engineering Tech. 212, 452, 462
- Botany 310, 330
- Environmental and Soil Sciences 324, 355, 434, 442, 444
- Forestry, Wildlife, and Fisheries 250

Technical Electives: Horticulture Tract
- Agricultural Economics Elective
- Biosystems Engineering Technology 212, 452, 462
- Botany 310, 412, 431, 451
- Forestry, Wildlife, and Fisheries 250

LANDSCAPE DESIGN CONCENTRATION
Environmental/Technical Electives:
- Architecture 111, 180, 211, 232, 421
- Art 101, 103, 191, 295
- Art Drawing 211, 212
- Biology 250
- Biosystems Engineering Technology 202, 212
- Botany 305, 306, 330, 431
- Entomology and Plant Pathology 306, 313, 321, 410
- Environmental and Soil Sciences 324, 334
- Forestry, Wildlife, and Fisheries 211, 250
- Geography 310, 439
- Urban and Regional Planning 401, 402

PUBLIC HORTICULTURE CONCENTRATION
Technical Electives:
- Accounting 415
- Botany 431
- Educational Psychology 210
- Forestry 423
- Interior Design 200
- Philosophy 342
- Environmental and Soil Sciences 413, 414, 415
- Public Health 410
- Public Relations 470
- Recreation and Tourism Management 410, 430
- Speech 440

PUBLIC HORTICULTURE AND LANDSCAPE DESIGN CONCENTRATIONS
Natural Science Electives:
- Chemistry 110, 130
- Geography 131
- Geology 101, 103

TURFGRASS MANAGEMENT CONCENTRATION
Technical Electives:
- Agricultural Economics Elective (3)
- Biosystems Engineering Tech. 202, 212, 452, 462
- Environmental and Soil Sciences 310, 311, 315, 432
- Entomology and Plant Pathology 313, 321, 410
- Engineering 243 and Math 142
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, darkrooms, experimental construction platforms, 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 abilities. 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. Alumnae actively 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 laptop 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 prerequisite levels 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 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, Ph.D. University of Pennsylvania; B. Klinkhammer, M. Arch. RWTH; S. Stach, M. Arch. RWTH (Aachen); A. Thurston, 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 specialized requirements, the student should refer to the Student Handbook of the School of Architecture and the student's faculty advisor.

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year</td>
<td></td>
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<tr>
<td>Architecture 101, 102</td>
<td>5</td>
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<tr>
<td>Architecture 121, 122</td>
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<td>Architecture 171, 172</td>
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<td>Architecture 211</td>
<td>3</td>
</tr>
<tr>
<td>English 101, 102</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 125 or Elective</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>Second Year</td>
<td></td>
</tr>
<tr>
<td>Architecture 212, 213</td>
<td>6</td>
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<tr>
<td>Architecture 231</td>
<td>3</td>
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<tr>
<td>Architecture 232</td>
<td>3</td>
</tr>
<tr>
<td>Physics 101, 135, 137, or 161</td>
<td>12</td>
</tr>
<tr>
<td>Electives</td>
<td>9</td>
</tr>
<tr>
<td>Third Year</td>
<td></td>
</tr>
<tr>
<td>Architecture 312</td>
<td>3</td>
</tr>
<tr>
<td>Architecture 331, 332</td>
<td>8</td>
</tr>
<tr>
<td>Architecture 341, 342</td>
<td>8</td>
</tr>
<tr>
<td>Architecture 371, 372</td>
<td>12</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td>Fourth Year</td>
<td></td>
</tr>
<tr>
<td>Architecture 431</td>
<td>3</td>
</tr>
<tr>
<td>Architecture 471, 472</td>
<td>12</td>
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<tr>
<td>Electives</td>
<td>18</td>
</tr>
<tr>
<td>Fifth Year</td>
<td></td>
</tr>
<tr>
<td>Architecture 462</td>
<td>4</td>
</tr>
<tr>
<td>Architecture 480</td>
<td>3</td>
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<tr>
<td>Design Course Option</td>
<td>12</td>
</tr>
<tr>
<td>Electives</td>
<td>15</td>
</tr>
</tbody>
</table>

Total: 171 hours

1Students are exempt from Mathematics 125 with a grade point average of 2.3. 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, ANDIDEOS

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 The 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.

SPECIAL TOPIC DESIGN STUDIES

Since 1981, architecture students at the Urban Design Center in Chattanooga have had the opportunity to contribute to the evolving urban identity of Chattanooga by working with city leaders on various strategic sites for future development in the city. The visionary work of the Urban Design Center is recognized nationally as a wonderful example of how teaching, creative work and community service can be combined as a meaningful learning experience for advanced students.

Interdisciplinary design studios are available to upper class students. A very popular studio of Historic Preservation unites interior Design students with Architecture students who collaborate together on projects of historical significance for different communities.

In 1997, The University of Tennessee College of Architecture and Design and the University of Arkansas College of Architecture have formed the Memphis Center for Architecture. This is a spring semester course of study for advanced design students in Architecture, Landscape Architecture, and Interior Design. One important goal of this Memphis Center for Architecture is to provide a bridge to the very strong professional community in Memphis, with opportunities for lectures, exhibits, reviews, continuing education, and summer internship arrangements.

During the summer, students may elect to participate in different programs sponsored by the University of Tennessee College of Architecture and Design. Furthermore, students may also participate in summer programs sponsored by other accredited architecture schools. Students will receive appropriate college credit, which may lead to advance standing within the program.

OPPORTUNITIES FOR FOREIGN STUDY

Students in their fourth year of study may elect to spend one semester studying abroad in a program, organized either by the University of Tennessee or by other accredited architecture programs. Since 1986, the School has had a very successful exchange agreement with the University of Krakow in Poland.

In cooperation with the Danish International Student Committee, a program is regularly offered in Copenhagen which attracts architecture students from around the world. The University of Tennessee is involved in a recently established International Studies at the Bauhaus University in Weimar. The University also has an exchange agreement with the Royal Melbourne Institute of Architecture in Melbourne, Australia, with Chongqing Institute of Architecture and Engineering in Sichuan Province, China, and with the University of Frankfurt in Germany.

During the summer, many different summer programs abroad sponsored by other architecture schools are available to University of Tennessee students for transfer credit. Students are encouraged to seek new educational experiences.
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 graduating students’ work, where students have the opportunity to discuss their work 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:

In 1966, 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 liable 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 the 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, may work as a part of a design team within an architecture 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.

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.

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.
2. Cumulative grade point average in the major of 3.0 or greater in the following ID courses: 141, 171, 200, 221, 271, 272, 231, 261, with no grade below a C.
3. Portfolio Review accepted by faculty.
4. Successful interview following completion of ID 272.

For retention, student must meet the following criteria:
1. Before enrolling in any ID course, a grade of C or better must be made in each prerequisite required ID course.
2. Cumulative grade point average of 2.3 or greater.
3. Grade of I must be removed before registration for next ID course.

For graduation from the Interior Design program, students must meet the following criteria:
1. Grade of C or better in all ID courses.

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.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Credit</th>
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<tbody>
<tr>
<td>First Year</td>
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<tr>
<td>Architecture 101, 121, 122</td>
<td>7</td>
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<tr>
<td>Architecture 171, 172</td>
<td>7</td>
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<tr>
<td>Interior Design 141, 171</td>
<td>5</td>
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<tr>
<td>Mathematics 119</td>
<td>3</td>
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<tr>
<td>English 101, 102</td>
<td>6</td>
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<tr>
<td>Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Second Year</td>
<td></td>
</tr>
<tr>
<td>Interior Design 271, 272, 231, 261, 200</td>
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<tr>
<td>Interior Design 221</td>
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<td>Art 172, 173</td>
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<td>Physics 161</td>
<td>6</td>
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<tr>
<td>2 Natural Science</td>
<td>6-7</td>
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<tr>
<td>Third Year</td>
<td></td>
</tr>
<tr>
<td>Interior Design 371, 372, 311, 312, 431, 360</td>
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<tr>
<td>Architecture 342</td>
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<td>TS 220</td>
<td>3</td>
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<tr>
<td>Social Science Elective</td>
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</tr>
<tr>
<td>Summer (ID 420)</td>
<td>3</td>
</tr>
<tr>
<td>Fourth Year</td>
<td></td>
</tr>
<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>
</tr>
<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>
<tr>
<td>Total: 135-136 hours</td>
<td></td>
</tr>
</tbody>
</table>

1. Select 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.

2. Select Physics 161 (required) and one other science, such as Astronomy 151, Botany 110, Biology 101, Chemistry 120, Geology 101.


4. Select any History course.


6. Select from Interior Design or approved Architecture courses.
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.

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 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 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. The great universities of the world are so labeled because their faculties have 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 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 a 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 only with prior approval of the faculty member and the department concerned. It may include certain kinds of work experiences, community involvements, working in political campaigns, etc. Credit per semester will vary from 1-15 hours. Up to 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 under the foreign study number 491. The nature of this work as well as credit for it should be negotiated by students prior to departure with the appropriate 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 departmental or interdepartmental major fields described below.
   Individualized Program Designed for students whose educational goals are best met by a program tailored to their particular needs, it is the same as the Basic program in broad area requirements but permits the student to develop an individual concentration incorporating work in two or more departments.
   College Scholars Program Intended for a limited number of students who are especially qualified and motivated and who have been selected to undertake this honors program, the College Scholars Program permits the students maximum freedom to design a curriculum to meet particular interests and goals.

2. BACHELOR OF SCIENCE
   The Bachelor of Science degree, offered in selected departments and programs, is designed for students who wish to pursue a more scientifically or professionally oriented program of study. Three programs leading to this degree are offered:
   Basic Program The Basic Program for the 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 3+1 curricula in the health sciences (medicine, dentistry, pharmacy, physical therapy, veterinary medicine, or medical technology). Students taking one of the health sciences curriculum programs may be offered specialized training in the chosen area after the third year of Arts and Sciences study and complete the first year of professional study in lieu of satisfying the requirements for the B.S. degree with a major concentration in the college.
   Bachelor of Science in Chemistry (See Department of Chemistry.)

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 divisional distribution requirements. Courses used for the major may not be used to satisfy upper level distribution requirements. Students may choose to develop one or more minors (minimum 15 hours at the 200 level and above); 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 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
- Italian 211-212 Intermediate Italian
- Portuguese 211-212 Intermediate Portuguese
- Russian 201-202 Intermediate Russian

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 Requirement.

- List A: Literature under the Humanities Distribution Requirement
- Placement information: All students who wish to enroll in a French, German, Latin or Spanish course, who have completed at least two years of this language in high school and who have not yet taken a college course in the language must take a UK placement examination beforehand. 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.


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 study and use of different kinds of human knowledge. The distribution requirements are in two parts. Part A: Distributional 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: DISTRIBUTIONAL 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 and problem-solving in 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
- Chemistry 120-130: General Chemistry
- 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.
- Physics 135-136: Introduction to Physics for Physical Science and Mathematics Majors
- Physics 137-138: Honors: Fundamentals of Physics for Physics Majors
- Physics 221-222: Elements of Physics

List B:
- Anthropology 110: Human Origins and 210: Principles of Biological Anthropology
- Astronomy 151-152: Introductory Astronomy
- Botany 306: Genetics and Society
- Chemistry 150: Chemistry and Society and Chemistry 160: Chemistry and the Home
- Computer Science 102: Introduction to Computer Science and either 140: Data Structures or 160: Computer Organization
- Geology 201: Biodiversity: Past, Present, and Future and 202: Earth as an Ecosystem: Modern Problems and Solutions; or 201 and 203: Geology of National Parks; or 202 and 203
- Mathematics: Any two Mathematics courses numbered 110 or higher
- Microbiology 210: General Microbiology and Biochemistry, Cellular and Molecular Biology 230: Human Physiology
- Statistics 201: Introduction to Statistics and any Mathematics course numbered 110 or higher except Mathematics 115 (If Mathematics 115 is used to satisfy Basic Skills or Natural Science requirements, Statistics 201 may not be selected to meet this requirement.)

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
- Anthropology 130: Cultural Anthropology
- Principles of Archeology
- Audiology and Speech Pathology 320: Speech and Language Development
- Botany 305: Socio-Economic Impact of Plants
- Economics 201: Introudcory Economics: A Survey Course; 207: Honors Introductory Economics
the Western World I; Ancient, Medieval and Renaissance; 222: Literature of the Western World II; Enlightenment, Romantic and Modern; 231: American Literature I; Colonial Era to the Civil War; 232: American Literature ii; Civil War to the Present; 233: Major Black Writers; 251: Introduction to Poetry; 252: Introduction to Drama; 253: Introduction to Fiction; 254: Themes in 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; Spanish 291: Spanish Literature in English Translation; Women's Studies 210: Images of Women in Literature: Biography and Autobiography; 215: Images of Women in Literature: Fiction, Poetry, Drama

List B: Philosophical and Religious Thought

Classics 201: Introduction to Classical Civilization; 221: Early Greek Mythology; 222: Classical Greek and Roman Mythology; Philosophy 110: 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: Bioethics (Same as Religious Studies 345); 346: Environmental Ethics; 380: The Concept of Woman (Same as Women's Studies 380); 382: Philosophy of Feminism (Same as Women's Studies 382); Religious Studies 101: World Religions in History; 102: The Comparison of World Religions; 321: Near Easterner Origins; 322: Christian Thought

List C: Study or Practice of the Arts


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 context of the ideas, values, social and political conditions that affect them. Students must complete this requirement by completion of one of the following sequences. All courses are writing-emphasis courses.


PART B: UPPER LEVEL DISTRIBUTION REQUIREMENTS

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

Bachelor of Arts students may meet this requirement by completion of two courses from one 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

phy 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 381: Minerals and Energy Resources History 351: The American Revolution; 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

Music History 350; History of Jazz (Same as African and African-American Studies 350)
Philosophy 390: Philosophical Foundations of Democracy

Political Science 311: Contemporary Issues in American Public Policy; 312: Popular Culture and American Politics (Same as American Studies 312 and Cinema Studies 312); 330: Late Antique and Medieval Society (Same as Legal Studies 330); 374: American Political Thought

Psychology 434: Psychology and Gender (Same as Women’s Studies 434).


Sociology 310: American Society; 340: Class Structure; 343: Race and Ethnicity (Same as 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; 365: History of 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 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, 1600-1765; 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: Highlights of French Civilization; 432: Contemporary French Literature

Geography 371: Geography of Europe 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: Caribbean and Atlantic 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

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)


Philosophical Thought

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 Culture (Same as Judaic Studies 385); 405: Modern Jewish Thought (Same as Judaic Studies 405)

Critical Issues in Foreign Studies

Economics 332: 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 Crusades and Medieval Christian-Muslim Relations; 484: Studies in Jewish History (Same as Judaic Studies 484)

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 and oral 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.

Audiology and Speech Pathology 499: Senior Seminar in Communication Sciences and Disorders
Biochemistry and Cellular and Molecular Biology 409: Perspectives in BCMB; 420: Advanced Topics in BCMB
Botany 471: Senior Seminar
Chemistry 495: Topics in the Development of Chemistry
Computer Science 411: Senior Thesis I;
412: Senior Thesis II
Ecology and Evolutionary Biology 409: Perspectives in Ecology and Evolutionary Biology
Economics 499: Analysis of Economic Problems
English 499: Senior Seminar
French 440: Capstone Experience in French Geography 499: Proseminar in Geography Geology 440: Field Geology; 475: Physical and Chemical Systems of the Earth
History 482: Colloquium in History
Human Services 430: Working Within the System
Mathematics 411: Mathematical Modeling;
400: History of Mathematics
Microbiology 495: Senior Seminar
Music History 460: Music Aesthetics
Physics 401: Background of Physics;
402: Forefront of Physics
Psychology 430: Health Psychology;
496: Senior Seminar; Great Ideas in Psychology
Urban Studies 460: Senior Seminar

AREAS OF CONCENTRATION

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 may 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 among minors and Basic Skills and Distribution requirements. Students who satisfy the requirements of a degree in a college other than Arts and Sciences may also minor inside the College of Arts and Sciences with the approval of the degree granting unit. The minimum requirement for a minor is 15 credit hours in courses numbered 200 or above. Minors are available in most departments or programs in which majors are offered, and also in Astronomy, Portuguese, and Cinema Studies. 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, Business Administration 201, Economics 201, Statistics 201, Finance 301, Marketing 300, and Management 300. 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. The Arts and 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 those in the Basic Program. The point at which the individualization takes place is in the area of concentration. The quantitative aspect of the area of concentration is the same as for the major in the Basic Program (i.e., a minimum of 24 hours in courses numbered above 200), and at least two-thirds of the courses must be selected from disciplines within the College of Arts and Sciences. The student may design a program in consultation with an advisor and submit it for consideration to the Committee on the Individualized Program. The proposed courses of study must have some clear central purpose, usually implemented through intensive work in two or three departments; an undirected scattering of courses will not be approved. 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 64 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 not replace courses in the Scholars' transcripts. Scholars will not be required to meet Basic Skills or Distribution requirements in order to have such majors or minors officially recognized.

Further information and applications may be obtained from Arts and Sciences Advising Services.

**PRE-PROFESSIONAL PROGRAMS**

**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, 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. 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. In the four-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 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-medical students are encouraged to plan to complete all requirements for the B.A. or B.S. degree before enrolling in the College of Dentistry.

<table>
<thead>
<tr>
<th>Hours Credit</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Freshman</td>
<td></td>
</tr>
<tr>
<td>English 101-102 or equivalent                      6</td>
<td></td>
</tr>
<tr>
<td>Biology 130, 140                                    8</td>
<td></td>
</tr>
<tr>
<td>Chemistry 120-130                                   8</td>
<td></td>
</tr>
<tr>
<td>Mathematics                                          3-8</td>
<td></td>
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<tr>
<td>Electives                                            3</td>
<td></td>
</tr>
<tr>
<td>Sophomore</td>
<td></td>
</tr>
<tr>
<td>Chemistry 350, 360, 369                              8</td>
<td></td>
</tr>
<tr>
<td>Physics 211-222                                     8</td>
<td></td>
</tr>
<tr>
<td>Divisional Distribution: Humanities                 3</td>
<td></td>
</tr>
<tr>
<td>Divisional Distribution: Non-U.S. History           6</td>
<td></td>
</tr>
<tr>
<td>Electives                                            3</td>
<td></td>
</tr>
<tr>
<td>Basic Skills (b) Foreign Language (Intermediate Level Sequence) 6</td>
<td></td>
</tr>
<tr>
<td>Junior</td>
<td></td>
</tr>
<tr>
<td>Divisional Distribution: Humanities                 3</td>
<td></td>
</tr>
<tr>
<td>Divisional Distribution: Social Sciences            6</td>
<td></td>
</tr>
<tr>
<td>Upper Level Distribution (A) U.S. Studies           3-8</td>
<td></td>
</tr>
<tr>
<td>(B) Foreign Studies or (C) Capstone Experience       6</td>
<td></td>
</tr>
<tr>
<td>Electives                                            6-16</td>
<td></td>
</tr>
<tr>
<td>Total: 93 hours</td>
<td></td>
</tr>
<tr>
<td>Senior</td>
<td></td>
</tr>
<tr>
<td>Completion of major program and B.A./B.S. require-</td>
<td></td>
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<tr>
<td>ments or completion of one year at UT Health</td>
<td></td>
</tr>
<tr>
<td>Science Center, Memphis.</td>
<td></td>
</tr>
<tr>
<td>Total: 124 minimum hours</td>
<td></td>
</tr>
</tbody>
</table>

**PRE-MEDICAL PROGRAM**

The college offers a three-year program leading to a B.S. degree, 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 the 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 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.

