CAUTION: The course offerings and requirements of the University are continually under examination and revision. This catalog presents the offerings and requirements in effect at the time of publication but is no guarantee that they will not be changed or revoked. Current information may be obtained from the following sources:

Admission Requirements
- Director of Admissions
  State of Tennessee: 1-800-221-8657
  All others: (865) 974-2184

Course Offerings
- Department offering course

Degree Requirements
- Office of the Registrar, faculty advisor,
  head of major department, College
  Advising Center, or dean of college/school

Fees and Tuition
- Office of the Treasurer

UT Homepage
- http://www.utk.edu/

EEO/TITLE IX/AA/SECTION 504 STATEMENT
The University of Tennessee does not discriminate on the basis of race, sex, color, religion, national origin, age, disability, or veteran status in provision of education programs and services or employment opportunities and benefits. This policy extends to both employment by and admission to the University.

The University does not discriminate on the basis of race, sex, or disability in the education programs and activities pursuant to the requirements of Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act (ADA) of 1990.

Inquiries and charges of violation concerning Title VI, Title IX, Section 504, ADA, the Age Discrimination in Employment Act (ADEA), or any of the other above referenced policies should be directed to the Office of Diversity Resources & Educational Services (DRES); 1210 Terrace Avenue; Knoxville, TN 37996-5560; telephone (865) 974-2496 (TTY available). Requests for accommodation of a disability should be directed to the ADA Coordinator at the Office of Human Resources Management; 300 Henley Street; Knoxville, TN 37996-4125.

A project of UTK Undergraduate Academic Affairs, 420 Communications Building, Knoxville, Tennessee 37996-0349, with assistance from Creative Services, (865) 974-2225. Revisions: 5358.

In accordance with the Tennessee College and University Security Information Act of 1989 and the Student Right-to-Know and Campus Security Act. The University of Tennessee, Knoxville has prepared a report containing campus security policies and procedures, data on campus crimes, and other related information. A free copy of this report may be obtained by any student, employee, or applicant for admission or employment from the Office of the Dean of Students; 413 Student Services Building; UT Knoxville; Knoxville, TN 37996-0248.

Publication Authorization Number: E01-0425-003-00
THE UNIVERSITY OF TENNESSEE BOARD OF TRUSTEES

Legal Title: The University of Tennessee
His Excellency, THE GOVERNOR OF TENNESSEE
The Commissioner of Education
The Commissioner of Agriculture
The President of the University
The Executive Director of Tennessee Higher Education Commission

From Congressional Districts

<table>
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From Anderson, Bedford, Coffee, Franklin, Lincoln, Moore, and Warren Counties
J. Steven Ennis 1988 June 1, 2000

From Davidson County
R. Clayton McWhorter 1993 June 1, 2005

From Hamilton County
Frank J. Kinser 1996 June 1, 2002

From Knox County
Susan Richardson-Williams 1965 June 1, 2001
James A. Haslam II 1980 June 1, 2001

From Shelby County
Arnold E. Perl 1996 June 1, 2002
Lucy Y. Shaw 1996 June 1, 2002

From Weakley County
Barbara C. Castileman 1996 June 1, 2002

Student Member
Brandi Wilson 1999 July 1, 2000

Faculty Member
William Bass 1999 July 1, 2000

Officers of the Board
Governor Don Sundquist, Chairman
William B. Sansom, Vice Chairman
Beauchamp E. Brogan, Secretary
Linda Logan, Assistant Secretary

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General Counsel, Catherine Mizell, B.A., J.D.
Treasurer, Charles M. Pecko, Jr., B.S., M.Acc., C.P.A., C.C.M.
# Academic Calendar for 2000-2001

## Fall Semester, 2000

<table>
<thead>
<tr>
<th>Date</th>
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<tbody>
<tr>
<td>August 23</td>
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<tr>
<td>October 4</td>
<td>Graduation Application Deadline</td>
</tr>
<tr>
<td>October 12-13</td>
<td>Fall Break</td>
</tr>
<tr>
<td>November 23-24</td>
<td>THANKSGIVING HOLIDAYS</td>
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<tr>
<td>December 7</td>
<td>Classes End</td>
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<tr>
<td>December 8</td>
<td>Study Period</td>
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<tr>
<td>December 9, 11-14</td>
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## Mini-Term 2001

- May 9-May 29: Mini-Term

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The University of Tennessee
Map of the Campus in Knoxville

Emergency Blue Phones

Interior Emergency Blue Phones
THE UNIVERSITY OF TENNESSEE

Administrative Officers
President and Chief Executive Officer, J. Wade Gilley, B.S., M.S., Ph.D.
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Senior Vice Provost for Administration, Philip A. Scheurer, B.A., M.S.
Vice Provost for Student Affairs, W. Timothy Rogers, B.A., M.S., J.D.
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Dean of University Outreach and Continuing Education, Robert Leifer, B.S., M.S., Ed.D.
Dean of The Graduate School, C.W. Minkel, B.A., M.A., Ph.D.
Dean of Admissions and Records, Richard Bayer, B.A., M.A.

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Dean of the College of Architecture and Design, Marileen K. Davis, B.Arch., M.Arch.
Dean of the College of Arts and Sciences, Lorayne W. Lester, B.S., M.A., Ed.D.
Dean of the College of Business Administration, C. Warren Neel, B.S., M.B.A., Ph.D.
Dean of the College of Communications, Dwight L. Teeter, A.B., M.J., Ph.D.
Dean of the College of Education, C. Glennon Rowell, B.S., M.A., Ed.D.
Dean of the College of Engineering, Jerry E. Stoneking, B.S., M.S., Ph.D.
Dean of the College of Human Ecology, James D. Moran, III, B.A., M.S., Ph.D.
Director, School of Information Sciences, Elizabeth S. Aversa, B.A., M.Ln., Ph.D.
Dean of the College of Law, Thomas C. Galligan, Jr., A.B., J.D., L.L.M.
Dean of the College of Nursing, Joan Creasia, B.S.N., M.S.N., Ph.D., R.N.
Dean of the College of Social Work, Karen Sowers, B.A., M.S.W., Ph.D.
Dean of the College of Veterinary Medicine, G. Michael H. Shires, B.V.Sc., M.S., M.R.C.V.S., Dip.A.C.V.S.
Interim Dean of University Libraries, Aubrey Mitchell, B.S., M.S.

Independent Departments
Air Force Reserve Officers' Training Corps, Professor of Aerospace Studies, Col. Charles F. Schreck, USAF
Army Reserve Officers' Training Corps, Professor of Military Science and Tactics, Col. William P. Woodcock, USA
The University

The University of Tennessee is the state's flagship institution, offering comprehensive programs of undergraduate, graduate, and professional education; research; and public service throughout the state. The university is composed of the main campus at Knoxville and the health science center at Memphis as well as institutes of agriculture, public service, and space.

UT is the only public institution in the state with the Carnegie Research 1 classification.

The main campus offers more than 300 degree programs to its 26,000 students, who come from every county in Tennessee, every state in the nation, and more than 100 foreign countries. There are 15 colleges and schools.

A faculty of 1,200 provides high quality educational experiences to students while also performing research and providing public service to their communities, the state, and the nation.

Information technology is central to the classrooms and offices of the university. All residence hall rooms are wired for the Internet, computer laboratories throughout the campus are constantly being improved and updated, and many classes have a Web presence.

UT, in partnership with Battelle Memorial Institute, manages Oak Ridge National Laboratory, located 25 miles northwest of campus. Winning the five-year, $2.5 billion research contract puts UT among a select group of universities that manage national laboratories for the U.S. Department of Energy.

ORNL is the university's largest research partner. The Science Alliance, a Tennessee Accomplished Center of Excellence, strengthens research ties between UT and the laboratory and improves science programs at the university. As part of the Science Alliance, UT and ORNL share 12 Distinguished Scientists who hold the rank of full professor at the university and senior scientist at the laboratory. UT and ORNL also share 10 Collaborating Scientists who strengthen mutual research.

The campus has other Centers of Excellence in hazardous waste management, materials processing, and veterinary medicine.

The university's libraries have more than 2 million volumes and volume-equivalents as well as online access to the collections of the Library of Congress and Oak Ridge National Laboratory.

Through public service, the university extends its resources throughout the state and nation. Lifelong learning programs are delivered online and via video and correspondence to working adults who are seeking college degrees or career advancement.

HISTORICAL BACKGROUND

The University of Tennessee, one of the nation's older institutions of higher education, celebrated its Bicentennial in 1994. Two years before statehood was achieved, the legislature of the Southwest Territory, which later became Tennessee, granted a charter to Blount College, named in honor of William Blount, territorial governor.

Located near the center of Knoxville’s present business district, Blount College was nonsectarian in character, which was unusual for an institution of higher education in that day. The University has remained nonsectarian and is said to be the oldest such institution west of the Appalachian Divide.

From the outset, Blount College was all-male, as were most colleges at the time. The restriction was ended in 1882, when the first women students were admitted. The University of Tennessee thereafter was fully coeducational.

In 1807 the state legislature changed the name to East Tennessee College, and in 1826 the present site at Knoxville, the 40-acre tract known as "The Hill," was acquired. The college's name changed again in 1840 to East Tennessee University. The Civil War forced the institution to close, and its buildings were used as a hospital for Confederate troops and later occupied by Union troops.

East Tennessee University reopened after the war, and in 1869 the state legislature selected the University as the state's Federal Land-Grant Institution, under terms of the Morrill Act passed by Congress in 1862. This enabled the University to broaden its offerings by adding agricultural and engineering courses to its curriculum, as well as military science, which the Morrill Act required.

The university has grown almost constantly since then. The medical campus, founded in Nashville and acquired by the university in 1879, moved to Memphis in 1911. The University of Tennessee at Martin, established in 1900 as a private institution, became part of UT in 1927. The University of Tennessee at Chattanooga was established in 1969 when the private University of Chattanooga merged with UT. The Space Institute, a graduate research and education center near Tullahoma, opened in 1964.

The Institute of Agriculture, headquartered in Knoxville, traces its beginnings to 1869 when UT became Tennessee's land-grant institution, and the Institute for Public Service was founded and brought together several existing government and industrial outreach programs in 1971.

Today the University of Tennessee System serves the entire state through three separate institutions: the University of Tennessee (Knoxville, Memphis, and institutes of agriculture, public service, and space), the University of Tennessee at Chattanooga, and the University of Tennessee at Martin.

UT has among its faculty and alumni two Nobel laureates, seven Rhodes scholars, six Pulitzer Prize winners, and ten astronauts. UT alumni number more than 250,000.

ACCREDITATION

The University of Tennessee (Knoxville campus) is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award baccalaureate, masters, and doctoral degrees.

STUDENT AFFAIRS AND SERVICES

ACADEMIC COMMON MARKET

The Academic Common Market is an agreement among states for sharing unique programs. Participating states can make arrangements for their residents who are fully admitted to specific programs at UT (Knoxville campus) to enroll on an in-state tuition basis, if these programs are not available in the state of residence.

Cooperating states in the Academic Common Market are Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland,
The University of Tennessee, Mississippi, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia. 14 doctoral, 24 Master's, and 30 Bachelor's programs at UT Knoxville are approved by the Academic Common Market for residents of these states to enroll at in-state tuition rates. Students must be fully admitted to the appropriate college and the letter of certification must be received in the Office of Graduate Admissions and Records no later than the first day of classes for the effective semester.

Residents of member states who seek further information should contact the Senior Admissions Specialist in the Office of Graduate Admissions and Records, 974-3251, or the Southern Regional Educational Board, 922 Tenine Street, N. W., Atlanta, GA 30318-5790, (404) 675-9211, fax: (404) 672-1477; e-mail: ann.creath@sreb.org or info@sreb.org or visit the SREB website at http://www.sreb.org.

ADULT STUDENT SERVICES CENTER

The Adult Student Services Center was created to help students who have delayed or interrupted their college education for a period of time and to assist students older than average (25 years or older).

Specifically, the office works with other departments on campus to provide admissions and re-admissions counseling, academic advising, peer support programs, orientation programs, information about careers and financial aid, and educational workshops for adult students. Personalized referral for university services will be made as well.

The Office of Adult Student Services Center is located at 413 Student Services Building. 8:00 a.m.-5:00 p.m. Monday-Friday and in the evening hours by appointment.

ATHLETICS

The University of Tennessee encourages athletics as a part of its educational program. Men's intercollegiate sports are administered by the Department of Intercollegiate Athletics, Doug Dickey, Director. Women's intercollegiate sports are administered through the Division of Student Affairs and under the direction of the Department of Intercollegiate Athletics for Women, Joan Cronan, Director.

There are men's teams in football, basketball, cross country, and indoor and outdoor track and field, baseball, swimming, tennis, and golf. Intercollegiate games are played according to the rules of the National Collegiate Athletic Association (NCAA) and the Southeastern Conference (SEC). Eligibility for participation is determined by the NCAA, SEC, and the University faculty.

There are women's teams in basketball, swimming, rowing, softball, soccer, tennis, volleyball, cross country, and indoor and outdoor track and field. Intercollegiate varsity games are played according to the rules of the NCAA and the SEC. Eligibility for participation is determined by the NCAA, the SEC, and the University faculty. Any full-time female undergraduate student is eligible to try out. Additional information can be obtained by writing to the Director of Women's Athletics, 207 Thompson-Boling Arena.

THOMPSON-BOLING ASSEMBLY CENTER AND ARENA

Thompson-Boling Assembly Center and Arena opened its doors in December 1987. The facility, which seats 24,535, is named for the late Knoxville businessman B. Ray Thompson and former UT President Edward J. Boling. Thompson-Boling Arena has already attracted such events as the 1989 SEC Basketball Tournament, 1990 Southeast Regional first and second round games, and the 1990 NCAA Women's Final Four to the University of Tennessee. The 1994 Men's Southeast Regional finals were held at Thompson-Boling Arena, as were the 1995 Women's Midwest Regional Championships. The 1999 Men's South Regional was also held at Thompson-Boling Arena.

NEYLAND STADIUM

 Neyland Stadium, the University's football stadium, was named in memory of the late General Robert R. Neyland, longtime football coach and athletics director. Shields-Watkins Field is named in honor of William S. Shields, former member of the University Board of Trustees, his wife, Alice Watkins-Shields.

The stadium, built and developed by the Department of Athletics over a period of years, was expanded in 1996 to a capacity of 102,854 fans.

New luxury boxes on the upper east side of the stadium will be in place for the 2000 season, bringing total capacity to approximately 104,000.

OTHER FACILITIES

Tom Black Track is host to regional and national meets and is built to Olympic specifications. The University hosted the 1995 NCAA Men's and Women's Division I Track Championships. The UT baseball facility, the 5,500-seat Lindsey Nelson Stadium, was completed in February of 1993. Named for broadcasting legend and UT alumnus Lindsey Nelson, the facility provides an ideal environment for fans. It was the site of the 1993, 1994, and 1995 NCAA Midwest Regionals. Outdoor tennis courts and a new indoor facility, named the Goodfriend Tennis Center, also afford an excellent vantage point for spectators.

RECREATIONAL SPORTS

The Office of Recreational Sports coordinates recreation activities of the Student Aquatics Center, H.P.E.R., Stokely Athletics Center, including Intramurals, Sports Clubs, Aquatics Programs and Informal Recreation and Fitness Programs. Please refer to Hilltopics. The student handbook for more detailed information.

BLACK CULTURAL CENTER

The Center is an integral part of the University of Tennessee. The Center provides academic, cultural, and social outlets through programs and services as an ongoing part of the University's retention efforts. The Tutorial and East campus programs along with the Resource Library and the Computer Lab serve as an extension to services provided across campus.

The Center houses several student organizations that plan activities ranging from Brown Bag Lecture Series; Black History Month activities; the Welcome Week Splash Party; carnivals; and renown speakers such as Maya Angelou, Tavis Smiley, Comel West, and Alice Walker.

The Center is located at 812 Volunteer Boulevard. The University community is encouraged to visit the facility and take advantage of the opportunities provided for ALL students.

CAREER SERVICES

Career Services helps students through individual and group assistance to choose a major, assess career alternatives, find employment, and complete a successful transition from the University to the world of work. The Service is especially well known for its effective placement help which includes on-campus recruitment, job referrals, and other sources of job contacts.

Included in the services offered at Career Services are the Strong Interest Inventory; Exploring Majors and Careers, a one-credit course designed to help with choosing a major; career counseling appointments; a Career Resource Center that includes a comprehensive collection of career-related books, magazines, articles, and videotapes; Cooperative Education, a program for alternating terms of school and full-time work experience for non-engineering majors; an annual Career Fair providing opportunity to speak informally with representatives from over 100 different employers about their entry level jobs and hiring practices; and an annual Summer Job Festival.