<table>
<thead>
<tr>
<th>Hours Credit</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td></td>
</tr>
<tr>
<td>English 101-102 or equivalent                      6</td>
<td></td>
</tr>
<tr>
<td>Biology 130, 140                                    8</td>
<td></td>
</tr>
<tr>
<td>Chemistry 120-130                                   8</td>
<td></td>
</tr>
<tr>
<td>Mathematics                                          8</td>
<td></td>
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<tr>
<td>Electives                                            3</td>
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</tr>
<tr>
<td>Sophomore</td>
<td></td>
</tr>
<tr>
<td>Chemistry 350, 360, 369                              8</td>
<td></td>
</tr>
<tr>
<td>Physics 211-222                                     8</td>
<td></td>
</tr>
<tr>
<td>Divisional Distribution: Humanities                 3</td>
<td></td>
</tr>
<tr>
<td>Divisional Distribution: Non-U.S. History           6</td>
<td></td>
</tr>
<tr>
<td>Electives                                            3</td>
<td></td>
</tr>
<tr>
<td>Basic Skills (b) Foreign Language (Intermediate Level Sequence) 6</td>
<td></td>
</tr>
<tr>
<td>Junior</td>
<td></td>
</tr>
<tr>
<td>Divisional Distribution: Humanities                 3</td>
<td></td>
</tr>
<tr>
<td>Divisional Distribution: Social Sciences            6</td>
<td></td>
</tr>
<tr>
<td>Upper Level Distribution (A) U.S. Studies           3-8</td>
<td></td>
</tr>
<tr>
<td>(B) Foreign Studies or (C) Capstone Experience       6</td>
<td></td>
</tr>
<tr>
<td>Electives                                            6-16</td>
<td></td>
</tr>
<tr>
<td>Total: 124 minimum hours</td>
<td></td>
</tr>
</tbody>
</table>

**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 60 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.

The three-year program leading to a B.S. degree and the four-year program leading to either a B.A. or B.S. degree from the University of Tennessee as well as to the professional degree in pharmacy from UT Health Science Center, Memphis, are based upon the program outlined below. In the three-year program, the student must complete at least 93 credit hours while enrolled in the College of Arts and Sciences, and the B.S. degree is granted upon satisfactory completion of the first year of study in Memphis. In the four-year program the B.A. or B.S. degree is granted upon completion of 124 or more credit hours while enrolled in the college, including a major

1. Or equivalent honors courses.
2. Dental schools require 8 hours of Biology.
3. Math placement depends on high school courses and grades, ACT scores, and B.A/B.S. requirements. Mathematics 130 or any Calculus course is a prerequisite to Physics. All students must complete the Math Basic Skills requirements as outlined in the Arts and Sciences curriculum.
4. This requirement assumes a student has had enough language background in high school to begin an intermediate language sequence at UT.
5. BA students must complete a minimum of 12 credits from at least two of the three areas. BS students must complete a minimum of 6 credits from at least two areas for the Social Science requirement.
6. 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 from two of the three areas. (Upper Level Distribution).
7. This requirement assumes a student has had enough language background in high school to begin an intermediate language sequence at UT.
8. The College of Medicine at E. T. S. U. requires one course in literature. BA students must take at least one course from List A: Literature and one course from List B: Philosophical and Religious Thought plus one additional course from List A, B, or C. BS students must complete a minimum of six credits from the three lists under the Humanities requirement; not more than 3 credits may be taken in the Arts.
9. 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.
10. 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).
11. 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.
12. Upper Level Distribution (A) U.S. Studies, (B) Foreign Studies or (C) Capstone Experience ...... 6
13. Electives ...................................................... 16
of 24 or more hours in addition to the courses outlined below. The requirement for a major is waived for those taking their fourth year at 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 enrolling in the College of Pharmacy.

### Hours Credit

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Chemistry 120-130</th>
<th>Basic Skills Foreign Language</th>
<th>Divisional Distribution: U.S. History</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
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<td>6</td>
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</table>

<table>
<thead>
<tr>
<th>Sophomore</th>
<th>Biology 130-140</th>
<th>Chemistry 350, 360, 369</th>
<th>Speech Communication 210, 220, or 240</th>
</tr>
</thead>
<tbody>
<tr>
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<td>8</td>
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</table>

<table>
<thead>
<tr>
<th>Junior</th>
<th>Statistics 201</th>
<th>Physics 221-222</th>
<th>Divisional Distribution: Humanities</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>8</td>
<td>6</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior</th>
<th>Completion of major program and B.A./B.S. requirements or completion of one year at UT Health Science Center, Memphis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total: 124 minimum hours</td>
</tr>
</tbody>
</table>

1. Or equivalent honors courses.
2. Math placement depends on high school courses and grades, ACT scores, and BA/BS requirements. The College of Pharmacy requires one Calculus course. Math 125, Math 141, or Math 152 will fulfill this requirement. If a student is considering a major in a biological or physical science, he/she should consult with an advisor on the selection of the appropriate math sequence.

### PRE-PHYSICAL THERAPY PROGRAM

The following program is designed for students who wish to pursue an Arts and Sciences degree while preparing for the study of Physical Therapy. Students in this program must complete at least 93 hours credit hours while enrolled in the College of Arts and Sciences, must satisfy the Basic Skills and Distribution requirements, and must complete the last 30 hours in residence at UT Knoxville before enrolling in the College of Allied Health Sciences at the UT Health Science Center in Memphis, Tennessee. A departmental major is not required. Upon successful completion of the first year of the professional physical therapy curriculum, the Bachelor of Science degree will be conferred by the College of Arts and Sciences.

Note: Admission to the College of Allied Health Sciences 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 Allied Health Sciences.

### Hours Credit

<table>
<thead>
<tr>
<th>Freshman</th>
<th>English 101-102 or equivalent</th>
<th>Biology 130-140</th>
<th>Chemistry 120-130</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6</td>
<td>8</td>
<td>8</td>
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</table>

<table>
<thead>
<tr>
<th>Sophomore</th>
<th>Molecular Biology 230, Ecology and Evolutionary Biology 240</th>
<th>Physics 221-222</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8</td>
<td>8</td>
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<table>
<thead>
<tr>
<th>Junior</th>
<th>Humanities</th>
<th>Social Sciences</th>
<th>Upper Level Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Social Sciences</td>
<td>3</td>
<td>3</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Senior</th>
<th>Completion of major program and BA/BS requirements or completion of one year at UT Health Science Center in Memphis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total: 93 hours minimum</td>
</tr>
</tbody>
</table>

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

### Hours Credit

<table>
<thead>
<tr>
<th>Freshman</th>
<th>English 101-102</th>
</tr>
</thead>
<tbody>
<tr>
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<table>
<thead>
<tr>
<th>Sophomore</th>
<th>Molecular Biology 230 and Ecology and Evolutionary Biology 240</th>
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</thead>
<tbody>
<tr>
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<td>9</td>
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</table>

<table>
<thead>
<tr>
<th>Junior</th>
<th>Biochemistry and Cellular and Molecular Biology 230, Ecology and Evolutionary Biology 240</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior</th>
<th>Completion of major program and BA/BS requirements or completion of one year at UT Health Science Center in Memphis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total: 124 hours minimum</td>
</tr>
</tbody>
</table>
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 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.

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)

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 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 450: 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 (2); Ecology and Evolutionary Biology 484: Conservation Biology (3); Forestry, Wildlife and Fisheries 311: Dendrology and Silvics of North American Trees (3); Geography of Zoology 135: Biogeography of Geoology 439: Plant Geography of North America (3); Geology 320: Paleobiology (3); Geology 420: Paleoclimatology (3); Geobiology 310-19: Introduction to Microbiology and Lab (3,1); +Microbiology 470: Microbial Ecology (3).

B. Physical-Chemical Sciences Track
Biochemistry and Cellular Molecular Biology 310; Physical Chemistry 4 (4); Chemistry 350-360-369: Organic Chemistry and Lab (3,3,2); Ecology and Evolutionary Biology 446: Introduction to Oceanography (4); Geography 334: Meteorology (3); Geography 433: The Land-Surface System (3); Geography 434: Climatology (3); Geography 436: Water Resources (3); Geology 450: Process Geomorphology (3); +Geology 455: Basic Environmental Geology; Geology 485: Principles of Hydrogeology (3).

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

2. Science
This concentration should develop the knowledge and understanding of the sciences appropriate to the needs of the teacher in grades K-8. The curricular requirement that the student take courses in both biological science (anthropology, biochemistry and cellular and molecular biology, botany, ecology and evolutionary biology, microbiology, psychology) and in physical science (chemistry, geography, geology, physics) is designed to fulfill the state competencies for I General Science and Physical Science and II Biology.

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. One sequence from among the following: 
   1. Astronomy 161-162 (4,4) or Geography 131-132 (4,4) or Geology 101-102 (4,4) or Physics 221-222 Elements of Physics (4,4).

Core courses (14 hours):
1. Biology 240: 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.

A. Biological Sciences
   +Anthropology 210: Principles of Biological Anthropology (3); +Anthropology 464: Principles of Zoology (3); +Anthropology 480: Human Osteology (3); +Anthropology 490: Primate Evolution (3); +Anthropology 495: Human Paleontology (3); Anthropology 496: Biology of Human Variability (3); +Biochemistry and Cellular Molecular Biology 230: Human
Physiology (5); 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); Of the following three Botany courses, choose only one: 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 (2); Ecology and Evolutionary Biology 484: Conservation Biology (3); Geography 435: Biogeography (3); Geography 436: Water Resources (3); Geography 439: Plant Geography of North America (3); Geology 320: Paleobiology (3); Geology 420: Paleocology (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 prerequisite to this major. See catalog for details.

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 (3,4)
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 300: Introduction to Abstract Mathematics (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: Biology of Human Variability (3); Biochemistry and Cellular and Molecular Biology 310: Physiological Chemistry (4); Biochemistry and Cellular and Molecular Biology 330: Mechanisms of Development (3); Of the following three Botany courses, you may choose only one: 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 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 484: Conservation Biology (3); Geography 435: Biogeography (3); Microbiology 310: Introduction to Microbiology (3); +Microbiology 470: Microbial Ecology (3); +Psychology 410: Sensory Processes and Perception (3); +Psychology 461: Physiological Psychology (3)

B. Physical Sciences (6-8 hours)
Chemistry 350-360-369: Organic Chemistry and Lab (3,3,2); Ecology and Evolutionary Biology 446: Introduction to Oceanography (4); Geography 334: Meteorology (3); Geography 433: The Land-Surface System (3); Geography 434: Climatology (3); Geography 436: Water Resources (3); +Geography 441: Geography of Resources (3); Geology 310: Mineralogy (3); Geology 320: Paleobiology (3); Geology 330: Igneous and Metamorphic Petrology (3); Geology 340: Stratigraphy and Sedimentation (3); Geology 370: Structural Geology (4); Geology 381: Minerals and Energy Resources: Geologic Constraints and Environmental Impacts (3); Geology 420: Paleocology (4)

C. Mathematics (6 hours)
Mathematics 400: History of Mathematics (3); Mathematics 401: Mathematics and Microcomputers (3); Math 405: Models in Biology (3); Mathematics 460: Geometry (3)

Total (core + areas A, B, and C) = 35 hours

PRE-VETERINARY MEDICINE PROGRAM

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

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.
Freshman

<table>
<thead>
<tr>
<th>Hours</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101-102</td>
<td>6</td>
</tr>
<tr>
<td>Chemistry 120-130</td>
<td>8</td>
</tr>
<tr>
<td>Biology 130-140</td>
<td>8</td>
</tr>
<tr>
<td>Basic Skills (B) Foreign Language (Intermediate Level Sequence)</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
</tr>
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</table>

Sophomore

<table>
<thead>
<tr>
<th>Hours</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 240</td>
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</tr>
<tr>
<td>Chemistry 350, 360, 369</td>
<td>8</td>
</tr>
<tr>
<td>Physics 221-222</td>
<td>8</td>
</tr>
<tr>
<td>Divisional Distribution: Non-U.S. History</td>
<td>6</td>
</tr>
<tr>
<td>Divisional Distribution: Social Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

Junior

<table>
<thead>
<tr>
<th>Hours</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry and Cellular and Molecular Biology 410 or 402</td>
<td>4-6</td>
</tr>
<tr>
<td>Divisional Distribution: Social Science</td>
<td>3</td>
</tr>
<tr>
<td>Divisional Distribution: Humanities</td>
<td>6</td>
</tr>
<tr>
<td>Upper Level Distribution (A) U.S. Studies, or (B) Foreign Studies, or (C) Capstone Experience</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>7-12</td>
</tr>
</tbody>
</table>

Total: 93 hours

Senior

<table>
<thead>
<tr>
<th>Hours</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completion of major program and B. A./B.S. requirements or completion of one year at UT</td>
<td></td>
</tr>
<tr>
<td>College of Veterinary Medicine</td>
<td></td>
</tr>
</tbody>
</table>

Total: 124 minimum hours

1. Or equivalent honors courses.
2. Remaining hours may be selected from the three lists under the Humanities requirement; not more than 3 credits may be taken from List C: Arts.
3. Students who have had considerable background in biology in high school (e.g., two years of biology or an unusually good one-year course) and have completed general chemistry may be eligible to go directly into Biology 140, 240. Consult the coordinator of the biology program for more information. Such students must include at least eight hours in biological science in their electives to satisfy the requirement for admission to the medical technology course of study.
4. Progression into the Anthropology major is based on performance in the three prerequisite courses: 110, 120 and 130. Students must maintain a grade point average of at least 3.0 for the three introductory courses, with none of the three grades below a C. Upon satisfactory completion of the prerequisites, the student may apply for progression into the Anthropology major by: (1) completing a formal application for progression in the Anthropology Department and (2) including with that application an academic history demonstrating satisfactory completion of the prerequisite requirements. The Undergraduate Committee of the Anthropology Department will meet regularly to determine the status of these applications. Upon approval to the major, a department advisor will be assigned in consultation with the student.

AFRICAN AND AFRICAN-AMERICAN STUDIES

See Interdisciplinary Programs.

AMERICAN STUDIES

See Interdisciplinary Programs.

ANTHROPOLOGY

Professors:

- W.M. Bass (Emeritus, Alumni Distinguished Service Professor), Ph.D. Pennsylvania; C.H. Faulkner (Distinguished Professor), Ph.D. Indiana; Faye V. Harrison, Ph.D. Stanford; B.J. Howell, Ph.D. Kentucky; R.L. Jantz, Ph.D. Kansas; W.E. Klippel, Ph.D. Missouri; L. Konigsberg, Ph.D. Northwestern; M.H. Logan, Ph.D. Pennsylvania State; P.W. Parmalee (Emeritus), Ph.D. Texas A&M; G.F. Schroedl, Ph.D. Washington State; J.F. Simek (Distinguished Professor), Ph.D. SUNY-Binghamton; M.C. Wheeler (Emerita), Ph.D. Yale.

Associate Professors:

- I. Harrison (Emeritus), Ph.D. Syracuse; A. Kramer (Head), Ph.D. Michigan; M. Marks, Ph.D. Tennessee.

Assistant Professor:

- M. Ferreira, Ph.D. California (Berkeley); H.N. Qirko, Ph.D. Tennessee.

Research Associate Professor:


Research Assistant Professor and Curator:

- S. Frankenbark, Ph.D. Northwestern.

Research Assistant Professor:

- M. Elam, Ph.D. Missouri.

Instructor and Coordinator, Forensic Center

- L.M. Jantz, Ph.D. Tennessee.

Adjunct Professor:

- R. Dunnell, Ph.D. Yale.

Adjunct Associate Professor:

- L.P. Sullivan, Ph.D. Wisconsin-Milwaukee.

PROGRESSION STANDARDS

Progression into the Anthropology major is based on performance in the three prerequisite courses: 110, 120 and 130. Students must maintain a grade point average of at least 3.0 for the three introductory courses, with none of the three grades below a C. Upon satisfactory completion of the prerequisites, the student may apply for progression into the Anthropology major by: (1) completing a formal application for progression in the Anthropology Department and (2) including with that application an academic history demonstrating satisfactory completion of the prerequisite requirements. The Undergraduate Committee of the Anthropology Department will meet regularly to determine the status of these applications. Upon approval to the major, a department advisor will be assigned in consultation with the student.

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

1. One course from categories (a), (b), (c), and (d); and two courses from category (e).
   - (a) archaeological method and theory: 361, 362, 440, 464
   - (b) archaeological area: 360, 363, 462, 463
   - (c) cultural area: 310, 311, 312, 313, 315, 316, 319, 320
   - (d) cultural method and theory: 410, 411, 412, 413, 414, 416, 431
   - (e) biological anthropology: 480, 485, 490, 494, 495, 496

2. Remaining hours may be selected from any upper division Anthropology courses.

Students with senior standing are encouraged to attend appropriate 500 level courses (with permission of the instructor of the course and approval of the Department Head) for any portion of (1) or (2) above. The Department of Anthropology offers honors seminars for juniors and seniors, leading to an honors major. The honors major consists of 357 and 457 plus 24 additional hours of upper division course work in Anthropology distributed as specified above for the major.
To enroll in Anthropology 357, the student must have fulfilled the progression requirements necessary to declare a major in Anthropology and must have an overall GPA of 3.2. To enroll and receive honors credit for Anthropology 457, the student must complete 357 with a grade of B or better, maintain a 3.5 GPA in all Anthropology courses, and maintain a 3.2 GPA overall.

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

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

ART

Professors:

Associate Professors:

Assistant Professors:

PROGRESSION REQUIREMENTS

The following core courses must be completed before students can progress into the program as art majors and before further art classes may be taken:*  
Art 101  
Art 103  
Art History 162, 172, 173, or 183 (choose one)  
*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 candidate 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 majors or graduate work 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 above courses will prepare 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 scheduling. 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 42 credit hours, 300 level or above, must be earned prior to graduation. Students may be accepted into advanced media concentrations in Ceramics, Drawing, Painting, Media Arts, Printmaking, Sculpture, and Watercolor after passing the appropriate portfolio course.

Basic Requirements  
(All Concentrations Except Media Arts)

<table>
<thead>
<tr>
<th>Class</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
</tr>
<tr>
<td>Art 101,103</td>
<td>4</td>
</tr>
<tr>
<td>Art 205</td>
<td>4</td>
</tr>
<tr>
<td>Art History 172 and 173 or 162 or 183</td>
<td>9</td>
</tr>
<tr>
<td>Art History Electives</td>
<td></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/Watercolor, Art Printmaking, and Art Sculpture</td>
<td>18</td>
</tr>
</tbody>
</table>

Sub-Total: 43

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 may apply 13 hours in undergraduate Art Education courses  

Sub-Total: 18

General Curriculum

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

Sub-Total: 34

Concentrations

Ceramics:
Ceramics 222                                           | 3 |
Ceramics Portfolio Review 320 (S/NC)                  |     |
Ceramics 321, 322 (prerequisite for all 400 level)    |     |
Ceramics courses                                       | 6 |
Ceramics 421, 422, 429, 493, or 494                   |     |
Ceramics 424, 429                                      |     |
Drawing 212                                           |     |
Sculpture 241, 242, 243, 245, 246                     |     |
Printmaking 262, 263                                   |     |
Painting 213, 214, 215                                 |     |
Arrowmont Ceramics 420                                 | 9 |

Sub-Total: 32

Drawing:
Art Drawing 212 (may be repeated)                     | 3 |
Art Drawing Portfolio Review 312 (S/NC)                |     |
Art Drawing 311 (for two semesters)                   | 8 |
Art Drawing 411 (for two semesters)                   | 12 |
Approved Concentration Electives:                     |     |
Art Drawing 219/419 (maximum 6 hours)                 |     |
Art Painting 213, 214, 215, 216                        |     |
Art Media Arts 231                                     |     |
Art Printmaking 262, 263                               |     |

Sub-Total: 32

Painting:
Painting 214 (may be repeated)                         | 3 |
Art Painting Portfolio Review 314 (S/NC)               |     |
Painting 313 (for two semesters)                       | 8 |
Painting 413 (for two semesters)                       | 12 |
Approved Concentration Electives:                     |     |
Art Painting 219/419 (maximum 6 hours)                |     |
Art Painting 213, 214, 215, 216                        |     |
Art Media Arts 231                                     |     |
Art Drawing 212                                        | 9 |

Sub-Total: 32

Printmaking:
Printmaking 200 level course                          | 3 |
Art Printmaking Portfolio Review 360 (S/NC)           |     |
Printmaking 300 and 400 level courses                 | 20 |
Approved Concentration Electives:                     |     |
Art Drawing 212 (maximum 6 hours)                     |     |
Art Drawing 311                                       |     |
Art Drawing 419 (maximum 6 hours)                     |     |
Art Media Arts 231                                     |     |
Art Printmaking 469 (3 hours)                          | 9 |

Sub-Total: 32
Sculpture:
Sculpture 200 level course ........................................ 3
Art Sculpture Portfolio Review 340 (S/NC) 
Prerequisite to 300 and 400 level courses ................... 20
Approved Concentration Electives:
(9 hours from the following)
Art Drawing 212 (maximum 6 hours) 
Art Drawing 311 
Art Drawing 419 (maximum 6 hours) 
Art Media Arts 231 
Art Printmaking 469 (3 hours) ................................... 9

Sub-Total: 32

Watercolor:
Painting 216 (may be repeated) .................................. 3
Art Painting Portfolio Review 316 (S/NC) 
Art Painting 315 (for two semesters) ......................... 8
Art Painting 415 (for two semesters) ......................... 12
Approved Concentration Electives:
(9 hours from the following)
Art Drawing 219/419 (maximum 6 hours) 
Art Painting 213, 214 
Art Media Arts 231 
Art Drawing 212 .................................................. 9

Sub-Total: 32

Art Media 331 (Photography II) or Art Media 341 
Art Media 436 (Video Art) .......................................... 6
Art Media 433 (History of Modern Art and Film) .......... 3
Art History 403 (History of Photography) .................. 3

Sub-Total: 39

Art Painting 415 (for two semesters) ......................... 12
Art Painting 315 (for two semesters) ......................... 8
Art Painting Portfolio Review 316 (S/NC) 
Painting 216 (may be repeated) .................................. 3

Sub-Total: 46

Art History courses numbered 200 and above ............ 15

Sub-Total: 32

Art 295 ................................................................. 3
Art History 172 and 173 and 183 or 162 .................... 9
Art History Electives .............................................. 6
Media Arts 231, 235, 236 ........................................... 9
One course from each of the following 5 areas: Art 
Drawing, Art Painting, Watercolor, Art Ceramics, 
Art Sculpture, Art Printmaking ................................ 15

Sub-Total: 40

Art Graphic Design 251, 252, 351, 352, 356, 451, 
354, 396; Art 491, 492; 
Advertising 250, 350, 490 ....................................... 12

Sub-Total: 12

Art 101, 103 ....................................................... 4
Art 295 ................................................................. 3
Art History 172 and 173 and 183 or 162 .................... 9
Art History Electives .............................................. 6
Media Arts 231, 235, 236 ........................................... 9
One course from each of the following 5 areas: Art 
Drawing, Art Painting, Watercolor, Art Ceramics, 
Art Sculpture, Art Printmaking ................................ 15

Sub-Total: 40

Art Graphic Design 251, 252, 351, 352, 356, 451, 
354, 396; Art 491, 492; 
Advertising 250, 350, 490 ....................................... 12

Sub-Total: 12

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

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 
art education. Up to 13 credit hours of Art 
Education courses may be used as studio 
electives. Students who wish to pursue licensu-
ture to teach should be aware that General 
Curriculum requirements are different. For 
details, see Art Education listings in the Col-
lege 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, 
advertising, three-dimensional design, 
publications, or electronic media. 

Transfer students are advised that a mini-
imum of 21 hours in studio courses, and 6 up-
derivation hours in art history must be 
earned at UT. Transfer students who expect 
to enroll in 300 (junior level) courses must 
earn at least 15 hours of Art History 
electives, and 300 level or above, must be 
earned prior to graduation. 

A minimum of 127 credit hours are re-
quired 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 prereq-
usite to all upper division courses.

Students must complete 351 and 356 with 
grade of C or better by the end of the sec-
ond semester following successful 
completes 350. If 351 and 356 are not successful 
completed in this time, the student must resubmit a portfolio to 
rein to enter the junior program. 
Resubmission of the portfolio must occur dur-
ing the scheduled spring portfolio review.

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

Art 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

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

Sub-Total: 33

Total Semester Hours: 127 hours

B.A. MAJORS IN ART HISTORY

Prerequisite: Art History 172, 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, 451; 
Renaissance/Baroque—Art History 442, 452, 453; 
American—Art History 471, 472, 473, 483, 19th/ 
20th Century—Art History 403, 472, 474, 475, 
476, Art Media Arts 433; 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

Total: 39 hours

Undergraduate work in Art History is 
emphasized by knowledge of at least one for-
foreign language and by additional studio art 
experience. Graduate work normally requires 
reading knowledge of German, French, and 
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

Sub-Total: 12

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. require-
ments, the following are required for minors in 
the School of Art:

MINOR IN ART HISTORY

Prerequisite: Art History 172, 173, 183 (or their Honors equivalents) ............ 9
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-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, alumnae clubs, and individual members.

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

ASIAN STUDIES
See Interdisciplinary Programs.

ASTRONOMY
See Physics and Astronomy.

AUDIOLOGY AND SPEECH PATHOLOGY

Professors:
Lisa Schwarz (Head), Ph.D. Oregon; C.W. Asp, Ph.D. Ohio State; P.J. Casey, Ph.D. Iowa; S. Handel (Adjunct), Ph.D. Johns Hopkins; 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; M. Hedrick, Ph.D. Vanderbilt; P. Payne, Ph.D. Tennessee; L. Swanson, Ph.D. Purdue; J. Theilin, Ph.D. Iowa.

Assistant Professors:
M. L. Erickson, Ph.D. Southern California; P. Flipsen, Ph.D. Wisconsin; A. Harkrider, Ph.D. Texas; R.A. Monia (Emerita), Ph.D. Wisconsin; Maria Munoz, Ph.D. Texas.

Instructor:
T.R. Singletary, M.S. Colorado State.

Research Professor:
A. K. Zaidy, Ph.D. Polish Academy of Sciences, Warsaw, Poland.

Research Coordinator:
Polly Alfonso, M.A. Southwest Missouri State.

Clinical Director:
Ann Michael, Ph.D. Vanderbilt

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 department as early as possible in their programs. Suggested elective courses for students not majoring in Audiology and Speech Pathology include 300, 302, 303, 305, 306, 320, and 473.

The W.A. Major in Speech Pathology consists of Audiology and Speech Pathology 300, 302, 303, 305, 306, 320, 433, 435, 461, 473, and 494; and one course from the following courses: Linguistics 200, 371, 372, 411, 471, or 472.


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 minimum cumulative GPA of 2.7 (or 3.0 in the last 30 hours of enrollments), a minimum of “C” in all courses taken within the department, successful completion of 433, and a minimum GPA of 2.75 within the major.

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

Additional requirements for professional certification include course work in audiology/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; Distinguished Professor), Ph.D. Pennsylvania; M.A. Handel (Distinguished Professor), Ph.D. Kansas State; B. Hochman (Emeritus), Ph.D. California; E.E. Howell, Ph.D. Leigh; K.W. Jeon, Ph.D. London; J.G. Joshi, Ph.D. Poona; D.C. Joy (Distinguished Scientist), Ph.D. Oxford (UK); J.R. Kennedy, Ph.D. Iowa; J.W. Koontz, Ph.D. Kentucky; J.N. Niles (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; E.H. Serpersu, Ph.D. Hateceppe; C.A. Shivers (Emeritus), Ph.D. Michigan State; H.G. Welch (Emeritus), Ph.D. Florida; G.L. Whitson (Emeritus), Ph.D. Iowa; W.D. Wicks, Ph.D. Harvard.

Assistant Professors:
B. Bruce, Ph.D. California (Berkeley); R. Ganguly, Ph.D. Nebraska; J.C. Hall, Ph.D. Illinois; C.B. Peterson, Ph.D. LSU; R.A. Prosser, Ph.D. Illinois.

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

Research Professors:

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 Cellular and Molecular Biology.

Basic Faculty:
C.C. Amundsen, Ph.D. Ecology and Evolutionary Biology; R.M. Bagby, Ph.D. Biochemistry and Cellular and Molecular Biology; J.M. Becker, Ph.D. Microbiology; C.R.B. Boake, Ph.D. Ecology and Evolutionary Biology; D. Brian, Ph.D. Microbiology; B. Bruce, Ph.D. Biochemistry and Cellular and Molecular Biology; D.L. Bunting, Ph.D. Ecology and Evolutionary Biology; M. Butler, Ph.D. Ecology and Evolutionary Biology; J.D. Caponetti, Ph.D. Botany; P.B. Cox, Ph.D. Biology; C. Dealwis, Ph.D. Biochemistry and Cellular and Molecular Biology; H. Delcourt, Ph.D. Ecology and Evolutionary Biology; P. Delcourt, Ph.D. Ecology and Evolutionary Biology; J. Drake, Ph.D. Ecology and Evolutionary Biology; A.C.
A. Prerequisites to All Concentrations
1. Chemistry 120 or 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 101. 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, 410, 411, 420-429, 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 Chemistry 130-140-240-250. The honors option also requires a substantive research project conducted 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 courses that satisfy the Ecology and Evolutionary Biology 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 Ecology and Evolutionary Biology, and at least one course from each of the following four categories:

Evolution
EEB 460 Evolution
Ecology
EEB 446 Oceanography
EEB 470 Aquatic Ecology
EEB 484 Conservation Biology
EEB 435 Wildlife and 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

The remaining hours for the EEB concentration can include any of the remaining EEB courses on these lists, other Upper Division Ecology and Evolutionary Biology 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 Ecology and Evolutionary Biology or from the Department of Ecology and Evolutionary Biology’s webpage. 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: Ecology and Evolutionary Biology 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 EEB 400, Undergraduate Research, during the junior and senior years; (d) pass EEB 407, 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)
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; C.E. Barnes, Ph.D. Stanford; J.E. Bartmess, Ph.D. Northwestern; J.E. Bloom (Emeritus), Ph.D. Manchester (England); W.E. Bull (Emeritus), Ph.D. Illinois; J. Q. Chambers, Ph.D. Kansas; R.N. Compton, Ph.D. Tennessee; K.D. Cook, Ph.D. Wisconsin; J.F. Eastham (Emeritus), Ph.D. California (Berkeley); C.S. Feigere, Ph.D. Colorado; W.H. Fletcher (Emeritus), Ph.D. Minnesota; F.A. Grimm (Emeritus), Ph.D. Cornell; G.A. Guiochon (Distinguished Scientist, Science Alliance Center of Excellence), Ph.D. Université de Paris (France); G.W. Kabalka (Robert H. Cole Professor, Alumni Distinguished Service Professor), Ph.D. Purdue; D.C. Kleinfeelter (Emeritus), Ph.D. Princeton; J.D. Kovac, Ph.D. Yale; J.D. Larese, Ph.D. Wesleyan; M.H. Lietzke (Emeritus), Ph.D. Wisconsin; L.J. Magid, Ph.D. Tennesse; R.M. Magid, Ph.D. Yale; J.W. Mays (Distinguished Scientist, Science Alliance Center of Excellence), Ph.D. Akron; R.M. Pagni, Ph.D. Wisconsin; J.R. Petersen (Emeritus), Ph.D. California (Berkeley); G.K. Schweitzer (Alumni Distinguished Service Professor), Ph.D. Illinois; W.A. Van Hook, Ph.D. Johns Hopkins; E.L. Wehry (Emeritus), Ph.D. Purdue; T.F. Williams (Alumni Distinguished Service Professor), Ph.D. London (England); C. Woods, III, Ph.D. North Carolina State; B. Wunderlich (Distinguished Scientist, Emeritus), Ph.D. Northwestern; Z.B. Xue, Ph.D. UCLA.

Associate Professors:
M.D. Dadmun, Ph.D. Massachusetts; R.J. Hinde, Ph.D. Chicago; C.A. Lane (Emeritus), Ph.D. California (Berkeley); F.M. Schell, Ph.D. Indiana.

Assistant Professors:

Bachelor of Science in Chemistry

Students who desire to major in chemistry may select from either of two courses of study: Bachelor of Science or Bachelor of Science in Chemistry. Only the latter program is approved by the Committee on Professional Training of the American Chemical Society. It is designed to train students to go directly into positions in the chemical industry or to enter graduate study leading to positions in research and college teaching. A student in the B.S. in Chemistry program should, at the earliest opportunity, ask the Arts and Sciences Advising Center for assignment of a faculty advisor in the Department of Chemistry. For further information, contact the Head of the Department of Chemistry, 552 Buehler Hall. For information concerning the Cooperative Program in chemistry, see description of the B.S. program below.

CURRICULUM REQUIREMENTS

<table>
<thead>
<tr>
<th>Hours</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>120-130 or (preferably) 128-138</td>
</tr>
<tr>
<td>Mathematics 141-142</td>
<td>8</td>
</tr>
<tr>
<td>English Composition</td>
<td>6</td>
</tr>
</tbody>
</table>

1. Foreign Language (intermediate level sequence) .................................................. 6-10
2. Distribution ........................................................................................................... 3
3. Sophomore | 120-130 or 128-138 and Mathematics 141-142 or 151-152. Corequisite to the major is Physics 221-222, 135-136, or 137-38.

The major consists of Chemistry 240, 310, 319, 350-360, 369, 471-481 or 473-483, 479 and 10 hours of additional work in chemistry at the 200-level or above that includes at least one laboratory course or lecture/labora-
obtained in advance. For example, a student and may not be used as prerequisites for any literacy and consumer knowledge of students chemistry courses. Chemistry 150 and 160 emphasize organic and biochemistry, and chemistry majors are strongly urged to take and which serve as prerequisite for upper-

requirements of a year of General Chemistry Placement in General Chemistry least one semester in advance of the begin-
ning. A student receiving a passing grade below B in 128 will complete the year’s work by taking 130. Beginning students who have had high school chemistry and who have had additional experience (e.g. summer institute study, special research projects, home laboratory) are invited to apply during the summer to the head of the department for permission to take a proficiency examination in one or more semesters of general chemistry. If a satisfactory grade is made on the examination, credit will be allowed for the semester (or course) for which the exam was taken. The Department of Chemistry gives credit in general chemistry to students who present satisfactory scores on the Chemistry Advanced Placement Exa-

mination. To students who present satisfactory scores, high school chemistry grade, and, if necessary, performance on a placement ex-
amination to be given during the first class meeting. A student receiving a passing grade in 128 will complete the year’s work by taking 130. Beginning students who have had high school chemistry and who have had additional experience (e.g. summer institute study, special research projects, home laboratory) are invited to apply during the summer to the head of the department for permission to take a proficiency examination in one or more semesters of general chemistry. If a satisfactory grade is made on the examination, credit will be allowed for the semester (or course) for which the exam was taken. The Department of Chemistry gives credit in general chemistry to students who present satisfactory scores on the Chemistry Advanced Placement Examination.

CHINESE

See Interdisciplinary Programs (Modern Foreign Languages and Literatures).

CLASSICS

Professors:
D.W. Tandy (Head; Distinguished Professor of Humanities), Ph.D. Yale; C.C. Gesell (Lindsay Young Professor), Ph.D. North Carolina (Chapel Hill); S.D. Martin, Ph.D. Michigan; H.C. Rutledge (Emeritus), Ph.D. Ohio State.

Associate Professors:
C.P. Craig, Ph.D. North Carolina (Chapel Hill); J.E. Shelton, Ph.D. Vanderbilt.

Assistant Professor:
E.H. Sutherland, Ph.D. U.C. Berkeley.

Adjunct Professor:
D.W. Jones, Ph.D. Chicago.

Adjunct Assistant Professors:
I.P. Desselle, Ph.D. Arizona; M. Kulikowski, Ph.D. Toronto.