Also available are: Employer Information, which includes types of majors sought, job descriptions, career profiles, annual reports, and other pertinent information for hundreds of companies that recruit at UT; Workshops providing instruction in skills and tactics for successful interviewing, resume preparation, Business and Dining Etiquette, and other topics; and Credit Courses, including Business Career Planning and Placement, Engineering Career Planning and Placement, and Exploring Majors and Careers.

On-Campus Interviews are scheduled throughout the year of graduation and require registration using a web-based system available to all UT students. A state-of-the-art web-based information and scheduling system is used. Thousands of interviews are scheduled each year which include approximately 450 companies, government agencies, and school systems.

Career Services also includes a Part-time Employment service for students seeking on-campus or off-campus jobs. Job vacancies are listed through a 24-hour job hotline (974-9734 or 1-888-JOBS UT), and Alumni Placement Service offers assistance in the search after graduation and a Credential Service is available for doctoral candidates in professions requiring documentation of career-related experiences along with letters of recommendation.

For information regarding Career Services call 974-5435 or check the web site at http://web.utk.edu/career.

CENTER FOR INTERNATIONAL EDUCATION

(Students interested in applying to UT should consult the requirements listed in the International Students Applicants section of this Catalog, or for graduate studies the Graduate Catalog.)

The goal of the Center for International Education, 1920 Melrose Avenue, is to promote and facilitate the internationalization of the UT campus, curriculum and community. It assists students and faculty from other countries with matters of particular concern to them during their stay in the United States. It provides advice concerning visas and with the U.S. Immigration and Naturalization Service (INS). The Center is the University's official...
representative to INS, to international educational organizations and to foreign governments.

The Center serves as a liaison with international students and scholars and the faculty and other University units. It assists with adjustment through orientation programs required of all new international students at the beginning of each academic term, and through individual advising and counseling on personal and academic matters.

The Center also serves students and faculty interested in travel, work or study abroad. Staff are available to advise, assist in the preparation of fellowship/scholarship applications, and to provide information on a broad range of international topics. A reference library of overseas study and travel materials, scholarship and other special programs intended to serve those with international interests is at the Center. International exchange programs through which enrollment at more than 100 universities throughout the world becomes possible and affordable for UT students are available. The phone number of the Center is: 974-3177, E-Mail: CIE@UTK.EDU.

UT's International House, 1623 Melrose Avenue (phone 865) 974-4453, is an integral part of the Center. The 30,000 square foot facility opened in the winter of 1995-96 and serves as a meeting place for everyone, regardless of nationality. The "I-House" always offers a cup of coffee or tea and features numerous meeting rooms, informal seating areas, a computer lab, international television, table tennis and a library. A list of I-House events may be accessed via the main UT Web homepage.

CULTURAL OPPORTUNITIES

ART

Exhibits of the work of artists, craftspeople and architects are sponsored on a regular basis by the Department of Art and the School of Architecture. The Ewing Gallery of Art and Architecture, located on the ground floor of the Art and Architecture Building, hosts major exhibitions of work by national and international artists for periods of four to six weeks. A second gallery, also located on the ground floor of the Art and Architecture Building, is used for short-term exhibits and project critiques. The Reese collection, a group of outdoor sculpture, is on permanent display throughout campus.

1010 Gallery, administered by the Art Department Student Advisory Committee, is located off-campus in the Candy Factory Building on the World's Fair Site. This gallery features student work in exhibits of one to four weeks.

Arrowmont School of Arts and Crafts, a UT Knoxville affiliate located in Gatlinburg, Tennessee, displays works by faculty and students during the summer months, and works from both the permanent collection and sponsored competitions during the remainder of the year.

The Art Education Gallery is located on the ground floor of Oaxton Education Building, and features work by elementary, high school and university students and by regional artists. The gallery is open 5 days a week and most exhibits are on display from three to four weeks.

The Ralph E. Dunford Art Collection and the Marian G. Heard Crafts Collection are housed and exhibited in the University Center. These collections are supplemented each year with purchases made possible through student programs. Acquisitions of works by area artists are emphasized by the selection committee. Additionally, shows selected by the Student Exhibition Committee are mounted on a monthly basis in the Concourse Gallery and the Barton Music Lounge of the Carolyn P. Brown Memorial University Center.

BROADCASTING

WUOT 91.9 FM broadcasts in stereo with an effective radiated power of 100,000 watts, as authorized by the FCC, 24 hours each day. WUOT presents a classical and informational format designed to enrich and improve the quality of life for those within reception range. Programming includes National Public Radio news, classical, folk, and jazz music. WUOT is a charter member of National Public Radio, Public Radio International, and Southern Public Radio. WUOT meets Corporation for Public Broadcasting criteria for full service operation as a public radio station and is a member in good standing of the National Association of Broadcasters. A sample program guide may be obtained at station offices in Room 209 Communications Building.

WUTK-FM is a student-oriented radio station operated by the Department of Broadcasting at the University of Tennessee (Knoxville campus). Broadcasting majors serve as announcers, news writers and reporters, producers, and account executives. The station is programmed as an alternative rock music station and is located at 90.3 on the FM band. The target audience for the station is the student population of UT. Studios are located at P-103 Andy Holt Tower.

CONCERTS

Popular and cultural concert series bring to the University community some of the finest artists in the entertainment field. Major pop and classical artists regularly perform in the 25,000 seat Thompson-Boling Arena.

The student "Campus Entertainment Board" has exclusive responsibility to sponsor smaller and emerging popular entertainment at various locations across the campus, concerts, conventions, and special events are part of the fun! Another student committee, the "Cultural Attractions Committee," group is responsible for the presentation of programs in the arts to include dance, music, Jazz, strings, vocal, brass, modern and classical dance and music productions are annually presented.

FRANK H. MCCLUNG MUSEUM

Officially dedicated in 1963, the McClung Museum is actively involved in the collecting, preservation, and exhibition of objects in the fields of anthropology, archaeology, decorative and fine arts, medicine, local history and architecture, geological sciences and natural history.

Archaeological specimens, some as old as 12,000 years, are exhibited during the University's extensive excavations in the Tennessee River Valley are included in a new major exhibition "Archaeology and the Native Peoples of Tennessee." Another major, continuing exhibit "Ancient Egypt: The Eternal Valley," explores the heights in the Nile Valley from the pre-dynastic through the pharaonic period, with statuary, artifacts and a Dynasty XXI mummy. The continuing exhibition "The Decorative Experience" in the Judge John and Ellen Green and Eleanor Deane Audiger Gallery showcases collections made in a variety of materials such as ceramics, glass, textiles and metals from the Museum's collections. Some aspects of the educational sciences and the natural history of Tennessee are also displayed on the main floor.

The four million years of human evolution is presented in "Lucy and Her Relatives" on the lower floor. In the case opposite Lucy, is another exhibit, "Treasures Past and Present: Freshwater Mussels" which displays the life cycle and many uses of the mussel, from tools to the pearl button industry. The Verhegen Gallery contains temporary exhibitions that change two or three times a year. Temporary exhibit exhibits and other displays are installed throughout the year.

LECTURES

Each semester the student issues Committee presents programs around a current theme. The programs feature speakers who are considered experts and represent diverse points of view on a variety of topics.

MUSIC

UT Choral Groups consist of the Concert Choir, University Chorus, Women's Chorale, Chamber Singers, and UT Singers. These groups are open to all students by audition, except University Chorus which does not require auditions.

The UT Singers are known as the University's "Good Will Ambassadors." Among the many projects of this group are the annual statewide tour each spring.

The UT Opera Theatre and Workshop presents three performances yearly. The varied program of operatic music ranges from one-act to complete three-act operas with symphonic accompaniment, and from television opera to selected scenes from the classic repertoire.

The UT Symphony Orchestra plays concerts on campus and serves as orchestra for opera and choral productions. UT's marching band, celebrated as "The Pride of the Southland," presents outstanding entertainment on football Saturdays at both home and out-of-town games.

During winter and spring, the band is divided into two concert groups which tour the South: a variety pep band that performs at basketball games, and the laboratory group which provides valuable training for its members.

Fine Arts Presentations, scheduled under the auspices of the School of Music, consist of a series of Faculty Recitals which feature vocal and instrumental music; Student Recitals presented by upperclass and graduate members of the music department in partial fulfillment of degree requirements; and concerts by the Bands, Symphony Orchestra, Jazz Ensemble, Percussion Ensemble, and small ensembles.

The Scottish Rite Masonic Chair of Choral Art brings to The University of Tennessee campus a distinguished conductor and/or composer in the field of choral music who serves as a guest lecturer for workshops sponsored by the School of Music.

The auditorium of the Music Building is named for East Tennessean Grace Moore, whose family donated a large collection of her memorabilia to UT. The collection may be viewed at the Frank H. McClung Museum by appointment.
THEATRE
Two theatre companies comprise the University of Tennessee Theatres. The Clarence Brown Theatre Company is a professional theatre company in residence at the University of Tennessee, Knoxville. Founded in 1874 by Anthony Quayle and Ralph G. Allen, the Clarence Brown Theatre Company is a member of the League of Resident Theatres (LORT) and Theatre Communications Group, Inc.

The second company (University Company) has, under various titles, been staging productions since the late 1930s, using UT students and faculty as well as talent from the Knoxville Community.

In addition to these companies, the Department of Theater sponsors ACT (All Campus Theatre), a student organization whose goals are to provide educational opportunities in theatre, to assist in UT Theatres’ production activities, to provide students with a forum, social activities and assistance, and to sponsor its own productions as time, human resources, interest, and space permit.

The professional and university companies perform in the Clarence Brown Theatre and the Carousel Theatre. The Clarence Brown Theatre was built in 1970, and includes the 600-seat main auditorium with a proscenium stage, and the Studio Theatre, a 125-seat proscenium thrust theatre.

The Ula Love Doughty Carousel Theatre is a theatre-in-the-round constructed in 1951. Preceded by a tent theatre, this permanent structure, the Carousel, provides intimate performance surroundings. The seating is flexible, accommodating 350 to 500 patrons.

The season runs from September through June, and features a combination of student/faculty and professional productions. The Department of Theatre also hosts several international artists annually.

All University students are welcome to participate in the University of Tennessee Theatres.

DINING SERVICES FACILITIES
UT Dining Services recognizes that campus dining is a large part of your college experience. Students have the choice of the following meal plan options depending on the type of dining desired. Meal plans are available to all students living on or off campus.

MEAL PLAN OPTIONS

Unlimited Access Plus Plan
Unlimited Access means just that! You may enter recently renovated Presidential Court, Sophie’s Place, and Morrill Dining facilities anytime during their hours of operation and eat as much as you want, full meals or snacks! Meal plan meals may also be eaten at select retail dining facilities. Certain restrictions apply at these locations. You also receive $300 bonus bucks per semester.

The Any Ten Plus Plan
You choose 10 meals weekly that may be eaten at recently renovated Presidential Court, Sophie’s Place, and Morrill Dining facilities. Meal plan meals may also be eaten at select retail dining facilities. Certain restrictions apply at these locations. You also receive $300 bonus bucks per semester.

With the Any Ten Plus Plan you can elect to eat all of your 10 meals exclusively at Varsity Inn Dining. Even when you designate to eat your 10 meals only at Varsity Inn Dining, your bonus bucks are available for use at any Dining Services’ facility on campus.

Unlimited Access Plan
This plan allows you to eat as much as you want as often as you want at recently renovated Presidential Court, Sophie’s Place, and Morrill Dining facilities. Meal plan meals may also be eaten at select retail dining facilities. Certain restrictions apply at these locations. You also receive $300 bonus bucks per semester.

With the Unlimited Access Plan you can elect to eat all of your 10 meals exclusively at Varsity Inn Dining. Even when you designate to eat your 10 meals only at Varsity Inn Dining, your bonus bucks are available for use at any Dining Services’ facility on campus.

The Any Ten Plan
You choose 10 meals weekly to be eaten at recently renovated Presidential Court, Sophie’s Place, and Morrill Dining facilities. Meal plan meals may also be eaten at select retail dining facilities. Certain restrictions apply at these locations. You also receive $300 bonus bucks per semester.

With the Any Ten Plan you can elect to eat all of your 10 meals exclusively at Varsity Inn Dining. Even when you designate to eat your 10 meals only at Varsity Inn Dining, your bonus bucks are available for use at any Dining Services’ facility on campus.

The Varsity Inn Fifteen Plan
Fifteen meals per week are provided to be eaten exclusively at Varsity Inn Dining. These 15 meals include breakfast, lunch, and dinner, Monday through Friday. Bonus bucks are not included with the Varsity Inn Fifteen Plan.

Rates subject to final University approval.

Local sales tax is added to the price of off campus meal plans.

The meal plan contract covers the entire academic year (i.e. fall and spring semesters). Meal plan is not valid between semesters and during Spring Break.

Meal week begins on Monday and ends on Sunday.

Bonus bucks may be used whenever you choose at any Dining Services’ facility on campus, including convenience stores. Unused bonus bucks are forfeited at the end of the semester.

DII Customer Service Center
DII maintains a Customer Service Center that centrally locates all contact points for walk-in computer support. When students need to
get an internet account, get an ethernet card installed, register for an email account, have their UNIX password reset, retrieve portions of a research paper from a virus-infected diskette, learn how to construct Web pages, or learn how to download or transfer files across the network, they can come to Aconda Court at the corner of Volunteer and Cumberland.

Walk-in Consulting
The walk-in consulting center devotes its time to solving problems and teaching. Assistance is given on Web page construction, the use of scanned hardware and software, and uploading files and scanned images to a Web page. Students can come to the consulting center to register for an email account or to get assistance with UNIX password problems. Users are taught how to Telnet, how to download, and how to transfer files across the network. The cost of these services is below that of an off-campus vendor and is further reduced for students by the Technology Fee. The Enhanced Remote Access office is located in room 103 of Aconda Court at the corner of Volunteer and Cumberland. The ERA office personnel will help you set up your account as well as provide technical assistance either over the phone or for walk-in customers.

Dorm Ethernet Card Installation
DII has wired every dorm room on campus for network access. Each network port in the rooms is a 10Mps dedicated Ethernet connection. Students living in the dorms with network capable computers will be connected free of charge. Students with computers which do not have network cards installed may obtain a network card at a reduced price. Technicians are available to install the network card and communications software free of charge.

Computer-Based Training
Computer-Based Training (CBT) is a self-paced series of interactive, WEB delivered, learn-as-you-go courses offered on many computing topics. CBT offers courses for Microsoft products (Word, Excel, etc.), Lotus Notes (database management, etc.), Internet topics (Internet basics, How to create a Web page, etc.), and more advanced topics, such as JavaScript, Visual Basic, object-oriented techniques, and open systems. There are over 500 courses available. This training is free to UTK students. For registration and access to the CBT courses on the WEB go to DII.UTK.EDU and click on CBT.

Statistical and Computational Consulting Center
The mission of the Center is to enhance the quality of research by effectively applying statistical and computing techniques. UT students, faculty, and staff, as well as other organizations and individuals are encouraged to use the services of the Statistical and Consulting Center. The Technology Fee covers the cost of our services for up to two hours per month (10 hours per semester). Beyond that, the fee provides a subsidized rate of $20 per hour.

DII WEB site and Documentation
The DII WEB site is located at DII.UTK.EDU. The DII WEB page provides you with access to information about, and access to, the many DII technology services that are available. On-line and printed documents describe use of resources available to students by the Technology Fee. The Enhanced Remote Access office is located in room 103 of Aconda Court at the corner of Volunteer and Cumberland. The ERA office personnel will help you set up your account as well as provide technical assistance either over the phone or for walk-in customers.

Communications Software Distribution
DII distributes communications software to students through the Enhanced Remote Access office located in room 103 of Aconda Court. This software is free of charge. The software can be used to access the resources on the UT network and the Internet. Programs are provided for both PC and Macintosh computers and are available on CD. These software packages will allow you to check e-mail, surf the Web and transfer files.

Dorm Ethernet Card Installation
DII has wired every dorm room on campus for network access. Each network port in the rooms is a 10Mps dedicated Ethernet connection. Students living in the dorms with network capable computers will be connected free of charge. Students with computers which do not have network cards installed may obtain a network card at a reduced price. Technicians are available to install the network card and communications software free of charge.

Technology Training
Several courses are offered aimed at improving skills with the technology available at UT. Life Preserver: An Introduction to UT Computing, is offered several times each semester on supported application software and operating systems. Other courses include those about MS Office products, using the Internet and search engines, and Web Page Essentials which offers four levels of HTML training. There is also a series of courses on Adobe Photoshop.