The B.A. Major Concentration in Classical Civilization consists of 27 hours. The required core of the major is Classics 201 plus any 6 hours drawn from the following: Classics 221-222 (3-3), Classics 232-233 (3-3), Classics 253 (3). The remaining 15 hours may be drawn from Greek 261-264, Latin 251-252, or any Classics course numbered above 300, or from History 310, History 311, History 366, or Philosophy 320. Students are encouraged to satisfy the foreign language re-

quirement with Greek or Latin.

A Minor Track in Classical Civilization consists of 18 hours including Classics 201 plus any 6 hours drawn from the following: Classics 221-222; 232-233; 253. The remaining 9 hours may be drawn from Greek 261-264, Latin 251-252, or any Classics course numbered 300 or above, or from History 310, 311, 366, or Philosophy 320.

The B.A. Major Concentration in Greek consists of 27 hours including 18 hours of Greek language courses numbered above 200 plus 9 hours to be drawn from the following: any courses in the Classics Department (other than Greek 121-122, Classics 201, Classics 273) or History 310-311.

The Greek Minor consists of 18 hours including 12 hours of Greek language courses numbered above 200, and 6 hours chosen from Classics 221-222, 331, 334.

Placement Examination Students who transfer to UT from other colleges and students who enroll 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. Thomason, 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.
**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 were:

1. Has completed at least the following three courses at UTK with an average of 2.0 or better: CS 102, 140, and 160 for UT students. Transfer students’ course 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, 203 Claxton Complex.

**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. Hallman (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. Echterman, Ph.D. Kansas; D.A. Ettner, Ph.D. Minnesota; N.B. Greenberg, Ph.D. Detroit; L.J. Gross, Ph.D. Cornell; W.F. Harris, Ill, Ph.D. Tennessee; J.F. McCormick (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 (Gore 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. Guidry, Ph.D. Moscow State; M. Pigliucci, Ph.D. Connecticut.

**Assistant Professors:**

M. Butler, Ph.D. Washington (St. Louis); P. Kover, Ph.D. Indiana; J. Weltzin, Ph.D. Arizona; J. Wolf, Ph.D. Kenucky (Lexington).

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 of the College of Business Administration.

The program in economics combines a broad liberal education with the rigorous study of current issues of the day such as employment, inflation, poverty, wealth, and the benefits and costs of economic growth. Courses offered in the Department of Economics 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, and (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 should lead to 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. Bratton (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. Ensor, Ph.D. Indiana; R.J. Finneran (John C. Hodges Professor), Ph.D. North Carolina; J.H. Fisher (John C. Hodges Professor Emeritus), Ph.D. Pennsylvania; S.B. Garmer, 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. Keesee, Ph.D. Texas; R.M. Kelly (Young Professor), Ph.D. Duke; B.J. Leggett (Humanities Professor), Ph.D. Florida; I. Leki, Ph.D. Illinois; M.A. Lofaro, Ph.D. Maryland; C. Maland (Young Professor), 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 (Emeritus), 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. Trahern, Jr. (Alumni Distinguished Professor), Ph.D. Princeton; T.V. Wheeler (Emeritus), Ph.D. North Carolina; J.M. White (Young Professor Emeritus), M.A. Cambridge; A. Wier (Distinguished Teaching Chair), M.F.A. Bowling Green; N. Wright (Emerita), Ph.D. Yale; J.P. Zomchick, Ph.D. Columbia.

**Associate Professors:**


**Assistant Professors:**

M.G. Anderson, Ph.D. Vanderbilt; A.C. Billone, Ph.D. Princeton; J.L. Black, Ph.D. Toronto; T.F. Haddock, Ph.D. Vanderbilt; H.A. Hirschfeld, Ph.D. Duke; M. Knight, M.F.A. Virginia; M.J. Reif, Ph.D. Kansas.
Instructors: G. Albrightson, Ph.D. North Dakota; E. Bailey, Central Arkansas; L. Berry, M.A. Tennessee; J. Burton, Ph.D. SUNY; P.A. Tschantz, M.A. New Mexico State.

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

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

Creative Writing (1) a two-course sequence in creative writing; (2) three other writing courses; (3) four courses in literature, two of which must be before 1800; and at least one of those before 1800; (4) one course in language, theory, cultural, ethnic, or gender studies.

Literature (1) English 376 (Colloquium in Literature), to be taken, if possible, near the beginning of the student’s major program; (2) four courses in literature before 1800, including at least one before 1800; (3) one course in American literature; (4) one course in twentieth-century literature; (5) one course in language, theory, cultural, ethnic, or gender studies; (6) two or more courses from any of the department’s offerings, including criticism, film, folklore, language, literature, rhetoric, and writing. Courses may count in more than one category.

Rhetoric and Writing (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 1800, 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, 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.

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 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 496. 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 (chosen from 360, 460, 462, 465, or any special topics course offered in technical communication); (2) one course in expository writing, argumentative writing, language, rhetoric, or another technical communication course (chosen from 355, 360, 371, 372, 455, 460, 462, 466, 470, 471, 472, 484, 485, 496, and 46); (3) one other 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 have not completed 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 a graduate program in English. 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 (Berkeley); C.P. Harden, Ph.D. Colorado (Boulder); S.P. Horn, Ph.D. California (Berkeley); S.R. Jumper (Emeritus), Ph.D. Tennessee; R.G. Long (Emeritus), Ph.D. Northwestern; L.M. Pulsipher, Ph.D. Southern Illinois; B.A. Raiston (Head), Ph.D. Northwestern; J.B. Rehder, Ph.D. Louisiana State; T.H. Schmudder (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; M.M. Gripshover (Adjunct), Ph.D. Pennsylvania; C. Liu (Adjunct), Ph.D. Tennessee; R. McKeown (Adjunct), Ph.D. Oregon; Kenneth Orvis, Ph.D. California (Berkeley); S.L. Shaw, Ph.D. Ohio State.


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

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.

GEOLOGICAL 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. Wisconsin; R.D. Hatcher (UT Knoxville/ORNLI Distinguished Scientist), Ph.D. Tennessee; O.C. Kopp (Emeritus), Ph.D. Columbia; T.C. Labotka, Ph.D. Caltech; M. McKay, Ph.D. Yale; H.Y. Swarbrick (Distinguished Professor of Science), Ph.D. Harvard; K.C. Misra, Ph.D. Western Ontario; C.I. Mora (Carden Professor), Ph.D. Wisconsin; L.A. Taylor, Ph.D. Lehigh; K.R. Walker (Emeritus), Ph.D. Yale.

Associate Professors: G. M. Clark, Ph.D. Pennsylvania State; L.D. McKay, Ph.D. Waterloo; R.T. Williams, Ph.D. VPI.

Assistant Professors: L.C. Kah, Ph.D. Harvard; Edmund Perfect, Ph.D. Cornell; 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 135-136 and Biology 130-140.

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 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, 450, 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, 530, 532 or Environmental Engineering 535; Environmental and Soil Sciences 210; and Speech Communication 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.

Honors Students who have completed five upper division courses in the major and have an overall GPA of 3.0 may elect to participate in an enrichment program involving research in the geological sciences. Research, in the form of an approved senior thesis, will be accomplished by successful completion of 3 semester hours beyond the normal requirements of Geology 491, 492, or 493 under the direction of a faculty member. The results of the research must be formally presented to the Department’s Seminar (Geology 595), the Tennessee Academy of Science, or other acceptable professional organization. Also, an approved written copy of the thesis must be submitted to the Department of Geological Sciences. A GPA of 3.0 must be maintained throughout matriculation. Interested students should consult their advisor for details about participation.

GERMAN
See Modern Foreign Languages and Literatures.

GREEK
See Classics.

HEBREW
See Religious Studies.

HISTORY
Professors: P.H. Bergeron (Emeritus), Ph.D. Vanderbilt; D.P. Brummet, Ph.D. Chicago; E.V. Chmielowski (Emeritus), Ph.D. Harvard; W. Cutler, Ph.D. Texas; W.W. Farris, Ph.D. Harvard; J.R. Finger (Emeritus), Ph.D. Washington; A.G. Haas, Ph.D. Chicago; Y.P. Hao (Emeritus), Ph.D. Harvard; R.W. Haskins (Emeritus), Ph.D. California (Berkeley); M.M. Klein (Alumni Distinguished Service Professor, Lindsay Young Professor and Emeritus), Ph.D. Columbia; A. Mayhew (Interim Vice Provost), Ph.D. Texas; H. Moser, Ph.D. Wisconsin; R.J. Norrell (Bermadette Schmitt Professor), Ph.D. Virginia; L.A. Ratner (Emeritus), Ph.D. Cornell; J.G. Utley (Emeritus), Ph.D. Illinois; W.B. Wheeler, Ph.D. Virginia.

Associate Professors: T.A. Dicon (Head), Ph.D. Wisconsin; J. Appier, Ph.D. California (Riverside); 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; O. Bradley, Ph.D. E.T. Burman, Ph.D. Toronto; C.G. Fleming, Ph.D. Duke; L. Glover, Ph.D. Kentucky; C.A. Higgs, Ph.D. Yale; V.G. Lulievicius, Ph.D. Pennsylvania; G.K. Piehler, Ph.D. Rutgers; P.J. Pinckney, Ph.D. Vanderbilt.

Assistant Professors: K. Brosnan, Ph.D. Chicago; J.P. Dessel, Ph.D. Arizona; H. DeWeerd, Ph.D. Harvard; M. Kulkowski, Ph.D. Toronto; L. Liu, Ph.D. California (San Diego); J. Sahadeo, Ph.D. Illinois; G. White, Ph.D. Temple.

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

B.A. Major 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. 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 the sequences. AP (with a score of 4 or 5) or transfer credit is acceptable to fulfill this requirement. History 241-242 (or honors equivalent) or 261-262 are prerequisites to a major which consists of 30 hours, including (1) 6 hours of History 221-222 (or the honors equivalent); and (2) 24 upper-division hours, including: (a) one course in European history; (b) one course in United States history; (c) two courses in the history of Latin America, Asia, or Africa, at least one of which must be in Asia or Africa; and (d) one additional course dealing predominantly with a period prior to 1750.

Minor History 241-242 or 261-262 (or honors equivalents) are prerequisites to a minor which consists of 15 hours of courses numbered 200 or above, including at least: (1) 6 hours in United States history; and (2) 9 upper-division hours.

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

Honors Program The Department of History offers honors sections of the Western Civilization and United States history survey 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. An honors major requires successful completion of 307 and a senior thesis (407-408) with a grade of B or above. Altogether the honors majors consist of 33 hours, including 30 hours as outlined in the B.A. Major above, plus 307. All jurors who are declared history majors with an overall GPA of at least 3.0 are invited to join the Junior-Senior Honors Program. Students interested in honors work at any level should consult the department’s honors coordinator.

INTERDISCIPLINARY PROGRAMS

Director: Don Richard Cox College of Arts and Sciences

In keeping with the philosophy that integration of knowledge is as important as proficiency in a given field, the College of Arts and Sciences has combined the resources of several departments to offer a series of interdisciplinary majors and minors. These programs are as follows: African and African-American Studies, American Studies, Asian Studies, Cinema Studies, Comparative Literature, Environmental Studies, Judaic Studies, Latin American Studies, Legal Studies, Linguistics, Medieval Studies, Urban Studies, and Women’s Studies. See individual program descriptions below for the major and/or minor requirements.

AFRICAN AND AFRICAN-AMERICAN STUDIES
Chair: John O. Hodges, Religious Studies.

Associate Professor: Asafa Jalata, Sociology, Ph.D. State University of New York (Binghamton); George White, Jr., Ph.D. Temple.

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

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

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**

Chair: Miriam L. Levering, Religious Studies.

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 in either 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 Studies. Certain courses in Philosophy, Theatre, and Interdisciplinary Programs may be substituted with the approval of the chairperson of the Comparative Literature Program. Minors in comparative literature are strongly encouraged to continue study of a foreign language beyond the minimum requirement.

**ENVIRONMENTAL STUDIES**

Chair: Michael McKinney, Geological Sciences.

The Major Concentration in Environmental Studies provides sound scientific, socioeconomic, and philosophical background for understanding the earth’s environment with an opportunity to minor in one of the many environmentally related curricula offered by the various colleges within the University.

Prerequisites to a B.A. Major in Environmental Studies are: Biology 130-140 or Botany 110-120; Chemistry 120-130; Geology 101; Geography 131; Mathematics 123-125 or 141-142 or 151-152; Economics 201; and Biology 250.

The Major Concentration consists of a core and a specialty. The core includes Geology 202 plus: a) 12 hours from: History 346; Sociology 360; Philosophy 346; Economics 462; Agriculture and Natural Resources 333; Journalism 451; Geology 490; b) 3 hours from: Geology 455, Geography 433, Geology 436 or Ecology/Evolution 484; c) 3 hours from: Geography 334, Geography 434, or Environmental and Soil Sciences 462. The specialty is satisfied by meeting the course requirements listed for a minor in any one of the environmentally related curricula offered by the various colleges of the University with a grade of C- or better. The specialty will require 15-18 hours as specified by the chosen department. Curricula that would be suited for an Environmental Studies major include, but are not limited to: Biosystems Engineering and Environmental Science, Plant Sciences and Landscape Systems, Wildlife and Fisheries Science, Forestry, Chemistry, Geography, Geology, Biology, Sociology, Economics, Political Science, Communications, or Business Administration.

**JUDAIC STUDIES**

Chair: Gilya Gerda Schmidt, Religious Studies.

The Major Concentration in Judaic Studies offers a course of study that treats Judaism as a historically evolving and culturally specific enterprise. The concentration explores Jewish culture, religion and heritage through literature, philosophy, and history. A multi-disciplinary combination of courses permits critical reflection on topics and issues in a world civilization and cross-cultural context.

A Major Concentration consists of at least 27 hours at the 300 level or above, distributed as follows: (a) Religious Studies 381, History 383, and 12 hours from Religious Studies 311, 312, 320, 385, 386, 405, History 370, 384; (b) 9 hours selected from Art History 425, 431, 475, German 350, History 369, 385, 484, Philosophy 322.

Students should contact the program advisor early in planning a Judaic Studies major.

The Judaic Studies Minor consists of Religious Studies 381, History 370, and 9 hours selected from the Judaic Studies Major Concentration. It is recommended that students minoring in Judaic Studies discuss their program with a member of the Judaic Studies Committee.

**LANGUAGE AND WORLD BUSINESS**

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

**LATIN-AMERICAN STUDIES**

Chair: Michael Handelsman, Modern Foreign Languages and Literatures.

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 386, 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
Students should contact program advisors early in planning a Legal Studies major. It is strongly recommended that Sociology 455 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.

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 history and culturally. The program is designed to provide education about law and legal culture. It should not be viewed as a preferred avenue for admission to law school.

Specific objectives of the program are to:
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 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 Psychology 430, 442, (3) perspectives - 3 hours from English 490, Political Science 330, Philosophy 392; (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.

Note: In addition to the above listed courses for the concentration and the minor there are occasional offerings in the Honor College or in other departments which may be substituted for certain requirements subject to written approval of the Linguistics Committee and the Office of the Dean.

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 flexibility permitting the student to use 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) or other 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 425-426; Linguistics 423; and (b) 9 hours of the following, selected in consultation with the Linguistics Committee: Anthropology 413, 496; Audiology and Speech Pathology 320, 579; Educational Curriculum and Instruction 457; Special Education and Rehabilitation 522; English/Linguistics 472, 474, 475, 476, 485, 490, 508-509, 680; French 421, 422, 429, 521-522; German 435-436, 571-572; Holistic Teaching/Learning 504; Language, Communication, and Humanities Education 455, 587; Linguistics 400; Philosophy 310, 428; Psychology 400, 450, 480, 482, 543; Spanish 421, 422, 531-532; Speech Communication 300, 320; Theatre 426. Other hours may be substituted in (b) by approval of the Linguistics Committee.

A Minor in Linguistics shall consist of 15 credit hours composed of (1) either English 471 (3) or 3 hours from section (b) of the major, selected in consultation with the Linguistics Committee; and (2) 15 hours as follows: Audiology and Speech Pathology 305 (3); English 371 (3) or 372 (3); French, German, Russian or Spanish 425 (3) or 426 (3); and Linguistics 423 (3).

Note: In addition to the above listed courses for the concentration and the minor there are occasional offerings in the Honor College or in other departments 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) the arts: history, architecture, music, and speech and theatre. Courses should either be from the same pattern (e.g., the history of English in 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 History: 300-1100 (3); History 313 Medieval History: 1100-1400 (3); History 330 History of England to 1668 (3); History 334 History of Germany to 1815 (3); History 369 History of the Middle East (3); History 474 Studies in Medieval and Early European History (3); Philosophy 322 Medieval Philosophy (3); and Political Science 475 Latin 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 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 History 425 Early Christian and Byzantine Art to
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 107, 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, 321, 462, 471, 472; Geography 310, 411, 412, 449; 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, or 3 above. For more information contact the chairperson of Urban Studies.

WOMEN’S STUDIES

Chair: Cheryl Brown Travis, Psychology.

Women’s Studies encourages inquiry into the full range of the human experience by raising new questions and opening new areas of research concerning women. The discipline enriches the traditional Arts and Sciences curriculum by adding new perspectives on women’s lives and accomplishments.

Women’s Studies can broaden the education of both male and female students by helping them to understand the limitations placed on both sexes by narrowly defined sex roles. Wherever there is a need to understand women and an interest in the new roles they are playing in society, Women’s Studies can enhance a student’s career preparation and opportunities.

The Major Concentration in Women’s Studies consists of 30 semester hours including one of the Images of Women in Literature courses (either 210 or 215). Women in Society (220), Emergence of the Modern American Woman (310), at least three hours of Independent Study (493), and at least one course from each of the three major areas: Women’s Heritage (383, 432, 453, 466, 483), Contemporary Issues (375, 382, 410, 425, 434), and Literature and the Arts (330, 332, 422). At least one must be from any of these areas. Students are encouraged to take at least nine hours in one of these areas.

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

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.

MATHEMATICS

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; J.A. Carnuth (Emeritus), Ph.D. Florida State; C.E. Clark (Emeritus), Ph.D. Louisiana State; R.I. Daverman, Ph.D. Wisconsin; D.E. Dobbs, Ph.D. Cornell; J. Dydk, Ph.D. Warsaw (Poland); H. Frandsen (Emeritus), Ph.D. Moscow State; L.S. Hucb, Ph.D. Florida State; K. Johansson, Ph.D. Bielefeld, Germany; G. Samuei Jordan, Ph.D. Wisconsin; K. Johannson, Ph.D. Tennessee; Mahoney, M.Ed. Maryland; Rita Reagan, M.M. Tennessee.