Academic Advising
Academic advising is an additional service provided by the counselors. Tutoring: The program employs 35 experienced and knowledgeable undergraduate and graduate students who are trained to provide one-on-one tutoring in a wide range of 100, 200, and 300 level subjects. Students receive 2 to 3 hours of individualized assistance per week. Group tutoring is also available.

Mentoring: A series of structured cultural and social events is scheduled for selected EAP students centered around the need to develop networking skills. Citizens of the Knoxville metropolitan community are invited to share with students.

Instruction: EAP offers special sections of selected classes that have limited class size (25), increased number of class meetings, with empathetic faculty for students who have a need for the personal touch.

Mathematics 123 - Finite Mathematics
Mathematics 125 - Basic Calculus
Biology 101, 102 - Human Kind In a Biotic World
Chemistry 120, 130 - General Chemistry

RONALD MCNAIR POST-BACCALAUREATE ACHIEVEMENT PROGRAM
The Ronald McNair Program is designed to encourage and facilitate doctoral studies by first generation college students, low income, handicapped, and students from under-represented groups in the fields of agriculture, engineering, biology, chemistry, computer science, microbiology, math, physics, statistics, anthropology, psychology and other related fields of study. The McNair Program provides comprehensive student needs assessment and a paid eight-week summer research internship ($2,400). In addition, it provides students six hours of academic credit (summer coursework in oral and written communications, statistics, and research techniques), graduate survival skills seminars, interaction with researchers, housing, meals, and travel allowances, graduate placement services, and long term contact and follow-up. The program also operates an academic year component which offers graduate school workshops, Graduate Record Examination preparation seminars, and graduate school visitation tours.

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For additional information, offices are located at 201 Aconda Court, or phone 974-7900.

FRATERNITIES AND SORORITIES
Greek Life at the University of Tennessee includes 24 social fraternities and 17 social sororities. These groups are coordinated by the Interfraternity Council and Panhellenic Council, respectively. These organizations are dedicated to the development of individual potential, emphasizing sound scholarship and the interests and talents of their members. Fraternities and sororities foster a balanced program of social activities and service projects within both the university and the community. Greek organizations are open to new members throughout the school year and encourage interested men and women to acquaint themselves with the Greek system at any time.
HEARING AND SPEECH SERVICES

The Hearing and Speech Center, located at 1600 Patton Manning Pass, offers complete diagnostic and treatment services to all University students with speech and language disorders/differences and/or hearing disorders. Services are available to anyone who has paid the full University Programs and Services Fee or, if taking fewer than nine hours, for any student who has paid the optional student health service fee.

The Center also functions as a clinical observation and education facility for students majoring in Speech-Language Pathology or Audiology. It also serves as a community hearing and speech center providing diagnostic and treatment services to all age groups exhibiting communication disorders/differences.

The Center is accredited by the American Speech-Language-Hearing Association Professional Services Board.

HOUSING

The University strives to maintain convenient and comfortable residence hall facilities which are available to all single students at a reasonable cost. The University provides excellent study facilities, including computer rooms, and are all within easy walking distance of classrooms and other university facilities.

On-campus housing provides an atmosphere which accommodates academic achievement and personal development and it is therefore recommended that all students reside in University housing. All students who are not living with a parent or guardian are required to live in University housing.

Housing contracts are a commitment for the academic year, or for shorter periods if the student enters the University during spring. A Housing Application must be completed and submitted as a part of the Application for Admission. Residence Hall assignments for the academic year are made in the late spring and the summer. The student must be admitted to the University prior to being assigned. If a student withdraws from the University, the housing contract is cancelled in accord with policies stated in the contract. Students assigned to residence halls desiring a meal plan will be issued contracts for both room and meals. A contract for housing signed by a student is binding for the term of contract and is rigidly enforced by the University.

Additional information pertaining to single student housing may be obtained from the Department of University Housing, 405 Student Services Building, The University of Tennessee, Knoxville, Tennessee 37996-0241.

Off-Campus Housing: Students living in off-campus housing should be aware of the same rules of conduct and standards that are applicable to all students. The University will not inspect or approve these facilities. Terms and conditions for the rental of off-campus housing are between the student and the landlord.

Graduate Students: Single graduate students may be assigned to the residence halls or the single student apartments.

For information concerning University residence facilities, please refer to the appropriate paragraphs above describing Undergraduate Students and Off-Campus Housing.

MARRIED STUDENTS: The University maintains modern apartment facilities in several locations for married students with families. In addition, single graduate students are accommodated on a space available basis. Information and application for these facilities may be secured from the Department of University Housing, The University of Tennessee, Knoxville, Tennessee 37996-0241.

MINORITY STUDENT AFFAIRS

The Office of Minority Student Affairs is housed in a four-story, free standing structure—The Black Cultural Center. The Office serves as a link between the University and its minority student population. The Office, located at 812 Volunteer Boulevard, provides academic, educational, social, and cultural programs to assist with the academic performance and retention of African-American students.

Programming through the Office includes mentorship programs for freshmen and upperclassmen, academic support, leadership opportunities, graduate networking, and workshops for all students on a variety of academic, intellectual, and social topics. Through the Office, students learn to share ideas and embrace a sense of community.

OAK RIDGE ASSOCIATED UNIVERSITIES (ORAU)

Since 1946, students and faculty of The University of Tennessee have benefited from its membership in Oak Ridge Associated Universities (ORAU), a consortium of colleges and universities and a management and operating contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with DOE and other institutions to help its students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Through the Oak Ridge Institute for Science and Education, the DOE facility that ORAU manages, undergraduates, graduates, postgraduates, as well as faculty enjoy access to a multitude of opportunities for study and research. Students can participate in programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and math applications. Appointments and program length range from one month to four years. Many of these programs are especially designed to increase the numbers of underrepresented minority students pursuing degrees in science- and engineering-related disciplines. A complete listing of these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the Resource Guide and the Minority Research and Education Programs brochure, which are available by calling the contacts below.

The Office of University, Industry, and Government Alliances (UIGA) seeks opportunities for collaborative research and development alliances among ORAU's members, private industry, and major federal facilities. Current alliances include the Southern Association for High Energy Research, the Bioelectromagnetics Research Consortium, High Performance Computing, Bioprocessing, Pan American Association for Physics, Materials Science Forum, and the U.S. International initiatives in support of the New Independent States in Central and Eastern Europe. Other UIGA activities include the sponsorship of conferences and workshops, the Visiting Scholars program, and the Junior Faculty Enhancement Awards. A copy of Especially for Members, which details UIGA's programs, is available from the contacts below.

For more information about ORAU and its programs, contact Dr. Frank Harris, ORAU Council member, at (423) 974-6841; or contact Ann H. Patton, ORAU Corporate Secretary, at (865) 575-3306.

PARKING AND VEHICLE OPERATION

The University of Tennessee endeavors to provide adequate facilities for vehicles operated by students and staff. However, areas available for parking are necessarily limited. To reduce traffic congestion within the campus area, large student parking areas are located on the perimeter of the campus. Presently, free bus service is provided from the Main Campus to the Agriculture Campus and Perimeter Lot located off Concord Street behind Tyson Park. Also, bus service is provided to UT Family and Graduate Housing Units at a nominal fee.

Each person who operates a motor vehicle in connection with attendance or employment at the University must register that vehicle with the Parking Services Office. THERE IS NO CHARGE FOR VEHICLE REGISTRATION; however, a parking permit is required for parking on all University lots. Street, parking structures, or leased lots with the following exceptions:

1. Staff and students with current UT Knoxville motor vehicle registration tags in their vehicles may park in any unreserved area (EXCEPT THOSE AROUND RESIDENCE HALLS) between the hours of 10 p.m. and 7 a.m., Monday through Friday, and 12 noon Saturday to 7 a.m. Monday.

2. General parking is permitted in staff areas around the residence halls between 5 p.m. and 3 a.m. After this time, vehicles without permits for these areas may be towed.

3. Staff and students with current UT Knoxville parking permits may park in unreserved staff areas around the academic buildings from 5 p.m. to 7 a.m.

4. Overnight parking is not permitted in the Student Commuter Parking Areas or in Student Aquatic Center Parking Area.

5. At times, certain areas will be reserved for parking for special events, such as athletic events, conferences, etc. Parking for these events will be by special parking permit for the specific event.

A University Traffic and Parking Authority determines the parking policy, traffic regulations, and fees. This information is published each year in the "University Traffic and Parking Regulations" and is available at the Parking Services Office 24 University Center, 2121 Stephenson Drive; at the Campus Information Center at Circle Park; and at the vehicle point of registration.

PROBATION SERVICES

The Office of Probation Services has responsibility for supervising all students placed on Disciplinary Probation for violations of the University Standards of Conduct. This may include ongoing meetings and/or referral to other campus or external agencies. The office is located in Suite 409 of the Student Services Building.

RELIGIOUS RESOURCES

The University, established by a government that recognizes no distinction among religious beliefs, seeks neither to promote any creed nor to exclude any. However, it will always be diligent in protecting the spiritual life of its students in part through its work with the Campus Ministers Council.
STUDENT COUNSELING SERVICES CENTER

The Student Counseling Services Center provides services designed to help students with educational, vocational, personal, and social problems. Professional counselors work with the student in a setting that allows confidential discussion of the student's concerns. In addition, various groups are employed to meet the developmental needs of the students. These group settings provide the opportunity to share and learn from others and improve specific skills.

The Center also works with faculty and staff to develop educational programs and projects to meet the needs of various groups at the University.

First-time users of the Counseling Center may choose during our walk-in hours, which are 10:00-11:30 a.m. and 1:00-3:30 p.m., Monday-Friday. If these times are not available in the student's schedule, they may call the Center for a convenient time. Anyone in crisis is seen immediately at the Center during the week, Monday-Friday from 8:00 a.m. to 5:00 p.m.

The Counseling Center is located at 900 Volunteer Boulevard. Phone number: (865) 974-2196. Web address: http://web.utk.edu/~counsel/

STUDENT GOVERNMENT ASSOCIATION

The Student Government Association (SGA) is composed of the Student Senate, the Undergraduate Academic Council, the Graduate Student Association, Student Services Committees, and the Freshman Council. SGA is the governing body of the students at UT.

Some objectives are to provide a vehicle for responsible and effective student participation in student life and to promote the recognition of student rights and responsibilities.

Each spring term, general campus elections are conducted to elect the President and Vice-President of the student body and the members of the three elected branches of the SGA. Student Senate members are elected to represent geographical areas of the campus. The Undergraduate Academic Council and Graduate Student Association representatives are elected from the academic colleges and graduate student programs, respectively.

Offices of the SGA are located on the third floor of the University Center.

STUDENT HEALTH SERVICE

Health services provided by the University are available to any student who has paid the health fee (either through paying the full University Program and Services Fee or, if taking fewer than 9 but at least 3 hours, paying the optional health fee). These out-patient services are available continually throughout every term.

The Health Service has a regular staff of primary care physicians, nurses, laboratory, and x-ray technicians of Tennessee licensure. Outpatient services are in the fields of family practice, internal medicine, pediatrics, sports medicine, and psychiatry are available on a full-time basis while specialty consultants in dermatology, surgery, and gynecology are available on campus through referrals by a staff physician. Care beyond that provided by the regular staff can be arranged. Those students requiring allergy injections may arrange to receive them at the Clinic.

Students traveling abroad may receive information, health alerts, and immunizations through the Travel Clinic (974-8647).

Most all medical services at the campus clinic are provided to eligible students at no additional cost.

The primary clinic at 1816 Andy Holt Avenue maintains scheduled daytime hours Monday through Friday. Urgent care needs may be handled on a walk-in basis, appointments should be made in most instances. (Appointment line: 974-3643). After-hours care (nights, weekends, and holidays) is available through the emergency room at the University of Tennessee Memorial Hospital; insurance reimbursement is accepted as payment in full for all services except inpatient care and specialty consultation. Transportation service for the campus is provided by the Campus Police and the Escort Van Service.

The State of Tennessee requires that all students born after January 1, 1957 must provide proof of immunization with TWO doses of Measles, Mumps, and Rubella vaccine for attendance to all universities and colleges. Additional documentation must be provided to the Student Health Service. In addition, the University of Tennessee Student Health Service recommends that entering college students assure immunity to Tetanus/Diphtheria, Polio, Hepatitis B, and Chicken Pox. The American College Health Association recommends that students, particularly freshmen living on campus, consider receiving meningitis immunizations.

Students requiring hospitalization are generally admitted by an appropriate specialist to the University of Tennessee Memorial Hospital unless other arrangements are desired. Since inpatient care is sometimes necessary, it is important for the student to have hospitalization insurance. Student group health insurance is available and may be purchased at the beginning of each term.

Health Service personnel will cooperate with students and family physicians in ensuring the continuity of quality health care during the university career.

STUDENT JUDICIAL AFFAIRS

The Office of Student Judicial Affairs has primary responsibility for processing allegations of student misconduct. Personnel within this office serve as advisors to, and administrators of, the student judicial system and when necessary, initiate appropriate disciplinary proceedings. The office is located in Suite 409 of the Student Services Building.

STUDENT ORGANIZATIONS

On campus there are a large number of student chapters of professional organizations, special interest clubs, and other extracurricular organizations. These organizations provide broad opportunities for student participation.

A listing of all student organizations is found in Hilltopics, the student telephone directory, and on the Dean of Students' web site. Student organizations must be registered through the Office of the Dean of Students in the fall of each year and update their file each semester.

STUDENT ORIENTATION

This office is dedicated to helping new student adjust to the University setting. It informs students of general, personal, and academic issues and assists students to develop relationships with peers, faculty, and staff. The office is responsible for the orientation program, specifically designed for the fall-term new student, as well as orientation programs for freshmen and transfer students presented prior to the beginning of each term. The office is located in Suite 412 Student Services Building.

STUDENT PUBLICATIONS

Three editorially independent student publications are printed during each school year to serve as sources of information for students, to report the many events that affect the campus community, and to record the year's activities.

The Daily Beacon, a student newspaper, The Volunteer, yearbook of campus activities, and The Phoenix, University literary/art magazine, are sponsored by the University of Tennessee Student Publications Board.

STUDENT RIGHTS AND RESPONSIBILITIES

By registering at the University, the student neither loses the rights nor escapes the duties of a citizen. Enjoying greater opportunities than the average citizen, the University student has greater responsibilities. Each student's personal decisions should be conducted in a context of mutual respect for the rights and privileges of others. It is further expected that students will demonstrate respect for the law and for the necessity of orderly conduct in the affairs of the community.

Students are responsible for being fully acquainted with the University catalog, handbook, and other regulations pertaining to students and for complying with them in the interest of orderly and productive community.

The student handbook is published, mailed, and distributed annually and is available on-line at the Dean of Students' web site so that students are aware of the University Standards of Conduct and all disciplinary regulations and procedures. Since conduct and actions will be measured on an adult standard, students should understand that they assume full responsibility for the consequences of their actions and behavior.

The academic community will be judged in large measure by the actions of its members. Therefore, it is incumbent upon students to include the implications for their community in their criteria for determining appropriate behavior. Failure or refusal to comply with the rules and policies established by the University may subject the offender to disciplinary action up to and including permanent dismissal from the University.

WOMEN'S CENTER

The Women's Center provides essential information and referral services to UT students, staff, and faculty as well as the Knoxville community. The library's specialized collection provides books, journals, and brochures about issues and concerns of women from both a cur-
The University of Tennessee

The purpose of the University Programs and Services Fee is to provide non-instructional facilities and programs of an educational, cultural, social, recreational, and service nature for students. The student health fee is included in the full-time programs and services fee. Refer to Student Health Insurance and Student Health Services for additional information.

All students enrolled in excess of eight semester hours per term are assessed a Program and Services Fee of $150 per semester. Part-time students taking fewer than nine semester hours will be assessed at the rate of $10 per semester hour, or a fraction thereof; minimum charge $10.

Graduate, teaching, and research assistants, teaching associates and fellowship students who may have a waiver of fees (tuition and/or maintenance) must pay the appropriate University Programs and Services Fee and late payment fee, if applicable.

Knoxville campus students taking a course load of 6-8 hours may elect to pay the full Programs and Services Fee.

Knoxville campus students taking 5-3 hours may elect to pay the student health fee ($48 for fall and spring, $36 for summer) plus the appropriate part-time Programs and Services Fee. Students taking 6 to 8 hours may also elect to pay the student health fee ($48 for fall and spring, $36 for summer) plus the appropriate part-time Programs and Services Fee up to the maximum of $150.

The purpose of the Technology Fee is to provide all students with improved access to the technological infrastructure, resources, and services at UTK.

Graduate, teaching, and research assistants, teaching associates and fellowship students, who may have a waiver of fees (tuition and/or maintenance), must pay the appropriate Technology Fee.

The Technology Fee is mandatory and may be refunded on the same percentage scale as maintenance and tuition charges.