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. Ordinary 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 four of the core components of mathematics, should be regarded as minimal preparation for careers in mathematics or closely related mathematical fields. Students with special interests and talents are encouraged to take as many other mathematics courses as their schedules permit.

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

Major Requirements consists of 37 semester hours of mathematics courses including(1) Math 231, 241 (or 247), 251 (257), 300, and (2) eight additional courses at the 300-400 level (except 399, 499, 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, 455-65 (457-58)
Analysis: 341, 445-46 (447-48)
Numerical Analysis: 371 or CS 370, 471-2

2. At least one course must be taken from each of the following categories:
Group 1–Planning and Policy: Planning 446, Urban Studies 321, 402

Group 2–Physical Issues and Design: Urban Studies 323, 441, 464

Group 3–Planning and Policy: Planning 446, Urban Studies 321, 402

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

WOMEN’S STUDIES

Chair: Cheryl Brown Travis, Psychology.

Women’s Studies encourages inquiry into the full range of the human experience by raising new questions and opening new areas of research concerning women. The discipline enriches the traditional Arts and Sciences curriculum by adding new perspectives on women’s lives and accomplishments.

Women’s Studies can broaden the education of both male and female students by helping them to understand the limitations placed on both sexes by narrowly defined sex roles. Wherever there is a need to understand women and an interest in the new roles they are playing in society, Women’s Studies can enhance a student’s career preparation and opportunities.

The Major Concentration in Women’s Studies consists of 30 semester hours including one of the Images of Women in Literature courses (either 210 or 215). Women in Society (220), Emergence of the Modern American Woman (310), at least three hours of Independent Study (493), and at least one course from each of the three major areas: Women’s Heritage (383, 432, 453, 466, 483), Contemporary Issues (375, 382, 410, 425, 434), and Literature and the Arts (330, 332, 422). At least one must be from any of these areas. Students are encouraged to take at least nine hours in one of these areas.

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

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.
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**

**Hours Credit**

- **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
  - Portuguese or Spanish (beginning level, preferably French, German, or Russian) 6-12

- **Junior**
  - Mathematics 332, 351, 341, 371 ........................................ 12
  - Humanities Distribution Requirement ........................................ 6
  - Social Science Distribution Requirement ........................................ 3
  - Electives ............................................................... 12

- **Senior**
  - Mathematics 445-446, 460, 421 (or 431) ........................................ 12
  - Upper Level Distribution Requirement ........................................ 6
  - Electives (may include Math 400 or 411) ........................................ 6
  - Electives (must include at least 7 upper division hours) ......................... 11

Total: 124 minimum hours

**PREPARATION FOR GRADUATE SCHOOL**

**Hours Credit**

- **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
  - Portuguese or Spanish (beginning level, preferably French, German, or Russian) 6-12

- **Junior**
  - Mathematics 332 (or 423), 431 (or 421), 371, 435 (or 461) .......................... 12
  - Humanities Distribution Requirement ........................................ 6
  - Social Science Distribution Requirement ......................................... 3
  - Electives ............................................................... 12

- **Senior**
  - Mathematics 445-446 (or 447-48) and 455-56 (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**

**Hours Credit**

- **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
  - Portuguese or Spanish (beginning level, preferably French, German, or Russian) 6-12
  - Lab Science Distribution Requirement ..................................... 8

- **Junior**
  - Mathematics 332, 351, 341, 371 ........................................ 12
  - Humanities Distribution Requirement ........................................ 6
  - Social Science Distribution Requirement ......................................... 3
  - Electives ............................................................... 12

- **Senior**
  - Mathematics 445-446 (or 447-48) and 455-56 (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

**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 those 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 facility 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 of Medicine.

The faculty with the College of Veterinary Medicine participates in the graduate program leading to M.S. and Ph.D. degrees in Comparative and Experimental Medicine. Other advanced degree students can do thesis research in the department by arrangement with other life science departments at the University.

**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; B. Creel, Ph.D. California; S. DiMaria, Ph.D. Wisconsin; J.C. Elliott (Emeritus), M.A. Illinois; J.E. Fallan (Emeritus), Ph.D. Indiana; M.H. Handelsman, Ph.D. Florida; W.H. Heflin (Emeritus), Jr., 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. Rizenzon (Emeritus), Ph.D. Connecticut; Oscar Rivera-Rodas, Ph.D. California; J.B. Romeiser, Ph.D. Vanderbilt; A.M. Vazquez-Bigl (Emeritus), Ph.D. Minnesota; A.H. Wallace (Emeritus), Ph.D. North Carolina; Yulan Washburn (Emeritus), Ph.D. North Carolina; D.J. Young, Ph.D. Texas.

**Associate Professors:**

- M. Beauvois, Ph.D. Texas; S. Blackwell, Ph.D. Indiana; F. Brzio-Skow, Ph.D. Washington; L. Essif Ph.D. Brown; P. Hoeyng, Ph.D. Wisconsin; C. Holmlund, Ph.D. Wisconsin.
G. Kaplan, Ph.D. Pennsylvania; J. LaCure, Ph.D. Indiana; N.A. Lauckner (Emeritus); Ph.D. Wisconsin; D. Lee, Ph.D. Stanford; C. Nakuma, Ph.D. Universite de Paris (Sorbonne); S. Ohnesorg, Ph.D. McGill; N. Peruka, Ph.D. Bryn Mawr; E. Silva-Filho, Ph.D. North Carolina; Assistant Professors: A. Ayo, Ph.D. Arizona; O. Berwald, Ph.D. North Carolina; C. Cano, Ph.D. Pennsylvania State; N. Cruz-Camara, Ph.D. SUNY (Buffalo); C. Cox (Emerita), M.A. Tennessee; E. Johnson, Ph.D. Tennessee; H. Maxim, Ph.D. Texas; M. McAlpin, Ph.D. Columbia; J. Williams, Ph.D. Ohio State; P. Wilson (Emerita), M.A. Tufts.

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. Language concentration students 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 at least two literature courses numbered above 300, including 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 8 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 32 hours of German in courses numbered above 300, including completion of German 477 or 478 with a grade of A or B+. To be admitted to the Honors Program, students must present a cumulative grade point average in German major courses of at least 3.5 and have an overall GPA of not less than 3.2. Students should apply for admission to the program as early as possible in the fall 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 equivalent to 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 language 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, 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 221, 222, and Russian courses numbered 300 and above; and 6 or more credits chosen from Geography 375, History 340-341, and Political Science 459.

The Spanish Major consists of 30 hours in courses numbered 323 and above in one of two concentrations. All majors must have the following courses: 323, 330 and 331. Literature concentration: (1) 323, 333, 334; (2) four additional 400-level courses, at least two of which must be in literature. Hispanic Studies concentration: (1) one course from 332, 333 or 334 2) 6 additional courses in language, literature or culture, at least 4 of which must be from the 400 level. Students whose level of proficiency in Spanish is superior as defined by the ACTFL Proficiency Guidelines may substitute a 400-level course or 323 with departmental consent. 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, 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 Asian Languages 490 or 491, and 9 hours of courses from the following: Asian Studies 102, History 362, 363, 364, 476, Political Science 454, Religious Studies 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 above 300.

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, 3 hours of Asian Languages 490 or 491, and 9 hours of courses from the following: Asian Studies 102 or 471 (if related to Japan), History 365, Japanese 313 or 314, Religious Studies 383.

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 credit hours in Russian 221, 222, 371, 372, 430, 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 the 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 beyond the prerequisite courses specified next under “C. PRACTICAL EXPERIENCE.” The following are required.

Accounting 201-202 (5 hours), Business Administration 201 (4 hours), Finance 301 (3 hours), Marketing 300 (3 hours), and Management 300 (3 hours). Students then choose two from the following recommended list: Business 301, Management 310, 440, Economics 321, Business Administration 371. Other business courses numbered 300 or higher may be used to fulfill this requirement with the consent of the student’s faculty advisor.

International Retail Merchandising Students will take 25 hours. The following are required: Accounting 201, 202, Marketing 300, 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 Agricultural Economics students will complete 24 hours. The following are required: Accounting 201, Agricultural Economics 210, 320, 342, 350, 420, 430, and three credit hours from the following: Retail and Consumer Sciences 350, 410, 411, 412, 415, 450, or 493.

3. International Agricultural Economics students will complete 24 hours. The following are required: Accounting 201, Agricultural Economics 210, 320, 342, 350, 420, 430, and three credit hours from the following: Retail and Consumer Sciences 350, 410, 411, 412, 415, 450, or 493.

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 3 hours (included in major requirements).

Additionally, Language and World Business students must consult their Program Director for advising as early as possible in the planning of their four years of study. Students should consult with their Program Director for advising as early as possible in the planning of their four years of study. Students should consult with their Program Director for advising as early as possible in the planning of their four years of study.
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 as a prerequisite to the minor. The minor shall consist of at least 18 hours of German courses numbered above 300, which normally include German 301-302 and 12 additional hours of courses numbered above 300 (excluding 331-332 and courses in English translation).

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; W.W. Hawthorne, Ph.D. Cincinnati; E. Keathley, Ph.D. SUNY

The French 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.
ENSEMBLES

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

APPLIED MUSIC

Applied study is classified as 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 semester in which they are student teaching. The requirements for this course are to attend scheduled concerts, recitals, master classes, repertoire, and solo classes, and to perform at least once each semester as partial fulfillment of applied music credit requirements.

Applied Music Fees: $80 per semester for half-hour lesson (1 credit hour) $160 per semester for hour lesson (2-4 credit hours). Computer registration and applied music fee payment must be verified in the School of Music office no later than the end of the second day of classes of the fall, and spring semesters and the first day of the summer terms in order to be accepted for applied music study.

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

KEYBOARD SKILLS PROFICIENCY EXAMINATION

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

RECITAL ATTENDANCE POLICY

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

BACHELOR OF MUSIC 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 and minor 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

Prerequisites: Music Theory 110, 120 (6); Music Theory 130, 140 (2); Music Performance 100 Level (2). Courses toward the major: Music Theory 210, 220 (6); Music Theory 230, 240 (2); Music History 200 (3); Music History 210, 220 (6); Music Performance 200 level or above (four semester minimum) (8); Music General 200 (4 semester minimum) (0); Music Ensemble (4); Music Theory 310 (3) 3 hours selected from: Music History 350, 380, 390. 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 requirements as outlined in the catalog section “Requirements for Degrees” in the general section of the College of Arts and Sciences catalog entry.

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 Theory 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 Theory 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)

| Hours Credit |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Freshman         | English 101, 102 | 6               | Music Theory 110, 120 | 6               | Music Theory 130, 140 | 2               | Music Performance (major instrument) | 2.2             | Music Ensemble | 1.1             | Music General 200 | 0.0             | Music Education 230 | 1               |
| Sophomore        | Music Theory 210, 220 | 6               | Music Theory 230, 240 | 2               | Music Performance (major instrument) | 2.2             | Music Ensemble | 1.1             | Music General 200 | 0.0             | Music History 200 | 3               |
| Senior           | Music History 211 | 1               | Music Education 220 | 1               | Music Education 221 | 1               | Music Ensemble | 1.1             | Educational Psychology 210 | 3               |
|                  | Social Science | 3               | Math 115 | 3               |                               |                 |                               |                 |                               |                 |                               |                 |

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

| Hours Credit |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Freshman         | English 101, 102 | 6               | Music Theory 110, 120 | 6               | Music Theory 130, 140 | 2               | Music Performance (major instrument) | 2.2             | Music Ensemble | 1.1             | Music General 200 | 0.0             | Music Education 230 | 1               |
| Sophomore        | Music Theory 210, 220 | 6               | Music Theory 230, 240 | 2               | Music Performance (major instrument) | 2.2             | Music Ensemble | 1.1             | Music General 200 | 0.0             | Music History 200 | 3               |
| Senior           | Music History 211 | 1               | Music Education 220 | 1               | Music Education 221 | 1               | Music Ensemble | 1.1             | Educational Psychology 210 | 3               |
|                  | Social Science | 3               | Math 115 | 3               |                               |                 |                               |                 |                               |                 |                               |                 |

Total: 124 hours plus 24 graduate hours

B.M. Curriculum in Music Education—Wind/Percussion Emphasis (5-year option)
### Senior
- Music Performance (major instrument) ........................................... 2
- Music General 200 ............................................................................ 0
- Music History 200 ............................................................................. 3
- Music Keyboard 110, 120 ................................................................. 1,1
- Foreign Language .............................................................................. 6

### Sophomore
- Music Theory 210, 220 ................................................................. 6
- Music Theory 230, 240 ................................................................. 2
- Music Performance (major instrument) ........................................... 2,2
- Music General 200 ............................................................................ 0
- Music History 210, 220 ................................................................. 6
- Music Education 210 ................................................................. 1
- Music Education 220 ................................................................. 1
- Music Education 240 ................................................................. 1
- Music Ensemble ............................................................................. 1,1
- Chamber Ensemble .......................................................................... 1,1
- Educational Psychology 210 .......................................................... 3
- Math 115 ......................................................................................... 3

### Junior
- Music Theory 310 ............................................................................. 3
- Music Theory 320 ............................................................................. 3
- Music Performance (major instrument) ........................................... 2,2
- Music General 200 ............................................................................ 0
- Music Education 210 ................................................................. 1
- Music Education 310, 320 ............................................................. 5
- Music Education 340 ........................................................................ 3
- Music Education 221 ........................................................................ 1
- Music Education 240 ........................................................................ 3
- Music History 200 ............................................................................. 3
- Music History 380 ............................................................................. 3
- Music Ensemble ............................................................................. 2,1
- Educational Psychology 210 .......................................................... 3
- Math 115 ......................................................................................... 5
- Non-US History .............................................................................. 3

### Total: 124 hours plus 24 graduate hours
Sophomore Year
Music Theory 210, 220 .............................................. 6
Music Theory 230, 240.............................................. 2
Music Performance (keyboard) ................................. 2,2
Music Performance (voice) ........................................ 2,2
Music General 200 .................................................. 0,0
Music Ensemble ...................................................... 1,1
Music History 210, 220 ............................................. 6
Music Education 200 ................................................. 1
Music Education 260 ................................................ 1
Music Education 201 ............................................... 1
Educational Psychology 210 ..................................... 3
 música Educación Natural Science ........................................ 3
Math 115 ................................................................. 3
Non-US History ...................................................... 3
Junior Year
Music Theory 310 ..................................................... 2
Music Theory 320 ..................................................... 2
Music Performance (keyboard) ................................. 2,2
Music General 200 .................................................. 0,0
Music Ensemble ...................................................... 1,1
Music Education 250 ................................................. 1
Music Education 210 or 211 ..................................... 1
Music Education 310, 320 ......................................... 3,2
Music Education 330 ................................................ 3
Music Education 350 ................................................ 3
Music Education 360 ................................................ 3
Music Ensemble 399, 399 ......................................... 1,1
Instructional Technology, Curriculum and Evaluation 486 ...................................................... 3
Senior Year
Music Performance (keyboard) .................................. 2
Music General 200 .................................................. 1
Music Ensemble ...................................................... 1,1
Music Education 250 ................................................. 1
Music Education 210 or 211 ..................................... 1
Music Education 310, 320 ......................................... 3,2
Music Education 330 ................................................ 3
Music Education 350 ................................................ 3
Music Education 420 ................................................ 3
Music Education 430 ................................................ 3
Music Performance 450 .......................................... 2
Music History 575 .................................................... 12
Music Education 430 ................................................ 3
Music Education 420 ................................................ 3
Music Education 200 ................................................. 1
Music Ensemble ...................................................... 1,1
Music History 200 .................................................... 3
Social Science ........................................................... 3
*Optional Full Recital with approval of major area

Total: 134 hours

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

Freshman
English 101, 102 ..................................................... 6
Music Theory 110, 120 .......................................... 6
Music Theory 130, 140 .......................................... 6
Music Performance 180 ......................................... 2
Music Ensemble ...................................................... 1,1
Music History 210 .................................................... 1
Music History 200 .................................................... 3
Music General 200 .................................................. 0,0
Music General 301* ................................................ 0
Music Performance 490 ......................................... 4,4
Music Education 300 .............................................. 2
Music Education 200 ................................................. 1
Music Ensemble ...................................................... 1,1
Music History 210 .................................................... 1
Music History 200 .................................................... 3
Social Science ........................................................... 3
Non-US History ...................................................... 3

Sophomore
Music Theory 210, 220 ............................................. 6
Music Theory 230, 240.............................................. 2
Music Performance (voice) ........................................ 2,2
Music Performance (voice) ........................................ 2,2
Music Keyboard 210, 220 ....................................... 1,1
Music General 200 .................................................. 0,0
Music Ensemble ...................................................... 1,1
Music History 210 .................................................... 1
Music Education 200 ................................................. 1
Music Education 260 ................................................. 1
Music Education 201 ............................................... 1
Music Education 200 ................................................. 1
Music History 210, 220 ............................................. 6
Music Education 260 ................................................. 1
Music Education 201 ............................................... 1
Music Education 200 ................................................. 1
Educational Psychology 210 ..................................... 3
Music History 200 .................................................... 3
Junior Year
Music Theory 310 ..................................................... 3
Music Theory 320 ..................................................... 3
Music Performance (voice) ........................................ 2,2
Music Performance (voice) ........................................ 2,2
Music General 200 .................................................. 0,0
Music Ensemble ...................................................... 1,1
Music Education 250 ................................................. 2
Music Education 210 or 211 ..................................... 1
Music Education 310, 320 ......................................... 3,2
Music History 380 .................................................... 3
Music Voice 450 ...................................................... 2
Instructional Technology, Curriculum and Evaluation 486 ...................................................... 3
Senior Year
Music Performance (voice) ........................................ 2
Music General 200 .................................................. 1
Music Ensemble ...................................................... 1
Music General 301* ................................................ 0
Music Theory 450 .................................................... 2
Music History 380 .................................................... 3
Non-US History ...................................................... 3
Social Sciences ......................................................... 3

Total: 126 hours plus 24 graduate hours

B.M. Curriculum in Organ

Freshman
English 101, 102 ..................................................... 6
Music Theory 110, 120 .......................................... 6
Music Theory 130, 140 .......................................... 6
Music History 200 .................................................... 3
Music Ensemble ...................................................... 1,1
Foreign Language .................................................. 6
Music General 200 .................................................. 0,0
Non-US History ...................................................... 6

Sophomore
Music Theory 210, 220 ............................................. 6
Music Theory 230, 240.............................................. 2
Music Performance (voice) ........................................ 2,2
Music Performance (voice) ........................................ 2,2
Music Keyboard 210, 220 ....................................... 1,1
Music General 200 .................................................. 0,0
Music Ensemble ...................................................... 1,1
Music History 210 .................................................... 1
Music Education 200 ................................................. 1
Music Education 260 ................................................. 1
Music Education 201 ............................................... 1
Educational Psychology 210 ..................................... 3
Music History 200 .................................................... 3
Senior Year
Music Theory 310 ..................................................... 3
Music Theory 320 ..................................................... 3
Music Performance (voice) ........................................ 2
Music Performance (voice) ........................................ 2
Music General 200 .................................................. 0,0
Music Ensemble ...................................................... 1,1
Music History 380 .................................................... 3
Music Voice 450 ...................................................... 2
Instructional Technology, Curriculum and Evaluation 486 ...................................................... 3
Senior Year
Music Performance (voice) ........................................ 2
Music General 200 .................................................. 1
Music Ensemble ...................................................... 1
Music General 301* ................................................ 0
Music Theory 450 .................................................... 2
Music History 380 .................................................... 3
Non-US History ...................................................... 3
Social Sciences ......................................................... 3
Non-US History ...................................................... 3

Total: 135 hours

B.M. Curriculum in Piano

Freshman
English 101, 102 ..................................................... 6
Music Theory 110, 120 .......................................... 6
Music Theory 130, 140 .......................................... 6
Music Performance 180 ......................................... 4,4
Music Ensemble ...................................................... 1,1
Music General 200 .................................................. 0,0
Music History 200 .................................................... 3
Non-US History ...................................................... 6

Sophomore
Music Theory 210, 220 ............................................. 6
Music Theory 230, 240.............................................. 2
Music Performance (voice) ........................................ 2,2
Music Performance (voice) ........................................ 2,2
Music Keyboard 210, 220 ....................................... 1,1
Music General 200 .................................................. 0,0
Music Ensemble ...................................................... 1,1
Music History 210 .................................................... 1
Music Education 200 ................................................. 1
Music Education 260 ................................................. 1
Music Education 201 ............................................... 1
Music Education 200 ................................................. 1
Educational Psychology 210 ..................................... 3
Music History 200 .................................................... 3
Junior Year
Music Theory 310 ..................................................... 3
Music Theory 320 ..................................................... 3
Music Performance (voice) ........................................ 2,2
Music Performance (voice) ........................................ 2,2
Music General 200 .................................................. 0,0
Music Ensemble ...................................................... 1,1
Music Education 250 ................................................. 2
Music Education 210 or 211 ..................................... 1
Music Education 310, 320 ......................................... 3,2
Music History 380 .................................................... 3
Music Voice 450 ...................................................... 2
Instructional Technology, Curriculum and Evaluation 486 ...................................................... 3
Senior Year
Music Performance (voice) ........................................ 2
Music General 200 .................................................. 1
Music Ensemble ...................................................... 1
Music General 301* ................................................ 0
Music Theory 450 .................................................... 2
Music History 380 .................................................... 3
Non-US History ...................................................... 3
Social Sciences ......................................................... 3

Total: 129 hours
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<td>Music Keyboard 340</td>
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<td>Music Performance 480</td>
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<td></td>
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**B.M. Curriculum in Piano Pedagogy**

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<tbody>
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**Junior**

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<td>Social Science</td>
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<td>Music Keyboard 360, 370</td>
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**Senior**

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**B.M. Curriculum in Strings**

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**Sophomore**

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<td>Music Theory 310, 320</td>
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<td>Music Instrument 340, 350</td>
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**Junior**

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<tbody>
<tr>
<td>Music History 380</td>
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<td>Music Theory 310</td>
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<td>Music Jazz 310, 320</td>
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<td>Music History 200</td>
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<td>Music Ensemble 399</td>
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<tr>
<td>Social Science</td>
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<td>Electives</td>
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**Senior**

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<tbody>
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<td>Music Jazz 420</td>
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<tr>
<td>Music Technology 290 or 340</td>
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<td>Music General 200</td>
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<td>Music General 301</td>
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<tr>
<td>Music General 310</td>
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<td>Music Keyboard 110, 120</td>
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<td>Arts and Sciences Electives</td>
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**Sophomore**

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<th>Course</th>
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<tr>
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<td>Music Technology 390</td>
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**Junior Year**

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<tr>
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<td>Music Education 310</td>
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<td>Arts and Sciences Electives</td>
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**Senior Year**

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<tr>
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**Total: 129 hours**
**Areas of Study**
Option A: Composition: Music Performance 394, Music Performance 494, Lecture Recital Music General 411
Option B: Electronic Composition: Music Performance 395, Music Performance 495, Lecture Recital Music General 411
Option C: Music Theory: Music Performance 394 or 395, Independent Study in Music Theory 493, Music History Elective (300 level and above).

**Humanities–Arts (Non-Music), Literature, Philosophical Perspectives, Interdisciplinary Studies**

### B.M. Curriculum in Voice

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**Total: 127 hours**

### ORGANIZATIONAL PSYCHOLOGY PROGRAM

See Graduate School.

#### PHILOSOPHY

Professors:
- J.R. Hardie (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. Nolt, Ph.D. Ohio State; B.C. Postow, Ph.D. Yale; D. Van de Vate (Emeritus), Ph.D. Yale.

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

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

**Major Prerequisite**
- Three hours of logic, normally 130 or 135. Requirements: 24 hours of courses numbered 200 or above, including three hours of ethics, normally 240 or 440, and six hours in the history of philosophy, three in ancient, normally 320, and three in modern, normally 324. Majors are required to discuss their programs with a member of the Philosophy faculty.

**PHYSICS AND ASTRONOMY**

Professors:
- S.P. Sorensen (Head), Ph.D. Copenhagen (Denmark); F.E. Barnes (Collaborating Scientist), Ph.D. California; C.R. Bingham, Ph.D. Texas; W.E. Blass, Ph.D. Michigan State; M.J. Breinig, Ph.D. Oregon; W.W. Bugg, Ph.D. Tennessee; T.A. Callicott, 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. Kamynchik, 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.D. 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 (Liaison), Cornell; M.R. Strayer, Ph.D. Massachusetts Institute of Technology; J.R. Thompson, Ph.D. Duke; B.F.L. Ward, Ph.D. Princeton; H.H. Weitlinger, Ph.D. Groningen.

**Associate Professors:**
- P. Dai, Ph.D. Missouri; L. Davis (UTSI), Ph.D. Auckland; T.L. Ferrell, Ph.D. Clemson; J.C. Levin, Ph.D. Oregon; D.G. Mandrus, Ph.D. SUNY (Stony Brook); C. Parigger (UTSI), Ph.D. New Zealand; K.F. Read (Collaborating Scientist), Ph.D. Cornell; S.Y. Shieh, Ph.D. Maryland; G. Siopsis, Ph.D. California Institute of Technology.

**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 Professor:**
- P.E. Datskos, 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 area of their choice.

**Prerequisites of the Major**
- One of the following sequences is required: 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

Professors: Patricia K. Freeland (Head), Ph.D. Wisconsin; Robert B. Cunningham, Ph.D. Indiana; Michael M. Gant, Ph.D. Michigan State; Michael R. Fitzgerald, Ph.D. Oklahoma; Robert Gorman, Ph.D. New York; William Lyons, Ph.D. Oklahoma; Hyrum Plaa, Ph.D. Utah; John M. Scheb, Ph.D. Florida; Thomas A. Smith, Ph.D. Ohio State; Ots H. Stephens, Jr. (Alumni Distinguished Service Professor), Ph.D. Johns Hopkins; Thomas D. Ungs (Emeritus), Ph.D. Iowa.

Associate Professors: David H. Folz, Ph.D. Tennessee; Janet Kelly, Ph.D. Wayne State; Anthony J. Nownes, Ph.D. Kansas; David J. Houston, Ph.D. SUNY-Binghamton; Robert L. Peterson, Ph.D. Yale; Lillian E. Richardson, Ph.D. Texas; Yang Zhong, Ph.D. Kentucky.

Assistant Professors: Mary Caprioli, Ph.D. Connecticut; Martin Carcieri, Ph.D. California (Santa Barbara); Daniel Lipinski, Ph.D. Duke; Donna Van Cott, Ph.D. Georgetown.

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

- Comparative Government and Politics 350, 361, 452, 454, 455, 459, 461, 463.
- International Relations 365, 366, 470, 471, and 472.
- Political Theory 300, 374, 475 and 476.

Minor Prerequisites to the minor 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 required 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.

### PSYCHOLOGY

Professors: James E. Lawler (Head), Ph.D. North Carolina; G.N. Alban (Distinguished Professor), Ph.D. Chicago; 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. Oklahoma State University; K.A. Lawler, 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. Pollio (Alumni Distinguished Service Professor), Ph.D. Michigan; F. Samejima, Ph.D. Kejo (Japan); R.A. Saudargas, Ph.D. Florida State; R.S. Shadler (Emeritus), Ph.D. Tennessee; E.D. Sandstrom, Ph.D. C.B. Travis, Ph.D. California (Davis); R.G. Wahler, Ph.D. Washington; J.A. Wiberley (Emeritus), Ph.D. Syracuse.

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

Assistant Professor: Kristina Gordon, Ph.D. University of North Carolina.

Major Prerequisites are: one year of biology (science 110 or equivalent), 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 295 or Psychology 395 (prerequisites to Psychology 395 are Psychology 385 or Statistics 201 or Math 115); (2) Two 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 may be used in this major.

Continuation in the Psychology Major requires maintenance of a GPA of 2.00. Students placed on Academic Review will be informed in writing that they are on probation and their records will be reviewed. Students who continue on Academic Review will be dropped from the major.

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 on the basis of the review of the candidate’s application and interview by the Psychology Honors Faculty, not based on 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 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.

### RELIGIOUS STUDIES

Professors: L. Fitzgerald (Interim Head), Ph.D. Chicago; F.S. Lusby (Emeritus), M.Div. Colgate (Rochester); D.L. Dungan (Emeritus), Th.D. Harvard; R.I.J. Hackett, Ph.D. Aberdeen; W. L. Humphreys (Emeritus), Ph.D. Union; M.L. Levering, Ph.D. Harvard; D.E. Linge (Emeritus), Ph.D. Vanderbilt; R.V. Norman, Jr., Ph.D. Yale; C.H. Reynolds, Ph.D. Harvard; Gilya Schmidt, Ph.D. Pittsburgh.

Associate Professors: R.W. Gwyne, Ph.D. Washington; J.O. Hodges, Ph.D. Chicago; Mark Hulsether, Ph.D. Minnesota.


Major The basic concentration consists of at least 27 hours, all of which must be at the 300 level or above, including one course from each of the first six categories and two courses from category seven, one of which must be at least three hours, which complete this major, shall not include related language courses.

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 minoring in religious studies discuss their program with a member of the department faculty.

RUSSIAN
See Modern Foreign Languages and Literatures.

SOCIOLOGY

Professors: J.A. Black (Emeritus), 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. Jalaia, Ph.D. SUNY-Binghamton; R.E. Jones, Ph.D. Washington State.

Assistant Professors: H. Bui, Ph.D. Michigan State; J. Shefner, Ph.D. California (Davis).

Major Before applying to the Sociology Department for admission to the major a student must complete either Sociology 110 or 120 or their honors equivalent with a grade of C+ or above. Upon granting admission to the major, the department will assign the student an academic advisor who will help the student plan a program of study for the major. The major consists of 24 upper-division hours in sociology and must include 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 Sociology 110 or 120 or their honors equivalent.

Concentration in Criminal Justice All prerequisites and upper-division courses required for general majors are required for this concentration. In addition, the concentration consists of 18 hours of upper-division sociology as follows: 350, 351, 451, 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, 360 and two courses from Sociology 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) Math 411-142 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.

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

THEATRE


Assistant Professor: D. Gabriel, M.F.A. Ohio State; Michael Heil, M.F.A. Texas; B. Speas, M.F.A. Virginia Commonwealth; K. van den Barg, Ph.D. Indiana; K. Yeager, B.F.A. Penn State.

Major Theatre 100 is a prerequisite to a major which consists of 200, 220, 300, 411, 412, 430, 1 from 340, 345, 355, 362, 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, 8 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; B.E. Tonn, Ph.D. Northwestern.

Assistant Professors: E. Jepson, Ph.D. Wisconsin; 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, Dean
David W. Schumann, Associate Dean for Research and Technology
Sarah F. Gardial, Assistant Dean, MBA Program
Patricia D. Postma, Assistant Dean, Center for Executive Education
Mary C. Holcomb, Interim Dean for Undergraduate Business Program
Fred A. Pierce, III, Director, Undergraduate Business Advising and Services Office

It's everywhere. Business. College of Business Administration graduates will one day audit tax returns, practice law, create public policy, start an international business, manage portfolios, or research consumer use of potato chips and aspirin. These graduates will enter today's broad business environment fully prepared by the College of Business Administration's innovative curriculum, renown faculty and programs, and advanced technology.

THE CURRICULUM

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. In May of 2000, the faculty adopted a new curriculum structure for the undergraduate program, and that new structure is being practiced today.

The new curriculum coursework is divided into four components: general education, pre-business core, business core, and major.

The 62 hours of general education focuses on all aspects of human endeavor: written and oral communications; mathematics; social, behavioral, and natural sciences; humanities; foreign language; ethics; and the arts. General education courses span the student's entire academic career.

The pre-business core courses (17 hours) are taken during the student's sophomore year. The pre-business component provides students with the fundamentals of business education, introducing the tools, the environment, and the functions of contemporary business practices.

Building on the pre-business core foundation, the business core consists of integrated contemporary business management modules in supply chain management, demand management, lean operations, information management, the marketplace, and organizational behavior; discipline-specific courses in financial management and business strategy; and coursework on global and legal issues. As business management perspectives change, the topics in the business core will, by design, adapt.

Simultaneously, students are completing the coursework required by their chosen major. The College of Business Administration offers nine majors, including accounting, business studies, economics, finance, logistics and transportation, management, marketing, public administration, and statistics.

Upon the completion of this curriculum, students are awarded a Bachelor of Science in Business Administration.

Business Minor. The College of Business Administration also offers a Business Minor for students pursuing majors in colleges other than the College of Business Administration. Those students must successfully complete the following requirements: Accounting 201-202, Economics 201, Statistics 201, Business Administration 201, Finance 301, Marketing 300, and Management 300. All upper division (300 level or above) coursework must be taken at UT. Students are responsible for meeting the listed prerequisites of any upper division courses taken. [For instance, Math 125 or 141 is a prerequisite to Statistics 201.] Engineering students may substitute Chemical Engineering 301 for Statistics 201.

FACULTY AND PROGRAMS

Students in the College of Business Administration will benefit from the countless faculty recognized for excellence in teaching, research, and public service and from the outstanding programs operating throughout the College. One of the first in the South to be accredited by the Association to Advance Collegiate Schools of Business International, UT's College of Business Administration strives for excellence in all endeavors.

On the undergraduate level, the UT accounting program ranked 20 in the nation and was one of the first three to be accredited at all possible degree levels. The College's logistics and transportation program has been ranked number one in the nation and continues to entice recruiters from local and national businesses. The College has also been a national leader in bringing the concepts of industrial statistics and total quality management methods into the classroom.

At the graduate level, the College of Business Administration offers nine masters programs, including the newly restructured 17-month MBA program, and eight Ph.D. programs.

In addition to challenging students in the classroom, faculty also devote their energies to professional growth and commitment to the community by participating in other College of Business Administration programs, like these listed below.

Global Business Institute. The College of Business Administration's response to the changes brought about by the internationalization of business and higher education, the Global Business Institute serves as the primary catalyst for international awareness and change. By offering internships and career consultation, speakers and event planning, partnership coordination, and program and curricula facilitation, the Global Business Institute helps students, faculty, managers, and public policy makers meet the challenges of a global marketplace.

Center for Executive Education. Providing public and custom executive development programming and four executive MBA programs, the Center for Executive Education works with thousands of individuals and dozens of organizations such as Delta Airlines, Federal Express, and General Electric to broaden and improve the skills of working individuals. The Center for Executive Education is a member of UNICON, an international organization of leading business schools committed to management and executive education.
Center for Business and Economic Research. With three research faculty, numerous staff, and College of Business Administration students, the Center for Business and Economic Research conducts research on national and state economic trends for UT, state agencies, and public and private organizations. By collecting, analyzing, and disseminating economic and demographic data, the Center for Business and Economic Research offers Tennessee businesses the ability to compete and to make sound fiscal and managerial decisions.

TECHNOLOGY

Success in today’s business environment is largely a function of accessibility to, and interpretation of, information. This information provides the knowledge that allows employees and employers to make smart business decisions. Because today’s business world demands that employees be able to effectively use personal computers and diverse software applications, the College of Business Administration intertwines technology with its curriculum at all levels.

In order to take advantage of these unique learning tools, all business students will be required to have their own laptop computers when they start the business core courses. With the new wireless network at UT, a student will be able to use their laptop almost anywhere on campus. Additionally, the College of Business Administration maintains two computer labs containing 50 IBM-compatible computers to support classroom work.

WHERE TO BEGIN

Undergraduate Business Advising and Services. The mission of the Undergraduate Business Advising and Services Office is to provide excellent academic and educational program planning services to undergraduate students in the College of Business Administration. The Undergraduate Business Advising and Services Office, at 52 Glocker, maintains a full-time staff of academic advisors to answer students’ questions concerning majors, curriculum, and elective options. It serves entering freshman, transfers, international students, and students not yet admitted to their major. After being admitted to a major (junior and senior years), students will confer with a departmental advisor regarding career goals and opportunities.

In addition to advising, the Business Advising and Services Office provides individual and group educational program planning, management of class data and enrollment information for the College, undergraduate student recruiting, administration of the undergraduate scholarship program, coordination of progression procedures to business majors, and career counseling.

Progression Standards. Acceptance to the College of Business Administration does not guarantee acceptance to a specific major. Students are admitted to the College as pre-majors and should progress to a major prior to the completion of 75 hours of coursework. Application to a major is a one time only event and occurs as part of the student’s advising session in the Undergraduate Business Advising and Services Office the semester a student completes the following coursework:

- Math 125, 123, or 141-142 (6 or 8 hours);
- Written Communications (3 hours from English 263, 295, 355, or 360);
- Accounting 201-202 (5 hours);
- Economics 201 (4 hours);
- Statistics 201 (3 hours); and
- Business Administration 201 (4 hours).

Students will progress to a major provided they have earned a 2.75 cumulative GPA (3.0 in Accounting) in the coursework listed above. If denied progression, the student may pursue majors in a college other than Business Administration.