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PROFICIENCY FEES

Fees for proficiency examinations are $5 per hour credit for undergraduates and $7 per hour credit for graduates. See Proficiency Examinations for additional information.

FEES FOR COURSES NOT TAKEN FOR CREDIT

Fees for courses audited are the same as for courses taken for credit. For fee purposes, courses listed for 0 credit hours are considered as one-hour courses.

DEFERRED PAYMENT PLAN SERVICE FEE ..... $20

A Deferred Payment Fee is assessed when payment of any part of a student's account is deferred.

It is the student's responsibility to pay all obligations promptly.

Students are responsible for charges and fees which are to be paid by a third party. Non-Person Entity (NPE) accounts which include government sponsored agencies and private organizations are automatically assessed a $10.00 billing fee when an authorization is presented to the Bursar's Office. Late authorizations and payments are subject to late payment fees and University schedule cancellation policies and procedures.

PRIORITY REGISTRATION

For a priority registered student, minimum payment or a Confirmation of Attendance Form is due by the published due date, whether or not the student has received a statement, or the student's schedule will be canceled. The due date will be published in the Timetable available from the Registration Office.

FINAL REGISTRATION LATE FEE

For a student who registers during Final Registration (including those who were canceled during Priority Registration) payment of fees or a Confirmation of Attendance Form must be turned in to one of the Bursar's Office locations by the Final Registration due date. This due date will be published in the Timetable available from the Registration Office. The Final Registration Late Fee is non-refundable.

Students who register during Final Registration will be assessed a late fee based on the following:

- Beginning of Final Registration through 1st full week of classes $30
- 2nd week of classes $40
- 3rd week of classes $50
- 4th week of classes $60
- After 4th week of classes $100

Doctoral students who must register retroactively for dissertation credit will be charged a late fee of $35 for each semester of retroactive registration.

REINSTATION FEE ..... $45

VoXpress accounts which have a balance one month prior to the end of a term will be assessed a reinstatement fee of $45, and grades will be withheld.

RETURNED CHECK SERVICE FEE

All checks are deposited the day they are received. A $20.00 service charge will be assessed when checks fail to clear the bank on which they are drawn. Returned checks will not be redepited. Cash or certified funds are required for payment of the returned check and service charges.

Any student who does not respond within 2 weeks from the date of the first notice may be assessed an additional $10 Service Charge.

Failure to clear returned checks will result in the forfeiture of all university services, including the receipt of grades, transcripts, schedule of classes and check cashing/writing services. Failure to pay may also result in additional late fees, collection costs, and reasonable attorney fees.

RETURNED CHECK POLICY

Payments made by checks which are returned by the bank adhere to the following returned check guidelines:

- First Returned Check—Check writing/check cashing privileges are suspended until the returned check and service charges are paid/cleared.
- Second Returned Check—If the second returned check is within one calendar year of the first returned check, check writing/check cashing privileges are suspended for six months from the date of the second check. If the second returned check is not within one calendar year of the first, check writing/check cashing privileges are suspended until the returned check and services are paid/cleared.

Third Returned Check—Check writing/check cashing privileges are suspended for one year from the date of the third check.

Fourth Returned Check—Check writing/check cashing privileges are permanently suspended.

 TUITION PAYMENT PLANS

All student fees are due in advance and should be paid in full by the due date shown on the VoXpress statement and listed in the Timetable of classes. Failure to receive a statement does not relieve the student of their obligation to pay on or before the due date.

DEFERRED PAYMENT POLICY

Students in good financial standing will be offered a deferment of up to 50% of the total charges on their VoXpress statement. The remaining balance for the term is due approximately 45 days after the first due date. All financial aid must be applied toward fees before a deferment will be considered. A deferred payment service fee is assessed when a portion of tuition, fees, and other charges are deferred with the approval of the Bursar's Office. An additional $35 late payment fee will be assessed if the second installment is not paid or before the due date. An additional $45 reinstatement fee will be assessed if fees are not paid by one month prior to the end of the term.

ROOM PLAN

Semester room charges may be paid in monthly installments. The first month's rent, plus a deposit of one month's rent is due at the beginning of the semester. The remaining installments are due every four weeks.

REFUNDS

Refunds are defined as the portion of maintenance and/or tuition and University housing/meal charges due as a rebate when a student withdraws or drops a portion of class hours. Refunds are also processed as a rebate on some fines/penalties paid such as parking fines, library fines, etc. Once a refund is determined to be appropriate, all amounts will be applied toward other outstanding fees/fines owed to the University at the time the refund is issued, including outstanding fees due on the Deferred Payment Plan. Any remaining refund balance will be mailed to the student's billing address.

Refunds on payments made by credit card will be applied back to the credit card.

REFUND/CHARGE OF FEES FOR WITHDRAWAL (DROP ALL CLASSES)

After payment of fees and/or a Confirmation of Attendance Form has been submitted by the student, withdrawal for the semester must be by official notification to the Withdrawal Office, 201 Student Services Building if an undergraduate student or The Graduate Admissions and Records Office, 218 Student Services Building if a graduate student. Failure to attend class does not automatically withdraw or drop a student from college or class.

The effective date of the withdrawal is the date the appropriate Withdrawal Office is notified by completion of the official withdrawal request form. The appropriate percentage of fees (maintenance and tuition and technology fees only) will be charged unless this action is completed by the close of the day before the first official day of classes for the semester.

Failure to notify the Withdrawal Office promptly when withdrawing could result in a larger assessment. Withdrawal does not cancel fees and charges already incurred. All charges and refunds will be made to the nearest even dollar.

The drop/add procedure cannot be used to withdraw from school for the semester.

For a regular academic semester, withdrawal within 5 business days beginning with the first class start date of the semester permits a 90% refund/10% charge. Specific dates will be printed in the Timetable of classes. Withdrawal between 6 and 10 business days beginning with the first class start date of the semester permits a 80% refund/20% charge. (NOTE: the "first class start date" is the date on which all classes begin). Withdrawal between 11 and 15 business days beginning with the first class start date of the semester permits a 60% refund/40% charge. Withdrawal between 16 and 20 business days beginning with the first class start date of the semester permits a 40% refund/60% charge. A 100% percent charge is assessed for courses dropped after 20 business days following the day before the first class start date. Refunds, in accordance with the withdrawal refund policy, will be made after the drop deadline.

FINANCIAL AID WITHDRAWALS (REPAYMENTS)

Repayments are defined as the portion of aid, received by a student after University direct charges have been paid by that aid, which must be repaid when a student withdraws or is dismissed. The amount of repayment is determined by the Refund/Charge percentages stated previously.

Refunds and repayment to the Title IV programs are determined according to the formula published in the current "Federal Student Financial Aid Handbook." The Financial Aid Office is responsible for calculating the amount of the refund and/or repayment and distributing the correct amount back to the financial aid program(s) according to the Refund/Repayment Allocation Policy.
Refund/Repayment Examples:

Dependent Student
Withdraw after three weeks into the semester
Received Subsidized Stafford loan of .......$1,680
(actual loan amount $1,750)
Tuition charge .............................................$686
Art fee of ......................................................$85
Institutional charge totaled .......................$778
Non-institutional (i.e., board, book/supplies, transportation, personal living expenses) totaled .................$3,142
Refund to Title IV program is ......................$1,372.58

Independent with No Dependents
Withdraw after three weeks into the semester
Received Stafford loan of .....................................$2,646
(actual loan amount $2,728)
Tuition charge ..................................................$933
Art fee of .........................................................$85
Institutional charge totaled ..............................$778
Non-institutional (i.e., board, book/supplies, transportation, personal living expenses) totaled .................$6,142
Refund to Title IV program is ......................$4,142

Dependent Student
Withdraw after nine weeks into the semester
Received Stafford loan of .....................................$1,215
(actual loan amount $1,266)
Tuition charge ..................................................$663
Art fee of .........................................................$85
Institutional charge totaled ..............................$778
Refund to Title IV program is ...................$656.18

Independent with Dependents
Withdraw after 12 weeks into semester
Received Stafford loan of .....................................$1,643
(actual loan amount $1,711)
Tuition charge ..................................................$691
Institutional charge totaled ..............................$778
Refund to Title IV program(s) .......................$0

NOTE: The above are examples of the current award year and are subject to change.

REFUND/CHARGE OF FEES FOR DROPPED COURSES (Continue With a Reduced Course Load)

Students pay fees computed at the appropriate semester-hour rate as indicated in the fee section. No charge is made for courses dropped during the first 8 business days following the day before the first semester class begins. An 80% refund/20% charge is made for courses dropped between 9 and 10 business days following the day before the first class begins. A 60% refund/40% charge is assessed for courses dropped between 11 and 15 business days following the day before the first class begins. A 40% refund/60% charge is assessed for courses dropped 15 to 20 business days following the day before the first class begins. A 100 percent charge is assessed for courses dropped after 20 business days following the day before the first class begins. Students who drop courses and continue with a reduced load are eligible for a refund only if the sum of charges computed at the semester-hour rate for the hours continued, plus the percentage assessed for the hours dropped, results in an amount less than that paid. A course on a student's schedule is officially dropped, and the drop becomes effective, on the date the change of registration form is processed or the date the drop was entered on the Registration telephone system. Any refund due for dropped courses will be made after the drop deadline.

SUMMER TERM FEES AND EXPENSES

Fees and expenses for the summer semester are the same as for other semesters during the academic year except for University Programs and Services Fees as previously mentioned.

Although the summer term is divided into sessions of varying lengths, tuition and fees are assessed on the regular semester-hour rate up to the maximum charge for a complete regular semester.

The refund policy covering withdrawal and dropped courses for the summer semester is based on the length of the term for the courses dropped during the first 8 business days of the semester.

WAIVER OF FEES

Graduate assistants, teaching assistants and associates, research assistants, staff and others whose fees are billed, prepaid, waived, or partially waived must Confirm their Attendance by making payment or signing a Confirmation of Attendance Form by the due date as published in the Timetable of classes or their schedule will be canceled. If an appointment terminates during the term, the student owes the appropriate fees from the termination date until the end of the term.

Graduate students are not eligible for UT employee spouse/dependent discounts.

ARRANGEMENT FOR BANKING WHILE AT UT KNOXVILLE

Banking arrangements can be made with Knoxville banks. Some Knoxville banks require a waiting period before honoring out-of-town checks. If the deposit is a personal check, new students who wish to open a local checking account are encouraged to deposit a certified check or cashier's check unless they can pay initial college expenses by a personal check on a bank account already fully established.

STUDENT FINANCIAL AID

The University of Tennessee offers a comprehensive program of financial aid to students who would not otherwise be able to afford to attend. Through these federal, state, and university programs, an eligible student may receive one or more types of assistance.

Families applying for financial assistance based upon financial need (grants, scholarships, loans and employment) must complete a Free Application for Federal Student Aid annually. Families desiring only a scholarship based on academics and/or merit are not required to complete any financial aid applications.

To receive aid from the major student aid programs, a student must have financial need, except for some of the loan programs. Students must also be a U.S. citizen or eligible non-citizen, have a valid social Security number, and have a high school diploma or General Education Development (GED) certificate, be enrolled or accepted for enrollment as a regular student working towards a degree or certificate in an eligible program, make satisfactory academic progress, sign a statement of educational purpose and a certification statement on overpayment and default, and register with the Selective Service. Students may not receive aid for correspondence or telecommunications courses unless they are part of an associate, bachelor's or graduate degree program.

When applying for financial aid the Free Application for Federal Financial Aid (FAFSA) must be completed. The information is used in a formula, established by the U.S. Congress, that calculates the Expected Family Contribution (EFC), an amount you and your family are expected to contribute towards your educational costs. Financial need is defined as the difference between the cost of attendance and a family's contribution towards these educational expenses.

Cost of Educational Expenses Minus Expected Family Contribution = Financial Need

UT offers three general types of financial aid: scholarships and grants, loans, and part-time employment. These may be awarded individually or in a combination according to the needs of the family and student.

For additional detailed information on application procedures, please contact the Financial Aid Office.

PRIORITY DATE FOR APPLICATIONS

Priority in awarding financial aid will be reserved for processed applications data received on or before the priority aid application deadline of March 1. UT is unable to meet full financial need for all applicants, therefore, requests for financial aid are processed on both a date priority and financial need basis.

TRANSFER STUDENTS

Mid-year transfer students must have a financial aid application (not to be confused with an academic transcript) sent to UT from all colleges and universities previously attended regardless of whether any aid was received. You can obtain this form from the schools you previously attended. Please follow the directions on the form.

SCHOLARSHIPS AND GRANTS

Scholarships. The UT scholarship program is made possible through the generosity of funds provided to the university from individuals, alumni, outside foundations, private business, and civic organizations. The majority of the scholarships programs are coordinated by the Financial Aid Office and are awarded based on demonstrated academic achievement and financial need. Some undergraduate scholarships are administered by individual colleges or departments may require a separate application.

The academic merit scholarship program makes awards based on academic achievement only. To compete for merit scholarships, a student must have all admissions application materials postmarked by January 15 and be admitted or currently enrolled by February 1. No application form is necessary, except for the Honor Program Scholarships and the College and Departmental Scholarships. Academic achievement for entering Freshman students is judged by the applicant's high school record and scores on the American College Testing (ACT) or Scholastic Aptitude Test (SAT). Academic Achievement for currently enrolled and transfer students is judged by the applicant's cumulative grade point average.

All scholarships are highly competitive and there are not sufficient funds to assist all qualified students. Most scholarships are awarded...
for one year, with the recipients competing for scholarships each year of enrollment.

Federal Pell Grants. Pell Grants are awarded only to undergraduate students who have not earned a bachelor's or professional degree. A Federal Pell Grant does not have to be repaid. All undergraduates applying for need based financial aid from the University must apply for a Federal Pell Grant.

Federal Supplemental Educational Opportunity Grants. This federal grant is for undergraduate students with exceptional need and priority is given to students who receive a Federal Pell Grant. Students who are full-time may apply. Federal SEOG funds are limited, and do not require repayment.

The Tennessee Student Assistance Award is designed to further the educational opportunities to residents of the state who display financial need. Awards cover approximately one-half of the maintenance fees for Fall and Spring terms.

More information may be obtained by writing to the Tennessee Student Assistance Corporation, 404 James Robertson Parkway, Suite 1950, Parkway Towers, Nashville, Tennessee 37243.

STUDENT LOANS

Federal Perkins Loan. A low interest loan (currently 5%) for students with exceptional financial need as determined by the school. For undergraduate students, priority is given to Federal Pell Grant eligible students. The loan will be issued through the Financial Aid Office, disbursed and repaid to the Student Loan Department in the University of Tennessee, Knoxville financial aid office.

Eligibility for the Federal Perkins Loan is determined when the student applies for federal aid using the Free Application for Federal Student Aid. Students will be notified, at the time of award, of the maximum loan eligibility available for undergraduate study or graduate/professional study during an academic year. The total debt a student can accumulate in undergraduate study is $20,000 and in graduate/professional study (including undergraduate and graduate costs) $40,000. Minimum payment is currently $40 per month.

Loan repayment and interest accrual is deferred as long as the borrower remains in at least half-time attendance at an accredited institution of higher education. The borrower has a grace period of nine (9) months after graduation, withdrawal, or less than half-time attendance. Certain circumstances may allow for a borrower to defer payments or cancel a portion of the loan. Deferments and cancellations must be applied for through the Student Loan Department in the University of Tennessee Bursar's Office. The above regulations and provisions of the Federal Perkins Loan Program are correct as of March 1998 and are subject to change by federal legislation or regulation.

The University of Tennessee Student Loan. Student loans from University sources are available to currently enrolled students with a 2.0 or higher cumulative grade point average. A loan of an annual maximum of 1 and 1/2 times the amount of fees paid per term can be extended. One surety or cosigner who meets specific credit requirements is required for each promissory note and a new promissory note must be completed each year a loan is received. The interest rate is 6 percent per year payable on July 1 of each year. Repayment of the amount borrowed plus any unpaid accrued interest shall begin six (6) months following graduation, withdrawal, or when the student ceases to carry at least half-time attendance. Minimum monthly installments will be $30 or 1/26th of the amount borrowed, whichever is greater. The borrower may choose to pay, without penalty, all or any part of the loan plus interest before entering the normal repayment period. The above regulations and provisions are correct as of March 1998 and are subject to change by action of the Board of Trustees.

Federal Stafford Loan Program. This is a low interest loan made by a lender such as a bank, credit union, or savings and loan association. These loans are insured by a Guaranty agency in each state and reinsured by the Federal Government.