Appeals. Students who have been denied progression to a major within the College of Business Administration may appeal to the Undergraduate Admissions Appeals Committee. Information on procedures may be obtained in the Undergraduate Business Advising and Services Office, 52 Glocker.

Transfer Students within UT. Students in other colleges at UT should apply for progression to the College of Business Administration at the earliest possible date—no later than the completion of 75 hours. Only in exceptional cases will application be considered after 75 hours of coursework (at UT or elsewhere) have been attempted. The following minimum requirements must be met in order to be considered for admission to a major:

- The student must have a 2.75 cumulative average in the courses required for progression (3.0 for an accounting major).
- Progression standards are subject to change; current standards are available in the Undergraduate Business Advising and Services Center, Glocker 52.

Transfer Students from Other Institutions. The following minimum requirements must be met in order to be considered for admission to the major:

- Out-of-State community college or four-year institution: The student must have a cumulative GPA of 3.0 or higher. If this standard is not met, the student shall be denied admission to the College.
- In-State community college or four-year institution: The student must have a cumulative GPA of 2.75 or higher. If this standard is not met, the student shall be denied admission to the College.
- Only in exceptional cases will application be considered after 75 hours of coursework have been attempted.

Articulation Agreements. The College of Business has special transfer articulation agreements with some Tennessee community colleges, leading to admission with junior standing in particular majors at UT. Students are awarded an associate’s degree by the specified community college and a baccalaureate degree by UT, provided the student successfully completes all the courses required in a particular program and meets the progression standards. All other academic regulations of the degree-granting institutions must also be satisfied.

Details on specific programs and requirements are available from the Office of Undergraduate Admissions at UT or from the specified community college.

Residency Requirement. Students transferring from other institutions must complete at least nine credit hours in their major and the last 30 hours at UT.

HOW TO PROCEED

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 an advisor in the Undergraduate Business Advising and Services Office at 52 Glocker.

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.

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.

Executive in Residence. A senior-level Executive in Residence course brings 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 regarding domestic and international strategic planning and other hot business topics.

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 considered for scholarships include: academic merit, financial need, and leadership.

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.

Students must complete either the Entering Freshman Academic Scholarship Application or the Returning and Transfer Student Undergraduate Scholarship Application, both of which can be obtained from UT’s Office of Financial Aid and Scholarships, 115 Student Services Building, and submit it by the date printed on the application, with the following information:

1. A current high school transcript and a current college transcript, if the student is a transfer student;
2. ACT or SAT scores.

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

Foreign Study. Several opportunities for study abroad are available to UT College of Business Administration students, such as 1) group programs arranged and supervised by the College’s departments on a full semester or summer term, 2) direct exchange, summer study, and semester programs organized by the Programs Abroad and Transfer Student Undergraduate Scholarship Application, both of which can be obtained from UT’s Office of Financial Aid and Scholarships, 115 Student Services Building, and submit it by the date printed on the application, with the following information:

1. A current high school transcript and a current college transcript, if the student is a transfer student;
2. ACT or SAT scores.

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

Off-Campus Study. Recognizing that learning is not restricted to formal classroom situations, students may earn credit towards graduation for approved off-campus study. It
may include certain types of work experiences or community involvement. Such study may be undertaken only with prior approval of a faculty member and the department granting credit.

Student Organizations. Business students at UT have the opportunity to belong to several honorary and professional societies, often specific to the business environment. For a complete listing of these organizations and the related participation or entrance requirements, please see the College of Business Administration heading under the "Honors and Awards" section of this catalog.

ACCOUNTING AND BUSINESS LAW

Professors:
K.G. Stanga (Head and Andersen Professor of Accounting), Ph.D., Louisiana State, CPA; K.E. Anderson (Distinguished Professor of Taxation), Ph.D., Indiana, CPA; N.E. Dittrich (Emeritus), Ph.D., Ohio State, CPA; B.D. Fisher, L.M. George Washington; J.E. Kiger (Warren L. Slagle Professor of Accounting), Ph.D., Missouri, CPA; J.M. Reeve (Deloitte & Touche Professor), Ph.D., Oklahoma State, CPA; H.R. Roh, 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.P. Murphy, Ph.D., North Carolina, CPA; I.A. Posey (Emeritus), M.S., Tennessee, CPA, CMA; R.L. Townsend, Ph.D., Texas, CPA; J.B. Woodroof, Ph.D., Texas Tech, CPA.

Assistant Professors:
D.D. DeVries, Ph.D., Arizona State, CPA, CISA; 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, CPA; A.R. Bryant, MACC Tennessee, CPA; 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.

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.

UT's Accounting Programs are accredited by AACSB International 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 UT's one-year Master of Accountancy program.

<table>
<thead>
<tr>
<th>Program</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>12</td>
</tr>
<tr>
<td>Sophomore</td>
<td>12</td>
</tr>
</tbody>
</table>

Total: 24 hours

BUSINESS STUDIES

The Business Studies 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, Business Studies 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 Business Studies 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 with specialization in corporate law.

<table>
<thead>
<tr>
<th>Program</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>12</td>
</tr>
<tr>
<td>Sophomore</td>
<td>12</td>
</tr>
</tbody>
</table>

Total: 24 hours

Social Science—Two courses from: Anthropology 110, 120, 130, 320; Geography 101, 102, 320, 323; Political Science 101, 102, 107; Psychology 110, 117, 320, 320, 360; Sociology 110, 117, 120, 320, 370, 415, 459.

Written Communications—One course from: English 283, 285, 355, 360.

Ethics—One course from: Philosophy 242, 242, or 344.

Arts—One course from: Art 191; Art History 172, 173, 132, 232; Music History 110, 120, 330; Speech 280, Theatre 100, 220, 221, 260; Women's Studies 330.

Humanities—One course from: Asian Languages 311, 313, 313, 314; Classics 253, Comparative Literature 202, 203; English 201, 202, 221, 222, 231, 232, 233, 234, 251, 252, 253, 300 Level Honors Literature Courses; Any foreign language courses whose content is literature including foreign literature in English translation; Medieval Studies 261, 262, Religious Studies 312, 313; Women's Studies 210, 215.

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

**ECONOMICS**

**Professors:**
M.N. Murray (Head; Douglas and Brenda Home Professor), Ph.D. Syracuse; R.A. Bohm, Ph.D. Washington (St. Louis); R.L. Bowlby (Emeritus), Ph.D. Texas; S.L. Carroll, Ph.D. Harvard; H.S. Chang, Ph.D. Vanderbilt; D.P. Clark, Ph.D. Michigan State; W.E. Cole (Emeritus), Ph.D. Texas; P. Davidson (Emeritus), Ph.D. Pennsylvania; W.F. Fox (William B. Stokely Distinguished Professor of Business), Ph.D. Ohio State; H.W. Herzog, Jr., Ph.D. Maryland; H.E. Jensen (Emeritus), Ph.D. Texas; F.Y. Lee (Emeritus), Ph.D. Michigan State; J.R. Moore (Emeritus, Alumni Distinguished Service Professor), Ph.D. Cornell; W.C. Neale (Emeritus), Ph.D. London School of Economics; M. Russell (Emeritus), Ph.D. Oklahoma; G.A. Spiva, Jr. (Emeritus), Ph.D. Texas.

**Associate Professor:**
J.A. Gauger, Ph.D. Iowa State.

**Assistant Professors:**
D. Barkoulas, Ph.D. Boston College; D. Fallaschetti, Ph.D. Washington (St. Louis); M. Mahsin, Ph.D. York University (Canada); M. Munkin, Ph.D. Indiana; R. Santore, Ph.D. Ohio State; S. Steway, Ph.D. University of New Mexico.

**Research Assistant Professor:**
D. Bruce, Ph.D. Syracuse University.

The economics major thoroughly examines the economic processes of society, focusing on the production, distribution, and consumption of goods and services. Students in economics may select courses from the fields of economic development, industrial organization, labor economics, international economics, economic history, regional economics, public finance, and quantitative methods. All students majoring in economics take courses in economic theory. In addition, the student gains a knowledge of our culture and society as well as the world of business by completing courses in arts and sciences and in the functional areas of business. Graduates in economics are in demand in many sectors including industry, commerce, finance, trade associations, and government offices at all levels.

**Hours Credit**

**Freshman**

1. English 101, 102 ................................................. 6
2. Math 125-125 or 141-142 ...................................... 6 or 8
3. Intermediate Foreign Language ............................................. 6
4. Natural Science ....................................................... 6
5. Social Science ........................................................ 6
6. Business Administration 101 ............................................. 3

**Sophomore**

1. Accounting 201, 202 ............................................. 5
2. Economics 201 ..................................................... 4
3. Written Communications .............................................. 3
4. Ethics ............................................................................ 3
5. Arts ............................................................................ 3
6. Statistics .................................................................... 3
7. Business Administration 201 ...................................... 3
8. Humanities (Literature) .............................................. 3
9. Oral Communications ................................................. 3
10. Junior Business Administration 331-332 .................... 4
11. Business Administration 341-342 .............................. 4
12. Finance 301 ............................................................. 3
13. Economics 311 .......................................................... 3
14. Economics 315 .......................................................... 3
15. Business Administration 351-352 ............................ 3
16. Business Administration 361 .................................... 3

**Senior Year**

1. Economics Electives .................................................. 6
2. Business Law 301 .................................................... 3
3. Economics 499 .......................................................... 3
4. Management 401 ...................................................... 3
5. Electives ..................................................................... 13-15

Total: 126 hours

**Non-US History—Any two-course sequence from:**
African-American Studies 235-236; Asian Studies 311, 312, 313, 314; Classics 256; Comparative Literature 202, 203; English 201, 202, 221, 222, 231, 232, 233, 251, 252, 253, 281, 333, or 200-level Honors Literature Courses; Any foreign language course whose content is literature including foreign literature in English translation; Medieval Studies 261, 262; Religious Studies 312, 313; Women’s Studies 210, 215.

**Non-US History—Any two-course sequence from:**
American Studies 311, 312, 313, 314; Classics 256; Comparative Literature 202, 203; English 201, 202, 221, 222, 231, 232, 233, 251, 252, 253, 281, 333, or 200-level Honors Literature Courses; Any foreign language course whose content is literature including foreign literature in English translation; Medieval Studies 261, 262; Religious Studies 312, 313; Women’s Studies 210, 215.

**Non-US History—Any two-course sequence from:**
African-American Studies 235-236; Asian Studies 311, 312, 313, 314; Classics 256; Comparative Literature 202, 203; English 201, 202, 221, 222, 231, 232, 233, 251, 252, 253, 281, 333, or 200-level Honors Literature Courses; Any foreign language course whose content is literature including foreign literature in English translation; Medieval Studies 261, 262; Religious Studies 312, 313; Women’s Studies 210, 215.
FINANCE

Professors: J.W. Wansley (Head and Clayton Homes Chair of Excellence), Ph.D. South Carolina; H.A. Black (James F. Smith Professor), Ph.D. Ohio State; T.P. Boehm (AmSoul Scholar), Ph.D. Washington University (St. Louis); R.P. DeGennaro (SunTrust Professor), Ph.D. Ohio State; W.W. Dotten relates (Emeritus), Ph.D. Pennsylvania; M.C. Ehrhardt (Castagna Professor), Ph.D. Georgia Tech; G.C. Philippatos (Distinguished Chaired Professor of Banking and Finance), Ph.D. New York; R.E. Shrievses (Voigt Professor), Ph.D. California (Los Angeles); J.M. Wachowicz, Jr. (AmSoul Scholar), Ph.D. Illinois.

Associate Professors: A.L. Auxier, Ph.D. Iowa; M.C. Collins (Home Federal Faculty Fellow), Ph.D. Georgia; P.R. Daves, Ph.D. North Carolina; D. Murphy, Ph.D. Florida.

Instructors: S. Murphy, MBA, Loyola University.

The finance 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 specialty areas:

Courses in Investment lead to career opportunities 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

Freshman

1. English 101, 102 ................................................. 6
2. Math 123-125 or 141-142 ...................................... 6 or 8
3. Intermediate Foreign Language .......................... 6
4. Natural Science .................................................. 8
5. Social Science .................................................... 6
6. Business Administration 101 .............................. 1

Sophomore

Accounting 201, 202 ................................................. 5
1. Written Communications ..................................... 3
2. Ethics .................................................................... 3
3. Arts ....................................................................... 3
4. Statistics .............................................................. 3
5. Business Administration 201 .............................. 4
6. Humanities (Literature) ........................................ 3
7. Oral Communications ........................................... 3

Junior

Business Administration 331-332 .......................... 4
Business Administration 341-342 .......................... 4
Finance 301 ............................................................. 3
Business Law 301 ..................................................... 3
Business Administration 351-352 ......................... 3
Business Administration 361 .................................... 3
Accounting 311, Statistics 320 or 321, Finance 421 3

*Finance Elective .................................................. 3

Finance 430 ............................................................. 3
Electives .................................................................. 3

Senior Year

Finance 450 ............................................................. 3
*Finance Electives .................................................. 3
Management 401 .................................................... 3
Electives .................................................................. 7-9

Total: 126 hours

*Must be completed by the end of the Freshman year.
2. 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 course in the English Department. If the sophomore literature course appears on the Humanities Literature requirement, the course may also be counted toward the Humanities requirement.
3. Mathematics—Mathematics 125 or 141 are prerequisites for Statistics 201, which is taken during the second semester of the Sophomore Year. As a result, either Mathematics 125 or 141 must be completed by the end of the first semester of the Sophomore Year. Students testing into Mathematics 100, 110, 115, or 119 must complete these courses during their Freshman Year to ensure that Mathematics 125 or 141 can be completed during the first semester of the Sophomore Year. Students who have not completed Mathematics 125 by the end of their Sophomore Year should take Mathematics 125 in the first semester of their Sophomore Year, prior to taking Mathematics 123.
4. Foreign Language—Students must complete the intermediate sequence of a foreign language. Students may either continue the Foreign Language begun in high school or start a new sequence.

MANAGEMENT

Professors: R.W. Boling (Emeritus), Ph.D. Stanford; H.D. Dewhurst (Emeritus), Ph.D. Texas; K.C. Gilbert, Ph.D. Tennessee; L.R. James, Ph.D. Utah; A.H. Kealey (Emeritus), M.B.A. Pennsylvania; R.T. Ladd, Ph.D. Georgia; J.M. Larsen, Jr., (Emeritus), Ph.D. Purdue; A.H. Miller (William B. Stokely Professor of Management), Ph.D. Washington; C.W. Neel, Ph.D. Alabama; C.E. Noon, Ph.D. Michigan; D. Reese (Emeritus), Ph.D. Iowa; M.C. Rush, Ph.D. Akron; M.M. Srivivasan (The Ball Corporation Professor of Management), Ph.D. Northwestern; M.J. Stahl (Distinguished Professor of Management), Ph.D. Rensselaer; S.C. Vance (William B. Stokely Professor of Management, Emeritus), Ph.D. Pennsylvania; G.H. Whitlock (Emeritus and Alumni Distinguished Service Professor), Ph.D. Tennessee.

Associate Professors: O.S. Fowler (Head), Ph.D. Georgia; M.R. Bowers, Ph.D. Clemson; C.P. Edirisinghe, Ph.D. British Columbia; Usha C.V. Haley, Ph.D. New York University; W.Q. Judge, Ph.D. North Carolina; R.C. Maddison (Emeritus), Ph.D. Texas; J.R. Rentsch, Ph.D. Maryland; D.J. Woehr, Ph.D. Georgia Institute of Technology.


Instructors: J.C. Anderson, Master of International Management, Arizona; W.L. Illic, M.A. Tennessee.

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 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.

Hours Credit

Freshman

1. English 101, 102 .................................................. 6
2. Math 123-125 or 141-142 ...................................... 6 or 8
3. Intermediate Foreign Language .......................... 6
4. Natural Science .................................................. 8
5. Social Science .................................................... 6
6. Business Administration 101 .............................. 1

Sophomore

Accounting 201, 202 ................................................. 5
1. Written Communications ..................................... 3
2. Ethics .................................................................... 3
3. Arts ....................................................................... 3
4. Statistics .............................................................. 3
5. Business Administration 201 .............................. 4
6. Humanities (Literature) ........................................ 3
7. Oral Communications ........................................... 3

Junior

Business Administration 331-332 .......................... 4
Business Administration 341-342 .......................... 4
Finance 301 ............................................................. 3
Business Law 301 ..................................................... 3
Business Administration 351-352 ......................... 3
Business Administration 361 .................................... 3
Accounting 311, Statistics 320 or 321, Finance 421 3

*Finance Elective .................................................. 3

Finance 430 ............................................................. 3
Electives .................................................................. 3

Senior Year

Finance 450 ............................................................. 3
*Finance Electives .................................................. 3
Management 401 .................................................... 3
Electives .................................................................. 7-9

Total: 126 hours

*Must be completed by the end of the Freshman year.
2. 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 course in the English Department. If the sophomore literature course appears on the Humanities Literature requirement, the course may also be counted toward the Humanities requirement.
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4. Foreign Language—Students must complete the intermediate sequence of a foreign language. Students may either continue the Foreign Language begun in high school or start a new sequence.

College of Business Administration 93
MANAGEMENT SCIENCE PROGRAMS

(GRADUATE PROGRAMS ONLY)

Professor:  K.C. Gilbert, Ph.D. Tennessee; C.E. Noon, Ph.D. Michigan; M.M. Srinivasan (The Ball Corporation Professor of Management), Ph.D. Northwestern.

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

GRADUATE
Consult the Graduate Catalog for information on graduate programs.

MARKETING, LOGISTICS, AND TRANSPORTATION

LOGISTICS AND TRANSPORTATION


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

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

Logistics has responsibility for the movement of raw materials and component parts into and within a business firm, and the distribution of finished products and services to customers. A major component of logistics, transportation refers to the physical movement of goods between two geographic points. Because having products and/or services in the right place at the right time is critical for success in any business, logistics plays a critical role in a firm's comprehensive supply chain. A career in logistics offers students the opportunity to make a significant contribution to corporate effectiveness in this area. Students interested in transferring their course work to a major in transportation at UT is currently regarded as one of the most comprehensive and contemporary programs in the nation. The program offers a fundamental yet innovative curriculum. Students develop important skills required of logistics professionals, as well as learn how logistics helps solve business supply chain management problems.