To receive a Federal Stafford Loan, a student must apply for federal aid with the Free Application for Federal Student Aid. The student must be in good standing with the University and must be enrolled or admitted in at least a half-time degree program. Federal Stafford loans are available to students on need based eligibility and non-need based circumstances. Students determined eligible for the Subsidized, or need-based, Stafford Loan program will have interest subsidies paid by the federal government to the lending institution while the borrower is in school. Unsubsidized (non-need-based) Stafford loans are available to students regardless of need. Interest will accrue while the borrower of a subsidized Stafford loan is in school. The student has the option to pay this interest on a monthly or quarterly basis, or allow it to accrue and capitalize.

Two disbursements of the loan will be made to the borrower at the time of enrollment and middle of the loan period. Some first year undergraduate students who are first time Stafford Loan borrowers will not receive the first loan disbursement until 30 days after the day the program of study begins.

Some first time borrowers must receive Entrance Interview Loan Counseling at the Financial Aid Office before receiving the first disbursement of loan funds. Charges of up to 3% will be deducted from the loan disbursements for federal government and bank loan costs. A student may borrow up to a total outstanding debt of $23,000 as a dependent undergraduate and $46,000 as independent undergraduate. For graduate or professional study a student may borrow up to a total debt of $138,500 ($65,500 in subsidized Federal Stafford Loan and $73,000 in Unsubsidized Federal Stafford Loan).

Loan repayment amounts will be determined by the lending institution, and will begin no earlier than 6 months after graduation, withdrawal, or less than half-time enrollment. Certain circumstances may allow a borrower to defer payment or cancel a portion of a loan if requested by the borrower through the lending institution. The above regulations and provisions of the Stafford Loan Program are correct as of March 2000 and are subject to change by federal legislation or regulation.

PLUS Program. Federal PLUS loans are available to parents of dependent students enrolled at least half-time in a degree seeking program. This low interest loan program is available to students in good standing with the University. A PLUS disbursement on or after July 1, 1993 will have a variable interest rate which is determined each June (check with your lending institution for the current interest rate). Charges of up to 3% will also be deducted from the loan disbursements for federal government and bank loan costs.

A Federal PLUS may be requested by the parent borrower for up to the student's cost of education minus any estimated financial aid received. Funds will be disbursed to the school, made co-payable to the parent borrower and the school. PLUS loans are subject to credit checks at the lending institution. Repayment of principal and interest begins sixty (60) days after the final loan disbursement. Certain circumstances may allow the lending institution to defer payment or cancel a portion of a loan if requested by the borrower. The above regulations and provisions of the PLUS program is correct as of March 2000 and are subject to change by federal legislation or regulation.

STUDENT EMPLOYMENT

Many students are employed part-time during their student years in order to supplement financial aid or other sources of support while at the University. Such employment offers valuable aid and develops good working skills. However, the more time spent in employment the less there is available for preparing for classes and involvement in campus life, two of the most important factors contributing to academic success. For those who find employment while classes are in session to be necessary, the Financial Aid Office administers two employment programs:

Federal Work-Study. The federal work program provides jobs for students who have financial need and who must earn a part of their educational expenses. Eligible students are placed in jobs on campus where they can work a maximum of 20 hours per week. Jobs are available in a wide variety of academic departments and other campus units. The rate of pay is above federal minimum wage.

Student Employment Service operates as a central referral agency for all UT students who are eligible U.S. residents. It coordinates listings of part-time employment from both University and private employers with the requests of students seeking employment. Part-time jobs average from 15 to 20 hours per week.
ADMISSION TO THE UNIVERSITY OF TENNESSEE

As the state's largest and most comprehensive university, the University of Tennessee seeks to provide high quality educational programs for all students who have the academic ability and motivation to adapt to and profit from a baccalaureate education. Similar opportunities are available at the graduate level, see the Graduate Catalog. While the majority of students at UT are residents of the State of Tennessee, the university welcomes qualified students from other states and from outside the United States. Students from a variety of cultural backgrounds and experience find that, after some years in the working world, they are both willing and able to achieve a high level of attainment. This achievement is of vital importance to the student, the University, and the State. The student's motivation must be sufficiently strong and the University must provide the necessary attention of concerned teachers and advisors. UT encourages persons whose interests and goals have changed with time. Many adults who have little or no college work find that, after some years in the working world, they are both willing and able to take advantage of the study opportunities provided by a major university such as UT. Others who have completed a program or study or have received a degree may desire to expand their knowledge or prepare for different vocations and may re-enroll or transfer previous credits to UT. Previous indication of sound academic preparation is expected of any applicant.

REQUIREMENTS FOR ADMISSION AS A UT UNDERGRADUATE STUDENT

Anyone interested in attending UT as an undergraduate student should contact the Admissions Office. Return of a complete application form and transcripts to the Admissions Office results in the formation of an admissions file for each applicant. When a file is complete, an admissions decision is made, and the applicant is notified by mail.

DEADLINES FOR APPLICATIONS

Fall Semester: For freshman applicants, all application materials, the official high school transcript complete through six semesters (junior year), and official test scores must be postmarked by January 15. Priority admissions decisions are given to applicants' files completed by November 1 of the high school senior year. Any applicant who wishes to be considered for scholarships must have the admissions application and all supporting materials postmarked by January 15. Transfer and readmission applicants for Fall semester must submit an application and supporting documentation by June 1.

Spring Semester/Summer Term: Completed application materials and supporting credentials for first time freshmen, transfer, and re-admission students must be received in the Office of Admissions by the following dates: November 1 for Spring semester freshman transfers; January 15 for Summer term freshmen; and April 1 for Summer term transfers.

FRESHMAN ADMISSION

For admission purposes, a student is classified as an entering freshman if:

1. the student has graduated from high school; and
2. the total of attempted college-level credit work at an accredited institution after graduation from high school has been less than 12 hours, excluding summer school and college courses taken while still in high school.

Students are encouraged to apply as early as possible. Timely admission contributes to better orientation, course planning, class scheduling and financial aid consideration. High school students planning to apply as freshmen should submit applications as soon as possible after completion of the junior year. Applications for admission are available from many secondary school guidance/counseling offices and from the Office of Admissions, UT, 320 Student Services, Knoxville, TN 37996-0230.

The University seeks to admit those students who can provide evidence of the intellectual performance and potential that will permit them to benefit from UT programs. In 1999, the freshman class had an average ACT score of 23.8 and a high school average of 3.2 on a 4.0 scale.

A prospective student must have completed at least:

- four (4) units of English;
- three (3) units of math including two (2) units of algebra and one (1) unit of advanced math, trigonometry, geometry, or calculus (The College of Engineering requires 3 1/2 years of math including trigonometry and geometry as prerequisites for all courses. Students intending to major in the College of Business Administration should also take 3 1/2 years of math including trigonometry and geometry in preparation for the collegiate math requirement.)
- two (2) units of natural sciences including at least one (1) unit of biology, chemistry, or physics;
- one (1) unit of European or world history or world geography;
- two (2) units of a single foreign language.

Applicants with foreign language deficiencies from those high schools that do not offer the required two years of a single foreign language may, with proper approvals, be admitted to the University. However, this deficiency must be removed during the first two years (60 semester hours) of University work; courses taken to satisfy foreign language deficiencies may be taken only as electives.

In addition to the application form, a freshman applicant must:

1. Have a final transcript of all high school credits mailed to the Admissions Office directly from the high school. Transcripts carried by the student are not acceptable for the admissions file. If any courses have been taken for college credit, the institution(s) granting credit must be contacted and asked to send an official transcript directly to the UT Admissions Office.
2. Have the score report of the American College Testing program (ACT) or the Scholastic Aptitude Test (SAT) sent to the Admissions Office directly from the high school or testing agency.
3. Pay a nonrefundable application fee of $25.00.
4. Submit any additional items and information requested in the application materials or by the Office of Admissions.

General Education Development (GED)

Students who have achieved a high school diploma through the General Education Development (GED) Test must also have the GED scores sent directly from the testing center to the University. The GED score is evaluated with other factors, but applicants must have total average GED scores of at least 50 to be considered for admission. Applicants with GED scores are expected to meet high school unit requirements unless they graduated from high school prior to 1989 or unless they qualify as re-entry student applicants who are otherwise academically well-prepared.

Graduates of Non-Approved High Schools and Home-Schooled Students

Graduates of non-approved high schools or home schools who apply for admission as first-time freshmen at UT must provide an official high school transcript and, if requested, course syllabi; meet a high school grade point average of 2.00 for in-state applicants and 2.25 for out-of-state applicants; a 21 ACT or 990 SAT score for in-state and non-resident out-of-state applicants; and meet the required high school units. Applicants may present a General Education Development (GED) certificate with a minimum score of 50 and meet the requirements for high school courses.

Advanced Placement Examinations:

Freshmen admitted to UT may receive college credit based on performance on one or more of the Advanced Placements Examination offered each May by the College Entrance Examination Board in 16 subject areas. The tests are usually taken by high school students during their junior or senior year. Departments at UT that grant advanced placement credit for satisfactory test scores include Art, Biology, Chemistry, Computer Science, Economics, English, French, German, History, Latin, Mathematics, Music, Physics, Political Science, Psychology, Spanish and Statistics. The CEEB scores and test books on request to the Director of Admissions at UT sometime in June or July. Each participating department determines the acceptable score for credit. Information can be obtained from the Admissions Office or from the Arts and Sciences Advising Center.

ADMISSION TO THE SCHOOL OF ARCHITECTURE

The School of Architecture grants and encourages provisional admission at the time of admission to the University. The program of the School is carefully designed by stages, and students who are not ready for admission at the time of university admission should consult with an architect admissions counselor to plan a program that will include the required courses. Specific requirements for admission and progression are listed under the School of Architecture.

TRANSFER APPLICANTS

A student who has attempted 12 or more semester hours of college credit course work at one or more regionally accredited institutions of higher learning and does not qualify as a freshman applicant in the rules described above must apply for admission as a transfer student. Remedial, developmental, and vocational or technical courses do not qualify as college credit courses for transfer credit.

APPLICATION PROCESS:

1. A completed application for admission must be submitted to the Office of Admissions along with the $25 non-refundable application fee.

2. A complete and separate official transcript of all work from each college or university attended should be sent by each institution directly to the Office of Undergraduate Admissions, 320 Administration Building, UT, Knoxville, TN 37996-0230. Transcripts carried by the student or not directly received from the sending institution are unacceptable (although such documents may be used for advising purposes).

3. Complete high school transcripts should be sent by the high school directly to the Office of Undergraduate Admissions. Transfer students who have not taken the ACT or SAT are not required to do so.

GRADES

Only those courses in which at least a C was earned shall be eligible for transfer credit. Grades earned at other institutions are used only for admission, course placement and other academic decisions. In order to be considered for admission to UT, a transfer applicant must have a minimum of a 2.00 grade point average (on a 4-point scale) overall in college credit-bearing courses considered for transfer credit, and over all courses attempted. Transfer grade averages are calculated by UT and include both original and repeated coursework, regardless of the grade. The UT grade point average may differ from averages calculated by other institutions. Following enrollment at the University, only grades earned in coursework at UT will be used in determining continuation standards, graduation requirements and grade point average.

COURSE EVALUATION

Following the applicant's admission to the University, a transcript evaluation will be initiated by the Office of Admissions to determine which courses from other institutions are equivalent to courses at UT, and which courses do not transfer. Freshman English, Social Science, and other general education courses may be considered for transfer at the discretion of the Office of Admissions. Transfer students who have graduated from high school are required to complete the high school unit requirements within the first 30 semester hours at UT.

PROSPECTIVE TRANSFERS TO UT are encouraged to complete a sequence of related courses rather than transferring a single course from a series. Students at community or junior colleges, particularly within the State of Tennessee, are encouraged to complete the associate degree requirements prior to transferring to UT.

ARTICULATION AGREEMENTS

In addition, the University has special transfer articulation agreements with some Tennessee community colleges, leading to admission with junior standing in particular majors at UT. These transfer programs lead to the awarding of the associate degree by the specified community college and the baccalaureate degree by UT, provided the student successfully completes all of the courses required by the program and meets the grade point average requirements for that agreement. All other academic regulations of the degree-granting institution must also be satisfied. Details on specific programs are available from the Office of Undergraduate Admissions at UT, or from the specified community college.

INTERNATIONAL STUDENT APPLICANTS

All foreign nationals on non-immigrant visas are classified as international students whether they are applying to UT as freshmen or transfer students. In addition to the information below, additional information for international students is available from the Admissions Office or from the Center for International Education.

1. Evidence of English proficiency according to the following requirements for students whose first language is not English:

   a. Any applicant to the undergraduate program whose first language is not English must complete the TOEFL (Test of English as a Foreign Language) or similar test as required by the institution.
   b. The TOEFL score must be reported to the Office of Admissions at UT.
   c. The TOEFL score must be at least 525 (or 193 on the computer-based TOEFL).
   d. If the TOEFL score is below the required minimum, the student may be required to take the English Placement Test at UT.

   2. Certified copies of all official academic records. The records should include a list of courses of instruction in terms of years spent in school and types of subject matter covered, with grades earned in each subject.

   3. Evidence of English proficiency according to the following requirements for students whose first language is not English:

   a. Any applicant to the graduate program whose first language is not English must complete the TOEFL (Test of English as a Foreign Language) or similar test as required by the institution.
   b. The TOEFL score must be reported to the Office of Admissions at UT.
   c. The TOEFL score must be at least 525 (or 193 on the computer-based TOEFL).
   d. If the TOEFL score is below the required minimum, the student may be required to take the English Placement Test at UT.
requirements for freshman composition with a grade of C or better at an accredited college or university in the United States. Freshmen English for Foreign Students does not exempt a student from presenting a TOEFL score of at least 523.

d. A United States citizen or permanent resident whose first language is not English but who has graduated from a high school in a country whose first language is English, may be admitted with the minimum ACT English score of 21 (SAT verbal 510; 430 if taken prior to April, 1995) or TOEFL 193 (computer based) or 523 (paper based). Any other United States citizen or permanent resident whose first language is not English must conform to the regulations stated in a, b and c above.

4. Applicants from certain countries are required to make significant monetary deposit prior to issuance of Form I-20 to secure a student visa.

5. International students must enroll in the health and accident insurance plan provided by UT.

6. For international students, completed application forms and all required supporting credentials must be received in the Office of Admissions no later than the following dates: February 1 for Fall Semester; November 1 for Spring Semester; March 1 for Summer Term.

International students are subject to various enrollment limitation regulations comparable to those affecting U.S. citizens. The Admissions Office will notify any applicant of any applicable regulations in effect at the time of application.

FEES FOR SPONSORED INTERNATIONAL STUDENTS

An administrative management fee will be charged to sponsoring agencies of international students whose programs require special administrative management services beyond those normally provided. Fees are $250 per semester and $100 per summer session.

VISITING STUDENT APPLICANTS

A visiting student is one who is actively enrolled in a program at another accredited institution of higher learning but who desires to enroll temporarily at UT because of the availability of certain course work or because of temporary residence in the Knoxville area.

Visiting students are admitted for one semester only. Students transferring to UT must file an application for admission as a transfer student. Students desiring to attend UT on an interim basis for one semester only must submit a completed application and $25.00 non-refundable application fee and have a final letter of good standing sent directly to UT Admissions.

Since academic records will not be available at UT for visiting students, use of UT courses in a visiting student's degree program is the decision of the home institution. Academic advising will be limited to information about courses in which the student enrolls and may be obtained from the academic departments. Visiting students must have the required background (pre-requisites) and meet all other course requirements. Academic overloads will not be permitted.

RE-ENTRY STUDENT APPLICANTS

A re-entry student is one who has not been enrolled in school for three years or more prior to making application for admission to UT. Freshman re-entry students should have official high school transcript(s) submitted to the Admissions Office from high school. Transfer re-entry students should have high school transcript(s) and transcripts of all previous college work submitted directly from each institution to UT Admissions. ACT/SAT scores are not required for either freshman or transfer re-entry students. (Re-entry applicants with GED scores should refer to the GED section under FRESHMAN ADMISSION.)

Admissions decisions will be made on an individual basis. Exceptions to the admissions criteria may be made for those applicants who demonstrate sufficient preparation.

No applicant who has attended UT will be considered a re-entry student. Former UT students should follow readmissions procedures as described elsewhere in this catalog.

NON-DEGREE STUDENT APPLICANTS

Persons desiring to take courses for credit, but who do not intend to pursue a degree, should apply for non-degree status. The Admissions Office processes all applications, regardless of intended registration location. Non-degree students must show evidence of satisfactory preparation for the courses they wish to take, generally through a bachelor's degree. Ordinarily the high school class of a non-degree student must have graduated. Former University of Tennessee students and most other students may not be admitted in this category prior to the receipt of a bachelor's degree. Non-degree students whose native language is not English may be required to submit proof of English language competency as outlined in 3 under International Student Applicants.

If there is a change in educational goals leading to interest in a degree program, a non-degree student must meet all previously indicated transfer, admission, or college association requirements for admission to degree seeking status. No more than 60 semester hours of accumulated college credit (from all institutions attended) may be used by a non-degree student in any subsequent degree program at UT.

SENIOR AND DISABLED APPLICANTS

Persons 60 years of age or older and/or totally disabled persons who are residents of Tennessee may enroll without payment of fees if space is available in the individual class. Persons 65 years of age or older and/or totally disabled persons who are residents of Tennessee may enroll in courses for credit at reduced fees. Interested persons should inquire at the University of Tennessee Evening School, 451 Communications Building, during regular working hours.

ACADEMICALLY TALENTED HIGH SCHOOL STUDENTS

Academically talented high school students enrolled in grades 9, 10, 11, and 12 in public or private school in Tennessee may enroll and receive regular college credit from a Tennessee postsecondary institution if: (1) they receive the recommendation and approval of the high school principal, (2) they have a grade point average equivalent to 3.2 or higher on a 4.00 scale; and (3) such placement is a part of the student's planned Individual Educational Placement (IEP) as established by the multidisciplinary team process.

FRESHMAN EARLY-ADMISSION STUDENTS

Freshman early-admission students are those who have completed the junior year of high school, have a grade point average of at least 3.50 and have an ACT composite of 29 or above or SAT I of 1280 or above (1180 if taken prior to April, 1995). Application is subject to review and approval by the Director of Admissions following an interview. For additional information and scheduling of an interview, interested students should contact the Office of Admissions, 320 Student Services Building.

OTHER CONDITIONS

The following question appears on The University of Tennessee, Knoxville application for undergraduate admission and readmission: "Have you ever been arrested or convicted for a crime other than a minor traffic violation?" If yes, explain briefly. Every candidate for admission or readmission is required to respond accurately and thoroughly to this question. The University reserves the right to deny admission or readmission to candidates who, in its sole discretion, pose an unreasonable risk to the University community. The University also reserves the right to deny admission or readmission to any candidate refusing to provide a thorough and accurate response to this question and all other questions on the Admissions application. Subsequent discovery of false information may result in rescission of admission or readmission.

EXCEPTIONS TO ADMISSIONS REQUIREMENTS

The University requirements for the various categories of admission are thought to be reasonable and consistent with good educational practice. Thus, these requirements are not normally waived or modified for any applicant, except as specifically noted. However, unusual circumstances sometimes exist. If a potential student thinks that some part of the requirements for the category sought should not apply as stated, he/she should write to the Director of Admissions, stating clearly the specific circumstances prompting the appeal and what changes in the stated requirements are sought. The reply to this letter will indicate whether any exception to the requirements will be made, the reasons for the decision, and will describe any further action which the applicant might take. The Dean of Admissions and Records has the prerogative of making exceptions on the minimum criteria for applicants who do not show high aptitude in certain scholastic skills but show other indications of ability to progress through UT and earn a degree.

READMISSION

Submission of an application for readmission is required for a student previously seeking a degree who has withdrawn from UT, who has been away from a term other than the summer term or who has been academically dismissed. A readmissions applicant may be asked to attend an interview with the Coordinator of Readmissions or to appear before the Committee on Readmissions. (A student who previously attended as a non-degree student and wants to reenter as a degree seeking student must complete an application for undergraduate admission.)

A student who has attended another college or university since attending UT must have an official transcript sent to the University. A read-
Tennessee, 1807, chapter 64. Administrative 

1840, chapter 98, Section 5 and Public Acts of 

ADMISSIONS PURPOSES 
IN-STATE AND OUT-OF-STATE FOR THE 

sion to a professional program that is otherwise 

restricted primarily to Tennessee residents. 

not gain preferential priority in seeking admis-

sion to the University's pre-professional programs (law, 

in-state residency requirements stated above. 

nce from the State for short periods of time 

shall not affect the establishment of a residence. 

Domicile” shall mean a person’s true, 

fixed, and permanent home and place of habi-

tation; it is the place to which he intends to re-

main, and to which he or she returns to 

remain when he or she leaves without intending to es-

establish a new domicile elsewhere. 

“Parent” shall mean a person’s father or 

mother. If there is a non-parental guardian or 

legal custodian or an emancipated person, 

then “parent” shall mean such guardian or legal 

custodian; provided, that there are no circum-

stances indicating that such guardianship or 
custodianship was created primarily for the 

purpose of conferring the status of an in-state 

student on such unemancipated person. 

“Emancipated person” shall mean 

a person who is no longer in the care, custody 

and control of his or her parent. 

5) “Parent” shall mean a person’s father or 

mother. If there is a non-parental guardian or 

legal custodian or an emancipated person, 

then “parent” shall mean such guardian or legal 

custodian; provided, that there are not circum-

stances indicating that such guardianship or 
custodianship was created primarily for the 

purpose of conferring the status of an in-state 

student on such unemancipated person. 

6) “Continuous enrollment” shall mean 

enrollment at a public higher educational insti-
tution or institutions of the State for a normal academic 

year or years or the appropriate portion or por-
tions thereof; in no case shall enrollment be deemed 

continuous in the absence of full-time employment. 

Continuous enrollment shall be defined as enrollment 
in another educational institution or institutions for a 

normal academic year or years or the appropriate portion or 

portions thereof; in no case shall enrollment be deemed 

continuous. 

paragraph 2. DEFINITIONS. WHEREVER 
USED IN THESE REGULATIONS. 

1) Every person having his or her domicile 
in this State shall be classified “in-state” for fee 
purposes in the State of Tennessee at Martin if qualified for admission. 

2) Any nonresident student not domiciled in a county or another state residing in the State for the purpose of conferring the status of an in-state student shall be classified “out-of-state.” 

3) A person whose domicile is in a county or another state residing in the State for the purpose of conferring the status of an in-state student shall be classified “out-of-state.” 

4) “Parent” shall mean a person’s father or 
mother. If there is a non-parental guardian or 

legal custodian or an emancipated person, 

then “parent” shall mean such guardian or legal 
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stances indicating that such guardianship or 
custodianship was created primarily for the 

purpose of conferring the status of an in-state 

student on such unemancipated person.
students, faculty, and staff of the following University policy approved by the UT Board of Trustees on 21 June 1990.

EEO/TITLE IX/SECTION 504 STATEMENT

The University of Tennessee does not discriminate on the basis of race, sex, color, religion, national origin, age, handicap, or veteran status in the provision of educational opportunities or employment opportunities and benefits.

CREDIT HOURS, GRADES AND GRADE POINT AVERAGE

The basic unit of credit at the University of Tennessee is the semester hour. This normally represents one hour of lecture or recitation or two hours of laboratory work per week. Each course at the University carries a number of credit hours specified in the course description. At the completion of each course, a student will be assigned a grade reflecting the student's performance in the course.

Inquiries concerning Title IX and Section 504 should be directed to the Director of Affirmative Action, 405-D Andy Holt Tower, Knoxville, TN 37990-0144, 974-2486. Charges of violation of the above policy should also be directed to the Director of Affirmative Action.
**ACADEMIC POLICIES**

### UNDERGRADUATE GRADES

<table>
<thead>
<tr>
<th>Grade</th>
<th>Performance Level</th>
<th>Quality Points/Per Semester</th>
<th>Hour of Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>Excellent</td>
<td>4.0</td>
<td>4</td>
</tr>
<tr>
<td>A</td>
<td>Superior</td>
<td>3.5</td>
<td>3.5</td>
</tr>
<tr>
<td>A-</td>
<td>Very Good</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>B-</td>
<td>Fair</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>Unsatisfactory</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>C+</td>
<td>Satisfactory</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**GRADES OF INCOMPLETE**

Under extraordinary circumstances and at the discretion of the instructor, an "I" (incomplete) may be assigned to a student whose work is satisfactory but who has not completed a portion of the course. In addition, a grade of "W" may be assigned if a student cannot fulfill the requirements for a course because of an inability to communicate in writing. (See Writing Deficiency for more information about the "W" grade.) The terms for removal of the "I," including the time limit for removal of the "I," will be decided by the instructor. It is the responsibility of the student receiving an "I" to arrange with the instructor whatever action is needed to move a grade of incomplete to a grade of satisfactory and is not computed in the grade point average. If the "I" grade is not removed within one calendar year or upon graduation, it shall be removed from a course after the forty-second calendar day of classes when a student withdraws or is officially withdrawn from the University. Beginning Fall 2000, W is also assigned in courses when a student withdraws from a course between the eleventh and forty-first calendar day of classes and is passing the course at the time of withdrawal.

**GRADES THAT DO NOT INFLUENCE GRADE POINT AVERAGE**

The following grades carry no quality points, and hours for which these grades are earned are not counted in computing a student's grade point average.

NC (no credit) indicates failure to complete a course satisfactorily when taken on an S/NC basis.

S (satisfactory) is assigned for C or better work when a course is taken on an S/NC grading basis.

W (withdrawal) is assigned in courses when a student has officially withdrawn from the University. Beginning Fall 2000, W is also assigned in courses when a student withdraws from a course between the eleventh and forty-first calendar day of classes. Regulations concerning withdrawal from courses or from the University appear in a following section of this catalog, entitled "Changes in Registration."

WP (withdrawal passing) is assigned beginning Fall 2000 in courses when a student withdraws from a course after the forty-second calendar day of classes and is passing the course at the time of withdrawal.

**SATISFACTORY/NO CREDIT GRADING SYSTEM**

The purpose of this system is to encourage the student to venture beyond the limits of those courses in which the student usually does well and, motivated by intellectual curiosity, explore subject matter in which performance may be somewhat less outstanding than work in other subjects. To this end Satisfactory/No Credit (S/NC) grading has been developed for undergraduate courses (100-, 200-, 300-, and 400-level courses). Neither grade is counted in a student's grade point average, but, like all other grades, is entered on the permanent record. S is given for C or better work on the traditional grading scale and NC is given for less than C work. The student only receives credit in the course if an S is received.

A student may not repeat a course for S/NC if the student received a conventional grade (A, B+, B, C+, C, D, F). The instructor of a conventionally graded course will not be informed which student, if any, has elected S/NC grading. If the student elects non-conventional grading, grades of A, B+, B, C+, C, will be recorded on the student's permanent academic record as S, and D or F as NC. The grade of I for incomplete work will be recorded as an I, which will not be computed in the average. A student is permitted to change the system of grading in a course after the add deadline. The changing of an S/NC grade to a conventional letter grade or vice versa is not permitted unless an error is determined by the Registrar.

**FRESHMAN ENGLISH**

English 101, 102, 118, 121, 131, and 132 are offered on a system of A, B+, B, C+, C, I, NC, W grading.

**REPEATING COURSES**

For the first three repeated lower-division courses (100-200 level), only the last grade earned in the repeated courses will be counted in computing the grade point average. If the same course is repeated more than once, the additional repeats count as part of the three total. For all courses repeated after the first three, all grades will be included when computing the grade point average. All grades for all courses remain on the transcript.

**GRADUATE SCHOOL GRADES**

Consult the Graduate Catalog for grades in courses taken for graduate credit.

**LAW SCHOOL GRADES**

Law students are graded on a numerical scale from 0.0 to 4.0. Quality points per hour of credit in a given course are equal to the numerical grade received in the course.

Grades of 3.0 and below count as failures. Some courses are graded on an S/NC basis.

**ACADEMIC REGULATIONS**

**ACADEMIC ADVISING AT UT**

Faculty, administrators, and professional staff on this campus consider advising both a responsibility and an opportunity for improving each student's pattern of undergraduate education. There are many situations during an academic program when a student will find informed academic and career advice helpful. The objective of the academic advising system at UT is to help a student at each stage to define the choices that must be made and to give any needed guidance.

At the time of application for admission to UT, each student is asked to indicate whether he/she has already identified a preferred college or school. Advising centers in each college handle all freshmen and a substantial amount of sophomores advising; major advisors within the college, working closely with the advising center, guide advanced students. At all levels, campus-wide guidelines for good advising are supplemented by specific college standards, guidelines, and evaluations. Prior to advanced registration, during each main term of the academic year (i.e., during Spring and Fall), each student has the obligation to consult an advisor for a substantial conference.

Students who are admitted as university students have not yet declared an interest in a specific college are advised by the College of Arts and Sciences Advising Center, 220 Ayres Hall, with assistance of advisors in other colleges and career planning.

New students at UT should review carefully the prescribed curricula of the respective degree-granting units and should choose courses in accordance with their college preference. An advisor assists a student in selecting subjects to ensure a well-balanced education and interprets university and college policies and requirements. However, the student, not the advisor, bears the ultimate responsibility for selecting courses, meeting course prerequisites, and adhering to policies and procedures.

Part-time students, particularly those registering through Evening School, should establish contact with an advisor in the college with which they are associated or in which they have expressed an interest.

Assistance to students with academic problems or questions is provided by course professors, advisors, deans of humanities, and college deans or advising centers. Numerous other sources of academic, career, and personal counseling exist on the UT campus and are available to admitted students. These are described in this catalog under "Student Affairs and Services."

**ACCELERATED PROGRAM**

The University operates on the semester calendar, and a majority of its courses, especially at the lower division, are offered every term. Through appropriate arrangements of courses and attendance during the summer terms, students may frequently complete their degree programs in less than four years.

A student's faculty advisor should be consulted for assistance in planning an accelerated program.

**ADVANCED MILITARY SERVICE AND AIR FORCE AEROSPACE STUDIES**

Students who elect to enroll in the advanced military courses (junior and senior years) are obligated by written agreement with the government to complete the courses and to accept a commission if tendered.

**CLASS ATTENDANCE AND ELIGIBILITY**

Only students who are properly registered for a course may attend its classes on a regular basis. Any other person in the classroom for special reasons must obtain the consent of the instructor.

It is the prerogative of the individual instructor to set the attendance requirements for a particular class. This means, for example, that an instructor in Freshmen English may state in a syllabus how many absences are allowed before a student receives a grade of No Credit.
CLASSIFICATION
Undergraduate students are classified according to the following chart, on the basis of semester hours passed.

To be considered a full-time undergraduate student in any semester, a student must be enrolled in 12 semester hours, including the full summer term. Six hours for each separate term of the summer session are required for full-time classification. Audit hours are not considered in the computation.

CLASSIFICATION OF STUDENTS BY SEMESTER HOURS PASSED

<table>
<thead>
<tr>
<th>YEAR</th>
<th>Architecture Undergraduate Programs</th>
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</thead>
<tbody>
<tr>
<td>First</td>
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<tr>
<td>Second</td>
<td>32-63.9</td>
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<tr>
<td>Third</td>
<td>64-95.9</td>
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<tr>
<td>Fourth</td>
<td>96-127.9</td>
</tr>
<tr>
<td>Fifth</td>
<td>128-up</td>
</tr>
</tbody>
</table>

COURSES OF STUDENTS BY SEMESTER HOURS PASSED

Students taking work for teacher certification purposes should consult the State Department of Education of their respective states concerning the amount of correspondence credit allowed for teacher certification.

NATIONAL BOARD OF EXAMINERS

When approved by a given department, nationally recognized examinations, such as the National Board of Examiners in Surgical Technology, may be designated by the instructor. The final decisions, as to the acceptance of CLEP credit, will be made by the Department of Medicine.

Students may offer by correspondence as shown on the catalog.

DEVIATION FROM CATALOG RULES

The University offers a petitioning procedure through which students can occasionally gain exceptions to the general rules included in this catalog. The director of student affairs will seek to deviate from the rules to complete the petitioning process. In cases where the student will not affect the student's eligibility to enroll in a particular course, the student should begin the petitioning process during the previous term and must gain final approval for the petition no later than the add deadline of the term involved.

FAILURE TO MEET PROGRESSION REQUIREMENTS

Undergraduate students who are not eligible to progress in a college, school, or major with such requirements will be notified and assigned to the advisor to University Students who will advise the student and approve enrollment requests until the student is enrolled in another college or major.

FINAL EXAM

Any final exams must be given during the final exam period at the scheduled time, although alternative uses of the scheduled exam period may be designated by the instructor.

APPEALS TO THE UNDERGRADUATE COUNCIL

Students may appeal grades on the basis of one or more of four allowable grounds:

1. A clearly unfair decision (such as lack of consideration of circumstances clearly beyond the control of the student, e.g., a death in the family, illness or accident);
2. Unacceptable instruction/evaluation procedures (such as deviation from stated policies on grading criteria, incomplete, late paper, examinations, or class attendance);
3. Inability of instructor to deal with course responsibilities; or
4. An exam setting which makes concentration extremely difficult.