Total: 126 hours

1 Must be completed by the end of the Freshman Year.
2 Students who complete English 118, Honors English Composition, with a grade of A or B will complete their English Composition requirement by choosing English 101 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 the Humanities requirement.
3 Mathematics 125 or 141 are prerequisites for Statistics 201, which is taken during the second semester of the Sophomore Year. As a result, either Mathematics 125 or 141 must be completed by the end of the first semester of the Sophomore Year. Students entering into Mathematics 100, 110, 115, or 119 must complete these courses during their Freshman Year to ensure that Mathematics 125 or 141 can be completed during the first semester of the Sophomore Year. Students who have not completed Mathematics 125 by the end of their Freshman Year should take Mathematics 125 in the first semester of their Sophomore Year, prior to taking Mathematics 123.
4 Foreign Language—Students must complete the intermediate sequence of a foreign language. Students may either continue the Foreign Language begun in high school or start a new sequence. Courses taken at other than the intermediate level are treated as non-business electives. Students whose native language is not English may meet this requirement by passing English 131 and 132 and by passing two English language literature courses taught by the English Department at the 200-level.
5 Natural Science—Any two-course sequence from those listed below: NOTE: Certain restrictions may apply to receiving credit in some of these areas. See individual course descriptions or advisor for details. Astronomy 161-162, 217-218; Biology 101-102; Botany 110-120; Chemistry 120-130, or 128-138; Geography 131-132; Geology 101-102, or 101-103, or 107-108; Physics 135-136, or 137-138, or 221-222.
6 Social Science—Public Administration majors must complete either Political Science 101 or 107; Anthropology 110, 120, 130; Sociology 101, 102, 320, 323; Political Science 101, 102, 107; Psychology 110, 117, 220, 310, 320, 360; Sociology 110, 117, 120, 127, 310, 370, 415, 459.
7 Written Communications—One course from: English 263, 295, 355, 360.
8 Ethics—Choose one course from: Philosophy 242, 342, or 344.
9 Arts—One course from the courses listed below: Art 191; Art History 172, 173, 183; Classics 232, 233; Music History 110, 120, 330; Speech 280, Theatre 100, 220, 221, 260; Women's Studies 330.
10 Humanities—Three hours from courses listed below: Asian Languages 311, 312, 313, 314; Classics 253; Comparative Literature 202, 203; English 201, 202, 221, 222, 231, 232, 233, 251, 252, 253, 281, 333, or 200-level Honors Literature Courses; Any foreign language course whose content is literature including foreign literature in English translation; Medieval Studies 261, 262; Religious Studies 312, 313; Women's Studies 210, 215.
11 Oral Communications—One course from: Speech 210, 240.
13 Management Electives—Students should choose electives based on whether they want to focus on general management, human resources management, international management, or operations management. Students must complete four courses in one of the following areas: General—Management 431 and any three upper division Management courses approved by faculty advisor; Human Resources Management—Management 431, 432 and any three upper division Management courses approved by faculty advisor; International Management—Management 471, Logistics and Transportation 441, marketing 440 and any upper division Management course approved by faculty advisor; Operations Management—Management 431, 441, Statistics 365 and either Industrial Engineering 305 or Management Science 410.

Total: 126 hours

1 Must be completed by the end of the Freshman Year.
2 Students who complete English 118, Honors English Composition, with a grade of A or B will complete their English Composition requirement by choosing English 101 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 the Humanities requirement.
3 Mathematics 125 or 141 are prerequisites for Statistics 201, which is taken during the second semester of the Sophomore Year. As a result, either Mathematics 125 or 141 must be completed by the end of the first semester of the Sophomore Year. Students entering into Mathematics 100, 110, 115, or 119 must complete these courses during their Freshman Year to ensure that Mathematics 125 or 141 can be completed during the first semester of the Sophomore Year. Students who have not completed Mathematics 125 by the end of their Freshman Year should take Mathematics 125 in the first semester of their Sophomore Year, prior to taking Mathematics 123.
4 Foreign Language—Students must complete the intermediate sequence of a foreign language. Students may either continue the Foreign Language begun in high school or start a new sequence. Courses taken at other than the intermediate level are treated as non-business electives. Students whose native language is not English may meet this requirement by passing English 131 and 132 and by passing two English language literature courses taught by the English Department at the 200-level.
5 Natural Science—Any two-course sequence from those listed below: NOTE: Certain restrictions may apply to receiving credit in some of these areas. See individual course descriptions or advisor for details. Astronomy 161-162, 217-218; Biology 101-102; Botany 110-120; Chemistry 120-130, or 128-138; Geography 131-132; Geology 101-102, or 101-103, or 107-108; Physics 135-136, or 137-138, or 221-222.
6 Social Science—Public Administration majors must complete either Political Science 101 or 107; Anthropology 110, 120, 130; Sociology 101, 102, 320, 323; Political Science 101, 102, 107; Psychology 110, 117, 220, 310, 320, 360; Sociology 110, 117, 120, 127, 310, 370, 415, 459.
7 Written Communications—One course from: English 263, 295, 355, 360.
8 Ethics—Choose one course from: Philosophy 242, 342, or 344.
9 Arts—One course from the courses listed below: Art 191; Art History 172, 173, 183; Classics 232, 233; Music History 110, 120, 330; Speech 280, Theatre 100, 220, 221, 260; Women's Studies 330.
10 Humanities—Three hours from courses listed below: Asian Languages 311, 312, 313, 314; Classics 253; Comparative Literature 202, 203; English 201, 202, 221, 222, 231, 232, 233, 251, 252, 253, 281, 333, or 200-level Honors Literature Courses; Any foreign language course whose content is literature including foreign literature in English translation; Medieval Studies 261, 262; Religious Studies 312, 313; Women's Studies 210, 215.
<p>Marketing education enables one to pursue varied career opportunities critical to organizations. Typically, a career in marketing begins in either consumer or industrial sales or retailing, which eventually may lead to management positions in any of several areas. For example, marketing professionals may hold positions in advertising, brand management, sales management, promotion management, marketing research, distribution, and other related areas. Students interested in a marketing career should have a broad-based business education, which includes financial management, logistics and transportation, operations, human resources, business strategy, economics, and statistics. In addition to a broad array of courses in arts and sciences, marketing students should obtain a strong grounding in the social sciences to better understand the forces that shape customer preferences.</p>

### MARKETING

**Professors:**
- D.J. Barnaby, Ph.D., Purdue, E.R. Cadotte, Ph.D., Ohio State; J.T. Mentzer, Ph.D., Michigan State; D.W. Schumann, Ph.D., Missouri (Columbia); R.B. Woodruff, D.B.A., Indiana.

**Associate Professors:**
- P.A. Dabhokar, Ph.D., Georgia State; S.F. Gardial, Ph.D., Houston; M.A. Moon, Ph.D., North Carolina (Chapel Hill); R.C. Reizenstein (Chair), Ph.D., Cornell; J.O. Rentz, Ph.D., Georgia.

**Assistant Professors:**
- K.B. Kahn, Ph.D., Polytechnic Institute; M.B. Myers, Ph.D., Michigan State; D.J. Flint, Ph.D., Tennessee.

**Instructor:**
- M.E. Collins, M.B.A., Middle Tennessee State.

Marketing in an organization has responsibility for identifying who customers are, what they need and want, and how best to meet those needs/wants by creating and delivering superior value to them. Marketing professionals use strategy tools to target customers, create value propositions and positioning for each target, and deliver and communicate value to these customers through product design, pricing, advertising, personal selling, promotion, and distribution.

### College of Business Administration

### Hours Credit

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Hours</th>
<th>Credit</th>
</tr>
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<td>English 101, 1026</td>
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<td>Math 123-125 or 141-142</td>
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<tr>
<td>Intermediate Foreign Language</td>
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<td>Natural Science</td>
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<td>Social Science</td>
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<td>Business Administration 101</td>
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<td>Humanities (Literature)</td>
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<td>Oral Communications</td>
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<td>Business Administration 331-332</td>
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</tbody>
</table>

Total: 126 hours

Must be completed by the end of the Freshman Year.

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 the Humanities requirement.

Mathematics—Mathematics 125 or 141 are prerequisites for Statistics 201, which is taken during the second semester of the Sophomore Year. As a result, either Mathematics 125 or 141 must be completed by the end of the first semester of the Sophomore Year. Students testing into Mathematics 100, 110, 115 or 119 must complete these courses during their Freshman Year to ensure that Mathematics 125 or 141 can be completed during the first semester of the Sophomore Year. Students who have not completed Mathematics 125 by the end of their Freshman Year should take Mathematics 125 in the first semester of their Sophomore Year, prior to taking Mathematics 126.

### Foreign Language—Students must complete the intermediate sequence of a foreign language. Students may either complete the first sequence in high school or start a new sequence. Courses taken at other than the intermediate level are treated as non-business electives. Students whose native language is not English may meet this requirement by passing English 131 and 132 and by passing two English language literature courses taught by the English Department at the 200-level.

### Mathematics—An intermediate sequence from those listed below: Note: Certain restrictions may apply to receiving credit in some of these areas. See individual course descriptions or advisor for details. Mathematics 161-162, or 217-218; Biology 101-102; Botany 110-120; Chemistry 120-130, or 128-138; Geography 131-132; Geology 101-102, or 101-103, or 107-108; Physics 135-136, or 137-138, or 221-222.

### Social Science—Two courses from: Anthropology 110, 120, 320; Geography 101, 102, 320, 323; Political Science 101, 102, 107; Psychology 110, 117, 220, 310, 320, 360; Sociology 110, 117, 120, 127, 310, 310, 415, 459.

### Written Communications—One course from: English 263, 295, 355, 360.

### Ethics—One course from: Philosophy 242, 342, or 344.

### Arts—One course from: Art 191; Art History 172, 173, 183; Classics 232, 233; Music History 110, 120, 126; Speech 220, Theatre 100, 220, 221, 260; Women's Studies 330.

### Humanities—One course from: Asian Languages 311, 312, 313, 314; Classics 253; Comparative Literature 202, 203; English 201, 202, 221, 222, 231, 232, 233, 251, 252, 253, 281, 333, or 200-level Honors Literature Courses; Any foreign language courses whose content is literature including foreign literature in English translation; Medieval Studies 261, 262; Religious Studies 312, 313; Women's Studies 210, 215.

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

### Non-US History—Any two-course sequence from: African-American Studies 235-236; Asian Studies 101-102; History 241-242, 247-248, 261-262; Latin-American Studies 251-252; Medieval Studies 201-202; international students who have not taken U.S. History in high school may fulfill this requirement with a United States History sequence.

### Logistics and Transportation Electives—Choose from: Business Administration 311, 467; Civil Engineering 595; Economics 311, 341, 361; English 455; Finance 470; Geography 340, 411, 449; Information Science 311, 341; Marketing 310, 320, 420; Speech 310, 330; Logistics and Transportation—all 400 level or above courses.

### 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.

Public administration majors find careers in city management, tax administration, budget analysis, and in the functional areas of government such as education, health, and economic development. Opportunities exist at the federal, state, and local levels of government. Many public administration majors pursue graduate-level education and training. Law schools and the Masters of Public Administration are two possible options.
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 and conveying the scope and power of statistics major at UT will enable them 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.

STATISTICS

Professors:
Robert W. Mee (Head), Ph.D. Iowa State; H. Bozdogan, Ph.D. Illinois; Frank M. Guess, Ph.D. Florida Statue; Robert A. McLean (Emeritus), Ph.D.; C.L. Budrason, Ph.D.; D. Southern Methodist; John W. Philpot (Emeritus), Ph.D. Virginia Polytechnic; Richard D. Sanders (Emeritus), Ph.D. Texas; David L. Stowler (Emeritus), Ph.D. Stanford; Charles C. Thigpen (Emeritus), Ph.D. Virginia Polytechnic Institute.

Associate Professors:
Mary G. Leitnaker, Ph.D. Kentucky; Ramon V. Leon, Ph.D. Florida State; William L. Seaver, Ph.D. Texas A&M; Esteban Walker, Ph.D. Virginia Polytechnic; Mary Sue Younger, Ph.D. Virginia Polytechnic.

Assistant Professor:
Halima Bensmih, Ph.D. Paris VII; Hyunjoong Kim, Ph.D. Wisconsin.

Instructor:
Charles M. Cwiek, M.S. Tennesse.

Adjunct:
K.O. Bowman, Ph.D. Virginia Polytechnic Institute; Edward L. Frome, Ph.D. Emory; Stephen A. McGuire, Ph.D. Kansas 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 make sense of the data, and then interpret 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 students will learn as a statistics major at UT will enable them 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.
have not completed Mathematics 125 by the end of their Freshman Year should take Mathematics 125 in the first semester of their Sophomore Year, prior to taking Mathematics 123.

*Foreign Language—Students must complete the intermediate sequence of a foreign language. Students may either continue the Foreign Language begun in high school or start a new sequence. Courses taken at other than the intermediate level are treated as non-business electives. Students whose native language is not English may meet this requirement by passing English 131 and 132 and by passing two English language literature courses taught by the English Department at the 200-level.

*Natural Science—Any two-course sequence from those listed below: NOTE: Certain restrictions may apply to receiving credit in some of these areas. See individual course descriptions or advisor for details. Astronomy 161-162, or 217-218; Biology 101-102; Botany 110-120; Chemistry 120-130, or 128-138; Geography 131-132; Geology 101-102, or 101-103, or 107-108; Physics 135-136, or 137-138, or 221-222.

*Social Science—Two courses from: Anthropology 110,120, 130, 320; Geography 101, 102, 320, 360; Sociology 110, 117, 120, 127, 310, 370, 415, 459.

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

*Ethics—One course from: Philosophy 242, 342, or 344.

*Arts—One course from: Art 191; Art History 172, 173, 183; Classics 232, 233; Music History 110, 120, 330; Speech 280, Theatre 100, 220, 221, 260; Women’s Studies 330.

*Humanities—One course from: Asian Languages 311, 312, 313, 314; Classics 253; Comparative Literature 202, 203; English 201, 202, 221, 222, 231, 232, 233, 251, 252, 253, 281, 333, or 200-level Honors Literature Courses; Any foreign language courses whose content is literature including foreign literature in English translation; Medieval Studies 261, 262; Religious Studies 312, 313; Women’s Studies 210, 215.

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


*Math Elective—To attain at least 126 hours, students who took the six credits of Math 123-125 should take Math 141-142; for others the recommended courses are Math 241 and 251.

*Statistics Electives—Choose any two courses from Statistics 472, 473, 475; Mathematics 423, 424, 425.

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**CENTER FOR BUSINESS AND ECONOMIC RESEARCH**

W.F. Fox (Director), Research Professor, Ph.D. Ohio State

M.N. Murray (Associate Director), Research Professor, Ph.D. Syracuse

D. Bruce, Research Assistant Professor, Ph.D. Syracuse

M.J. Cornelius, Research Associate, M.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
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; Tennessean 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 in the department).

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
The Bachelor of Science degree is awarded to majors who successfully complete the prescribed 124 hours of courses listed below. Students who have completed the course requirements for the freshman year with a minimum 2.75 cumulative GPA and who achieve a 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 must acquire a cumulative grade point average of at least 2.0 in all College of Communications courses used to fulfill graduation requirements.

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 2.75 cumulative GPA to be considered for admission.

GRADUATE

Consult the Graduate Catalog for listing of graduate level courses.

**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.

**ADVERTISING**

**Professors:** Roxanne Hovland, Ph.D. Illinois; Maria G. Hoy, Ph.D. Oklahoma State; Ronald E. Taylor (Head), Ph.D. Illinois.

**Associate Professor:** Eric Haley, Ph.D. Georgia.

**Assistant Professors:** Michael Hoefges, Ph.D. Florida; Margaret Morrison, Ph.D. Georgia; Sally McMillan, Ph.D. Oregon.

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

**Hours Credit**

<table>
<thead>
<tr>
<th>Freshman</th>
<th>English 101, 102</th>
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<tbody>
<tr>
<td></td>
<td>Communications 100</td>
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<td></td>
<td>Foreign Language</td>
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<td></td>
<td>Anthropology 130</td>
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<td>Advertising 250</td>
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<td>History 241, 242</td>
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<td>Economics 201</td>
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<tr>
<td></td>
<td>Statistics 201</td>
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<td></td>
<td>Political Science 101 or 102</td>
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<tr>
<td></td>
<td>Accounting 201</td>
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<td></td>
<td>Journalism 280</td>
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<td>Speech 240</td>
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<td>Marketing 300</td>
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<tr>
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<td>Electives outside College of Communications</td>
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</tbody>
</table>

**Total:** 124 hours

**JOURNALISM**

**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:**
- Barbara K. Kaye, Ph.D. Florida State
- 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

**Broadcasting**

**Professors:**
- Paul G. Ashdown, Ph.D. Bowling Green
- Dorothy A. Bowles, Ph.D. Wisconsin (Madison)
- Edward Caudill, Ph.D. North Carolina
- 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
- Candace L. White, Ph.D. Georgia

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

**Hours Credit**

<table>
<thead>
<tr>
<th>Freshman</th>
<th>English 101, 102</th>
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<td>Foreign Language</td>
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<td>Speech 210 or 240</td>
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<td>Professional Electives</td>
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<td>General Electives</td>
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**Total:** 124 hours

- Six hours of intermediate foreign language is required.
- Natural Science Electives are any two courses from: Astronomy 161, 162; Biology 101, 102; Botany 110, 120; Chemistry 100, 110, 120; Geography 131, 132; Geology 101, 102, or 103.

"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 CONCENTRATION

Freshman

<table>
<thead>
<tr>
<th>Course</th>
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<td>English 101, 102</td>
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<td>Natural Science Electives</td>
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<td>Psychology</td>
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<td>Journalism 280 or 290</td>
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<td>Communications 300</td>
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<td>Journalism 360</td>
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<td>Social Science Elective</td>
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<td>Literature Elective</td>
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Senior

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<th>Course</th>
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<td>Journalism 420</td>
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<td>Journalism 430</td>
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<td>Journalism 460</td>
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<td>Humanities Elective</td>
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<td>General Elective</td>
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Total: 124 hours

PUBLIC RELATIONS CONCENTRATION

Freshman

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<tr>
<th>Course</th>
<th>Hours</th>
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<td>English 101, 102</td>
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</tr>
<tr>
<td>Communications 100</td>
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<td>Foreign Language</td>
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<td>Natural Science Electives</td>
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<td>Humanities Elective</td>
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<td>Math 119 or 123</td>
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<td>Speech 240</td>
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<td>Accounting 201</td>
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<td>Literature Electives</td>
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<tr>
<td>Political Science Elective</td>
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<td>Marketing 300</td>
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Total: 124 hours

SPEECH COMMUNICATION

Freshman

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<td>English 101, 102</td>
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<td>Mathematics Elective</td>
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<td>Psychology</td>
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<td>Speech 210 or 240</td>
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<td>Speech 250 or 270</td>
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<td>General Electives</td>
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Senior

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Total: 124 hours