THE APPEALS PROCEDURE

1. The student should first consult with the instructor and if agreement cannot be reached, the student may appeal to the department head. If the student believes the grade assignment was based on criteria other than academic, such as race, gender, religious beliefs, national origin, age or handicap, the student should make an appeal in writing to the Office of Affirmative Action with a copy to the department head.
2. If the student appeals to the department head after attempts to resolve the matter with the instructor have failed, it is the responsibility of the department head to determine the circumstances surrounding the assignment of the grade. If the department head has reason to believe that none of the four (4) academic conditions specified above apply, then the department head...
3. If the student wishes to pursue appeal further, he or she may appeal in writing to the Dean of the college in which the department is located.

If the issue is still unresolved, the student may initiate the formal Undergraduate Council appeals procedure.

1. The student may forward to the Dean of Undergraduate Affairs and Chair of the Undergraduate Council a statement requesting a review of the student's complaint concerning his or her grade. The appeal must be written and must be based upon one or more of the four allowable grounds, explaining in detail why the appeal is based upon these grounds.

2. The Dean of Undergraduate Academic Affairs, after consulting with the student and the college office to determine that the appeal does in fact fall under the jurisdiction of the Undergraduate Council and has been brought forward in the proper form, will, first, forward the appeal to the Appeals Committee of the Undergraduate Council for review and, second, notify the Dean, the Department Head, the course instructor, and the student that the Appeals Committee has the case under review.

3. Upon receipt of the appeal, the chairperson of the Appeals Committee will call a special meeting of the committee for purposes of hearing the appeal. The chair will invite the student, the instructor, and the department head to appear in person if they choose or to supply a written statement (in the student's case this statement will already have been provided). The committee will maintain a recording of the hearing.

4. After hearing the appeal, the Appeals Committee will vote as to whether the grade should be overturned. A majority vote will constitute the decision of the committee. A tie vote will be decided by the chair.

5. The decision of the Appeals Committee will be relayed by the chair of the Committee in writing to the principals.

6. If the appeal has been denied by the Appeals Committee, the student may appeal to the full Undergraduate Council. If the Council denies the appeal, the grade stands.

7. If the student's appeal is upheld by the Appeals Committee, the instructor may appeal to the full Undergraduate Council. If the Council holds for the instructor, the grade stands.

8. If the student's appeal is upheld by the Appeals Committee and there is no appeal by the instructor to the full Undergraduate Council, or if the instructor does appeal to the full Undergraduate Council and the Council holds for the student, the instructor may either elect to change the grade to a higher grade or refuse to do so.

9. If the instructor refuses to change the grade, the Associate Vice Chancellor will instruct the Registrar to change the course grade to "Pass."

In all cases of appeal to the full Undergraduate Council, the chairperson of the Undergraduate Council will notify the student or instructor, in writing of the Council's decision and if applicable, of the right to further appeal in accordance with Article 5, Section 7, of the University by-laws:

- Officers, faculty and staff members, students, and employees, alumni, and all other officers who feel that they may have a grievance against the University shall have the right to appeal through the proper channels.
- Faculty members also have responsibilities which are vital to the success of the Honor Statement and the creation of a climate of academic integrity within the University community. Each faculty member is responsible for defining, in specific terms, guidelines for preserving academic integrity in a course. Included in this definition should be a discussion of the Honor Statement. Faculty members at their discretion may also encourage their students to acknowledge adherence to the Honor Statement by “pledging” all graded class assignments and exams. The form of pledge may include writing the honor statement on the assignment, signing the printed statement, or simply writing “Pledged.” Additionally, it will be the responsibility of each faculty member, graduate teaching assistant, and staff member to act on any violation of the Honor Statement. It is also incumbent upon faculty to maintain an atmosphere conducive to academic integrity by insuring that each quiz, test, and exam is adequately proctored.

THE STATEMENT

An essential feature of the University of Tennessee is a commitment to maintaining an atmosphere of intellectual integrity and academic honesty. As a student of the University, I pledge that I will neither knowingly nor carelessly give or receive any inappropriate assistance in academic work, thus affirming my own personal commitment to honor and integrity.

HONORS COURSES

Courses specifically designated as honors courses will receive the notation "Hon." These courses are available, but not exclusive to, those students enrolled in the University Honors Program. Students selected on the basis of ACT/SAT scores and previous academic performance may also enroll. There is no limit to the number of credits that may be earned in these courses except in the senior readings courses not requiring regular class attendance. These courses may not total more than six credit hours toward graduation. In the fields of science that offer four credit hour courses, the total may be eight semester hours.
Letters are sent to entering freshmen who qualify for non-departmental honors courses. Students other than freshmen should consult the Director of Honors Program or individual programs.

INCLEMENT WEATHER

The University of Tennessee will remain open except in the most severe weather conditions. The Chancellor may officially close or suspend selected activities of the University because of extreme weather conditions. When a decision to close is made, all campus and local radio and TV stations will be notified so that appropriate announcements may be made.

If the University is officially closed, certain essential activities such as food services, physical plant, police, steam plant, and telephone services will continue to operate. Some facilities such as the library and University Center will, if possible, continue to function as a service to students and faculty. When the University is officially closed, its policy of Days of Administrative Closing will apply to staff exempt and staff non-exempt employees.

In the event of inclement weather when the University remains open, all faculty, administrators, and staff will be expected to make every reasonable effort to maintain their regular work schedules, to avoid undue risks in traveling. Employees who anticipate arriving late or not arriving at all should notify their immediate supervisors. Employees will have the option of changing their time off to annual leave or leave without pay, or, with approval, they may make up their lost work hours.

Students will be responsible for any academic work which they miss due to absences caused by severe weather conditions. It is the individual student’s responsibility to take the initiative to make up any missed class work, and it is the instructor’s responsibility to provide a reasonable opportunity for students to complete assignments or examinations missed due to such absences.

MINIMUM CLASS SIZE

An undergraduate course will not normally be given for fewer than fifteen students at the lower division; twelve at the upper division; and nine at the graduate level except by permission of the Vice Chancellor for Academic Affairs. The University reserves the right to cancel, postpone, or combine when necessary.

PROFICIENCY EXAMINATION

A proficiency examination may be given in any academic course offered for undergraduate credit. The University policy is to reserve to departments the decisions as to which courses, if any, cannot be passed by proficiency examinations. Proficiency examination credit is available only for UT students.

When applying to a department for a proficiency examination, a student should present evidence of having developed the abilities, knowledge, and attitudes expected of those who have taken the course in question. The giving of the examination must be approved by the head of the department in which the course is offered. A fee must be paid in advance at the Office of Bursars.

Subject to the grading policy of the college in which the student is enrolled, and except for courses which are graded on an S/NC basis, a student who passes a proficiency examination and who wishes to have the grade recorded may choose to take the grade on the examination (A, B+, B, C+ or C) or take an S. An S gives credit for the course but does not affect the grade point average. If a grade of D or F is made on a proficiency examination, the department is expected to note the attempt but no record of the examination is made on the student’s transcript. The maximum credits obtainable through proficiency examination and evaluation procedures to remove failing grades (also the grade of F) are determined by the department offering the proficiency examination.

Entering international students whose native language is not English are required to take the UT English Proficiency Examination to determine placement in the appropriate English course. No credit for any English course is awarded through this special examination.

PROGRAM ASSESSMENT AND IMPROVEMENT THROUGH STUDENT EVALUATION

In order for the University to assess and improve its academic programs, periodic measurements of student perceptions and intellectual growth must be obtained. As a requirement for graduation students shall participate in one or more evaluative procedures, which may include examinations, self and general education and/or the major field of study. The evaluative information obtained through testing is used solely to improve the quality of the educational experience for future generations of students.

SENIOR GENERAL EDUCATION TEST

The Tennessee Higher Education Commission requires that each public institution for higher learning evaluate the general education skills of the senior class. Each year a percentage of the seniors are selected to take the test. The test results enable the University of Tennessee to evaluate the University’s general education program and to qualify for needed funding from the state. Students are informed in their senior year if they have been selected to take the test.

SECOND MAJORS AND MINORS

Students may pursue any available minors or second majors which will be so noted on their transcripts upon graduation. Students should understand that meeting the requirements of minors or second majors does not affect their academic programs and should consult closely with advisors in both areas.

SENIORS ELIGIBLE FOR GRADUATE CREDIT

A senior at The University of Tennessee who needs 30 semester hours or less to complete the requirements for a bachelor’s degree and has at least a 3.00 grade point average, may take sufficient work for graduate credit to fill out a schedule of 15 hours of combined undergraduate and graduate work per semester, subject to the approval of each term of the Dean of the Graduate School. A maximum of 15 hours of graduate credit can be obtained in this status. Some departments require that seniors register to graduate courses without prior permission (See Majors and Degree Programs chart for information on restricted programs).

Courses taken for graduate credit may not be used toward both the baccalaureate and a graduate degree.

SPECIAL REQUIREMENTS FOR STUDENT-ATHLETES

Student-athletes participating in intercollegiate sports under the provisions of the National Collegiate Athletic Association and the Southeastern Conference must fulfill the NCAA academic progress requirements in addition to the University’s academic continuation and retention policies for continuation of eligibility to participate in intercollegiate sports.

TEACHER CERTIFICATION

Teacher certification is a responsibility of the College of Education of the University of Tennessee. Students desiring certification must meet general education, professional education, and area of specialization requirements described in the College of Education section of this catalog.

UNIVERSITY STUDENTS

Many students are undecided about their major when they enter UT. All undecided students are designated University Students and are advised by the Academic Advising Center. While it is proper to explore alternative choices, student should also aim at pursuing a course of study that culminates in graduation. For those students who enter UT as freshmen may remain as University Students no longer than through the completion of the second full term of study (30 semester hours). Students who transfer from another college or university may enroll as University Students; however, if the total number of hours transferred is more than 30 semester hours, transfer students may remain as University Students no longer than through the completion of 15 semester hours. UT students who fail to progress in a given major, college, or school and are undecided about an alternative course of study may continue at UT as University Students for a maximum of 15 semester hours.

WRITING COMPETENCE

The faculty of all colleges expect students to communicate effectively in standard written English in laboratory reports, examinations, essays, and other written assignments.

WRITING DEFICIENCY

If a student cannot fulfill the requirements for a course because of deficiency in writing, the instructor will give the student an "IW" to designate "incomplete due to writing." Student work required revision will be sent to the Writing Center Director. Any student who receives an "IW" should contact the Writing Center Director for instruction. The Writing Center will determine the appropriate requirement for remediation. Upon the Writing Center Director's recommendation, it will be returned to the instructor who will change the student's grade accordingly. As with other incompletes, the student will have one calendar year from the date of the deficiency to make up the deficiency before the grade automatically changes to reflect failure for the course.

REGISTRATION

Dates for orientation and registration are announced to new and transfer freshmen students prior to the Certificate of Admission is issued. Graduating seniors are instructed when to register upon receipt of their Registration Status. Former students who have been absent from UT other than the summer term and students who have withdrawn from the previous semester will receive registration information with their letter of readmission. Evening School students should contact the University Evening School for registration times.
of Classes for appropriate location.) Between the add deadline and the drop deadline, the signature of the Special Services Officer or College Registrar is required in order to change credit. Once the drop deadline is passed, a change will not be allowed.

PREREQUISITE AND CORREQUISITE COURSES
Students must meet prerequisite and corequisite requirements for all courses with such restrictions, and no student shall be permitted to register for those courses in which the requirements have not been met.

CHANGES IN REGISTRATION
Students may add courses through the tenth calendar day counted from the beginning of classes. Because of the nature of some courses, permission of the department head or instructor may be required to add a course after classes begin. Students may also, as departmental policies permit, change section of a course through the tenth day.

Students may drop courses until the tenth calendar day from the start of classes with no notation on the academic record. From the 11th calendar day until the 42nd calendar day, students may drop courses which will receive the notation of "W" (Withdrawn). The "W" grade is not computed in the grade point average. Courses may be dropped through the telephone registration system. After the 42nd calendar day and to the 84th day of classes, courses may be dropped and will be assigned a "WP" (Withdrawn Passing) or a "WF" (Withdrawn Failing). Instructor's signature is required. The form, once signed, should be taken to the Office of Registration Services for processing. The "WF" is calculated in the grade point average as an F. After the 84th day, no drops are permitted.

The exceptions to the add and drop deadlines are summer and other special sessions. Students should consult the summer term timetable for the appropriate deadlines.

Failure to attend a course is not an official withdrawal and will result in the assignment of an F grade.

Evening School students should consult the University Evening School timetable for procedures to drop courses. Graduate students should consult the Graduate Catalog for regulations concerning dropping courses.

WITHDRAWING FROM THE UNIVERSITY
Undergraduate day students who need to leave the University before a term is finished must apply for withdrawal in the registration area of the Registrar's Office, 201 Student Services Building. Evening School and Graduate School withdrawals are accomplished at those offices. Information on dropping a single course is provided in the section entitled "Changes in Registration." Requests for withdrawal are routinely approved when the student applies by the deadline listed in the Timetable of Classes. The word "withdrawn" will be posted on the transcript.

It is the responsibility of a student who has registered for classes to attend them or, if that is impossible, to apply for withdrawal. A student will receive final grades unless the student follows procedures for withdrawal from the University.

A student who simply stops participating in classes, or fails to attend class, without officially withdrawing will be assigned the grade of "F" in each course. Students who do officially withdraw must apply for readmission in advance of their next term of anticipated enrollment, except for withdrawal from summer term.

Enrolled students are liable for payment of fees. Any refunds that may be due will be handled by the student's college or school. Withdrawals are issued by the Bursar's Office.

UNDERGRADUATE RETENTION STANDARDS

TRANSFER STUDENTS
A transfer student who has been conditionally admitted must meet the regular University standards of retention during the first term, or any subsequent term before attaining good standing.

ACADEMIC SECOND OPPORTUNITY
The Academic Second Opportunity is designed to assist the student who was not successful in progressing toward a degree during a previous attendance at UT but is now performing satisfactory work. Granting it is an acknowledgment by the University that the student's earlier work is not consistent with his or her academic potential but that the work earned since return is. This policy is not intended to allow students to progress directly into a major; exceptions to progression standards must be made at the college level.

An undergraduate student may petition for Academic Second Opportunity upon meeting the following requirements:

(1) the student has re-enrolled following an absence from UT of at least three full calendar years;
(2) the student's previous academic record at the University was unsatisfactory (normally, below a C average);
(3) since readmission, the student has completed 15 or more graded hours (correspondence coursework may not be included in the 15 hours), earning a 2.5 GPA or above.

Decisions on granting Academic Second Opportunity are made by committees. If the student's petition is approved, all previous academic work will remain on the permanent record, but the grades for such work will not be used in computing the grade point average or in determining academic standing. Previous credits earned with a grade of C or better will continue to meet major, distribution, and graduation requirements.

To graduate, a student granted Academic Second Opportunity must complete at least 30 hours at UT following readmission. To meet minimum qualifications for graduation with honors, the student must earn a minimum of 60 semester hours of letter grades (A-F) following readmission. Academic Second Opportunity may be granted only once. If hours earned during the previous attendance have already been applied toward the completion of an awarded degree from a four-year institution, Academic Second Opportunity will not be granted. Registration at another college or university since the previous UT enrollment will not prevent a student from qualifying. (The last 60 hours of credit counted...
toward the baccalaureate degree must have been earned at an accredited senior college. Petition must be made no later than the academic term prior to the one when the degree will be granted. Students should see the University Registrar website (http://web.utk.edu/~registrar) or contact their college for deadlines for specific terms. Petition forms are available in the student's college.

**ACADEMIC REVIEW**

The University of Tennessee expects all students who enter the University to remain in good academic standing. To accomplish this, the University has established retention standards. To graduate from UT, a student must earn a minimum cumulative GPA of 2.00. The catalog contains additional retention, progression, and graduation requirements for specific programs.

Students will be placed in Academic Review when either their cumulative grade point average falls below the minimum acceptable level of 2.00 for one semester, or when their semester grade point average falls below the minimum acceptable level of 2.00 for two consecutive semesters regardless of their cumulative GPA. During that semester, and any other semesters in review, a student must participate in a special advising program in his or her college. If, while in review, a student does not maintain a 2.00 grade point average for hours attempted each term, the student may be readmitted from his or her college or be released and dismissed from the University. A student released from his or her college with a cumulative grade point average of 2.00 or higher may seek admission to an alternate college and major. A student with a grade point average below 2.00 who is released from the college but not dismissed from the University is classified as a University student and is advised in the College of Arts and Sciences. A student dismissed from the University may apply for readmission to the University after a minimum of two years (with summer considered a semester) away from the University.

**GENERAL REQUIREMENTS FOR A BACHELOR’S DEGREE**

To receive a bachelor's degree from the University of Tennessee a student must complete all of the requirements listed below. Some of the colleges and schools within the University have special requirements above and beyond those stated here, and students are advised to consult the appropriate section of this catalog for any further degree requirements. Each program presented by the candidate for a bachelor's degree is reviewed and approved for meeting the degree requirements by the Office of the Dean of Admissions and Records.

(1) Complete satisfactorily all requirements of the curriculum for which the student is enrolled, as described in the portion of this catalog devoted to the college or school offering the curriculum. Curriculum requirements change frequently, and students should note the caution on the second page of this catalog. A student is allowed to satisfy requirements for a bachelor's degree under any curriculum in effect during the student's attendance at UT provided the curriculum has been in effect within six years of the date of graduation. This does not obligate the University to offer a discontinued course. Programs may be adjusted by the student's faculty advisor and college dean, in consultation with the Registrar's Office.

(2) Achieve a grade point average of at least 2.00 on all work attempted at the University of Tennessee. (Students bringing transfer work to UT before Fall 1985 must also have a combined average of at least 2.0 on all UTK work and the work transferred in and posted before Fall, 1985.)

(3) Complete 60 hours of credit offered for the bachelor's degree at an accredited senior college.

(4) Complete the last 30 hours of credit offered for the bachelor's degree in residence at the University of Tennessee. Credit for correspondence courses taught by the faculty of the Knoxville campus may be counted as part of this requirement, with the exception of the limitation noted in the regulations concerning correspondence work. Special arrangements to allow work taken at other University of Tennessee campuses to be counted as part of this requirement must be approved by the dean of the student's major college or school and the Dean of Admissions and Records.

(5) Comply with the state law that one unit of American history at the high school level or six semester hours of collegiate work be satisfactory completed. This requirement is effective for those graduating July 1, 1978 and thereafter. It may be satisfied by completing History 221, 222, or 227-228. History 449 may be used in lieu of three hours of American history. Students should consult the catalog of enrollment to determine how the six hour's credit for fulfillment of this requirement is to be included in individual curricula.

(6) Hours completed at the university level to remove high school deficiencies may be used to meet specific curricular requirements. However, hours earned in these courses will not count toward the total hours required for graduation, effectively adding to the total number required for graduation.

(7) Satisfy all financial obligations (fees or fines) owed to the University.

(8) File an application for a degree with the Office of the Registrar, Room 209 Student Services Building, at Pre-Registration for your final term before graduation. Application deadlines are printed in the Timetable for each term. This deadline is imperative in order that all necessary processing can take place toward the degree.

(9) Comply with the Tennessee Higher Education Commission requirements to complete General Education Comprehensive Tests in the Major.

(10) Students who wish to participate in their graduating class Commencement Ceremony will need to place a Cap and Gown order with the University Center Book and Supply Store. Orders placed after the deadline date established by the Book and Supply Store will be subject to a late fee.
THE UNIVERSITY REQUIREMENT
GENERAL EDUCATION

The goal of general education is to develop those basic skills, knowledges, attitudes, and judgments that are necessary for effective citizenship at all levels, from the local to the global; for responsible and fulfilling interactions with others and the environment; and for an enriched personal life. General education may also provide the basis for a major or professional concentration, but its aims are not career-specific. The following areas define the general education program for undergraduate curricula.

English Composition (2 courses)
Courses used to meet this requirement should develop the student's ability in analytic and expository writing through the study of literature and writing applications. This requirement would normally be satisfied by completion of English 101-102 or equivalents, or by demonstration of proficiency.

Mathematical Sciences (2 courses)
Courses used to meet this requirement should develop the student's ability to analyze and solve quantitative and logical problems.

Humanities and The Arts (2 courses)
Courses used to meet this requirement may concentrate either on critical analysis or practice of the arts. These might include the interpretation and analysis of works in one or more of the arts; consideration of significant philosophical, ethical, or religious text and issues; or participation in some area of the visual, spatial, musical, theatrical, rhetorical, or written arts.

Historical Studies (2 courses)
Courses used to meet this requirement should develop the student's appreciation of continuity and change over time. Such courses would examine the connections and interactions between different aspects of the human experience through attention to significant political, social, economic, intellectual, and cultural developments in a chronological, balanced, and integrated framework.

Social Sciences (2 courses)
Courses used to meet this requirement should describe the structures of society, clarify the dynamics of cognitive and personal development through the life cycle, or analyze social, economic, or political issues.

Natural Sciences (2 courses)
Courses used to meet this requirement should describe the world around us using scientific methods and examine natural phenomena in terms of scientific principles. Such courses would normally contain a laboratory or field experience.

Foreign Languages (2 courses at the intermediate level)
Courses used to meet this requirement should facilitate the student's ability to use a foreign language as a tool for oral and written communications and reading, including an understanding of the cultures for which it is the native language.

OR

Integrative Studies (2 courses)
Courses used to meet this requirement may be of three broad types:

a. Multicultural studies, which analyze international dimensions of critical issues or explore elements and values that shape a culture other than the student’s own;

b. Interdisciplinary studies, which incorporate the methods and approaches from two or more disciplines to explore major issues; or

c. Disciplinary perspective courses, which explore the potential and limits of a discipline in terms of its impact on individuals and society or examine a student’s major course of study from a value-oriented perspective.

All majors and college or school curricular requirements described in this catalog are in accordance with the University Requirement.
### MAJORS, MINORS AND CONCENTRATIONS

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<th>CONCENTRATION WITHIN THE MAJOR</th>
<th>DEGREE</th>
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<td>Agricultural Economics and Business</td>
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<td>Production/Management Science/Technology</td>
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<td>Animal Science Curriculum with Pre-Veterinary (3-1)</td>
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<td>Forestry, Wildlife, and Fisheries</td>
<td>Forestry</td>
<td>Forest Resources Management Wildland Recreation</td>
<td>Bachelor of Science in Forestry</td>
</tr>
<tr>
<td>Ornamental Horticulture and Landscape Design</td>
<td>Ornamental Horticulture and Landscape Design</td>
<td>Horticultural Science and Management Business Public Horticulture Landscape Design</td>
<td>Bachelor of Science in Ornamental Horticulture and Landscape Design</td>
</tr>
<tr>
<td>Plant and Soil Sciences</td>
<td>Plant and Soil Sciences</td>
<td>Science/Technology Management/Consulting Environmental Science and Natural Resources</td>
<td>Bachelor of Science in Plant and Soil Sciences</td>
</tr>
<tr>
<td><strong>College of Architecture and Design</strong></td>
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<tr>
<td>School of Architecture</td>
<td>Architecture</td>
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<tr>
<td>Interior Design</td>
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<td></td>
<td>Bachelor Science in Interior Design</td>
</tr>
<tr>
<td><strong>College of Arts and Sciences</strong></td>
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<tr>
<td>Anthropology</td>
<td>Anthropology</td>
<td>Honors</td>
<td>Bachelor of Arts</td>
</tr>
<tr>
<td>Art</td>
<td>Art History</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Graphic Design</td>
<td></td>
<td>Bachelor of Fine Arts</td>
</tr>
<tr>
<td></td>
<td>Studio Art</td>
<td>Art Education Ceramics Drawing Inter-Area Painting Photography/Media Arts Printmaking Sculpture Watercolor</td>
<td>Bachelor of Fine Arts</td>
</tr>
<tr>
<td></td>
<td>Studio Art</td>
<td></td>
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<tr>
<td>Audiology and Speech Pathology</td>
<td>Audiology</td>
<td></td>
<td>Bachelor of Arts</td>
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<tr>
<td></td>
<td>Speech Pathology</td>
<td></td>
<td>Bachelor of Arts</td>
</tr>
<tr>
<td>Division of Biology</td>
<td>Biological Sciences</td>
<td>Biochemistry and Cellular and Molecular Biology Honors Biochemistry and Cellular and Molecular Biology Ecology and Evolutionary Biology Honors Ecology and Evolutionary Biology</td>
<td>Bachelor of Science</td>
</tr>
</tbody>
</table>

1 Minor available. 
2 Minor available for students in other colleges. 
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<table>
<thead>
<tr>
<th>DEPARTMENT (UNIT)</th>
<th>MAJOR</th>
<th>CONCENTRATION WITHIN THE MAJOR</th>
<th>DEGREE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>Chemistry</td>
<td>Microbiology, Honors Microbiology, Plant Biology</td>
<td>Bachelor of Science</td>
</tr>
<tr>
<td>Classics</td>
<td>Classics</td>
<td>Classical Civilization, Greek, Latin</td>
<td>Bachelor of Science in Chemistry</td>
</tr>
<tr>
<td>Computer Science</td>
<td>Computer Science</td>
<td>Greek, Latin</td>
<td>Bachelor of Arts</td>
</tr>
<tr>
<td>Economics</td>
<td>Economics</td>
<td>Honors</td>
<td>Bachelor of Science</td>
</tr>
<tr>
<td>English</td>
<td>English</td>
<td>Creative Writing, Literature, Rhetoric and Writing, Technical Communication</td>
<td>Bachelor of Arts</td>
</tr>
<tr>
<td>Geography</td>
<td>Geography</td>
<td>Honors</td>
<td>Bachelor of Arts</td>
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<tr>
<td>Geological Sciences</td>
<td>Geology</td>
<td>Engineering Geology</td>
<td>Bachelor of Science</td>
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<tr>
<td>History</td>
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<tr>
<td>Mathematics</td>
<td>Mathematics</td>
<td>Honors Program in Mathematics</td>
<td>Bachelor of Science</td>
</tr>
<tr>
<td>Modern Foreign Languages and Literatures</td>
<td>French</td>
<td>Literature, Language and World Business</td>
<td>Bachelor of Arts</td>
</tr>
<tr>
<td></td>
<td>German</td>
<td>Language and World Business, Honors</td>
<td>Bachelor of Arts</td>
</tr>
<tr>
<td></td>
<td>Russian</td>
<td>Language and World Business</td>
<td>Bachelor of Arts</td>
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<tr>
<td></td>
<td>Italian</td>
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</tr>
<tr>
<td></td>
<td>Spanish</td>
<td>Language and World Business</td>
<td>Bachelor of Arts</td>
</tr>
<tr>
<td>Music</td>
<td>Music</td>
<td>Music Education/Instrumental Emphasis, Music Education/Instrumental Emphasis 4-year program, Music Education/Vocal-General, Keyboard Emphasis, Music Education/Vocal-General, Keyboard Emphasis 4-year program, Music Education/Vocal-General, Vocal Emphasis, Music Education/Vocal-General, Vocal Emphasis 4-year program, Organ, Piano, Piano Pedagogy and Literature, Sacred Music (Organ or Voice), Strings, Studio Music and Jazz, Theory Composition, Voice, Woodwind or Brass or Percussion Instruments</td>
<td>Bachelor of Music</td>
</tr>
<tr>
<td>Philosophy</td>
<td>Philosophy</td>
<td>Honors</td>
<td>Bachelor of Arts</td>
</tr>
<tr>
<td>Physics and Astronomy</td>
<td>Physics</td>
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<td>Bachelor of Science</td>
</tr>
</tbody>
</table>

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<th>MAJOR</th>
<th>CONCENTRATION WITHIN THE MAJOR</th>
<th>DEGREE</th>
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<tbody>
<tr>
<td>Political Science</td>
<td>Political Science</td>
<td>Honors in Political Science Public Administration</td>
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<tr>
<td>Pre-Professional Programs</td>
<td>Pre-Professional Programs</td>
<td>Pre-M.B.A.</td>
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<tr>
<td>Pre-Professional Programs</td>
<td>Pre-Professional Programs</td>
<td>Pre-Dental Pre-Medicine Pre-Nuclear Medicine Technology Pre-Pharmacy Pre-Veterinary</td>
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<td>Pre-Professional Programs (continued)</td>
<td>Pre-Teaching</td>
<td>Environmental Science Mathematics Mathematics and Science Science</td>
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<tr>
<td>Minor available in Medical Technology</td>
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<td>Bachelor of Science</td>
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<tr>
<td>Psychology</td>
<td>Psychology</td>
<td>Academic General</td>
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<tr>
<td>Religious Studies</td>
<td>Religious Studies</td>
<td>Student Initiated</td>
<td>Bachelor of Arts</td>
</tr>
<tr>
<td>Sociology</td>
<td>Sociology</td>
<td>Criminal Justice Environment and Society</td>
<td>Bachelor of Arts</td>
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<tr>
<td>Theatre</td>
<td>Theatre</td>
<td></td>
<td>Bachelor of Arts</td>
</tr>
<tr>
<td>Individualized Program</td>
<td>Individualized</td>
<td></td>
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</tr>
<tr>
<td>College Scholars Program</td>
<td>College Scholars</td>
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<td>Bachelor of Arts</td>
</tr>
<tr>
<td>Arts and Sciences (Intercollegiate with the College of Business Administration)</td>
<td>Statistics</td>
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<td>Bachelor of Science</td>
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**College of Business Administration**

<table>
<thead>
<tr>
<th>Accounting and Business Law</th>
<th>Accounting</th>
<th>Bachelor of Science in Business Administration</th>
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<tbody>
<tr>
<td>Business Administration (Interdepartmental Unit)</td>
<td>General Business</td>
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<td>Economics</td>
<td>Economics</td>
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<tr>
<td>Finance</td>
<td>Finance</td>
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</tr>
<tr>
<td>Management</td>
<td>Management</td>
<td>Bachelor of Science in Business Administration</td>
</tr>
<tr>
<td>Management Science Programs</td>
<td>Logistics and Transportation</td>
<td>Bachelor of Science in Business Administration</td>
</tr>
<tr>
<td>Marketing and Transportation</td>
<td>Marketing</td>
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</tr>
<tr>
<td>Statistics</td>
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**College of Communications**

<table>
<thead>
<tr>
<th>Advertising</th>
<th>Advertising</th>
<th>Bachelor of Science in Communications</th>
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</thead>
<tbody>
<tr>
<td>Broadcasting</td>
<td>Broadcasting</td>
<td>Bachelor of Science in Communications</td>
</tr>
<tr>
<td>School of Journalism</td>
<td>Journalism</td>
<td>Bachelor of Science in Communications</td>
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<tr>
<td>Speech Communication</td>
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<td>Bachelor of Arts in Communications</td>
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**College of Education**

<table>
<thead>
<tr>
<th>Counseling, Deafness, and Human Services</th>
<th>Special Education</th>
<th>Education of the Deaf and Hard of Hearing</th>
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<td></td>
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<td>Educational Interpreting</td>
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<td>Modified and Comprehensive</td>
<td>Modified and Comprehensive</td>
<td>Bachelor of Science in Education</td>
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**Educational Administration and Cultural Studies**

**Educational Psychology**

1 Minor available.
2 Minor available for students in other colleges.
3 Minor available in Adolescent Health.
4 Minor available in General Special Education.
5 Minor available in Elementary Teaching and Secondary Teaching.
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### Academic Policies

<table>
<thead>
<tr>
<th>DEPARTMENT (UNIT)</th>
<th>MAJOR</th>
<th>CONCENTRATION WITHIN THE MAJOR</th>
<th>DEGREE</th>
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<tbody>
<tr>
<td>Exercise Science and Sport Management</td>
<td>Exercise Science</td>
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<tr>
<td></td>
<td>Sport Management</td>
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<tr>
<td>Instructional Technology, Curriculum, and Evaluation</td>
<td>Art Education (Intercolligiate)</td>
<td>Bachelor of Science in Education</td>
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<tr>
<td></td>
<td>Special Education</td>
<td>Bachelor of Science in Education</td>
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<td>Basic Engineering</td>
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<td>Chemical Engineering</td>
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<table>
<thead>
<tr>
<th>College of Human Ecology</th>
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<td>Child and Family Studies</td>
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<td>Consumer and Industry Services Management</td>
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<tr>
<td>Health and Safety Sciences</td>
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<td>College of Nursing</td>
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<td>College of Social Work</td>
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<table>
<thead>
<tr>
<th>University Honors</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Studies</td>
</tr>
</tbody>
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1. Minor available.
2. Minor available for students in other colleges.
4. Minor available in General Special Education.
6. Minor available in Applied Music or Music History and Literature.
8. Minor available in Dance.
9. Interdisciplinary Studies minor available in Gerontology.
The College of Agricultural Sciences and Natural Resources traces its history to 1869 when the University was designated as Tennessee's Federal Land-Grant Institution. Under terms of the Federal Land-Grant Act, the University was enabled for the first time to offer instruction in agriculture. This later was expanded to include research for the development of new knowledge and extension for dissemination of such knowledge to rural people.

Two separate administration units—the Agricultural Experiment Station and the Agricultural Extension Service—were organized and assigned responsibility for research and extension functions, respectively. More recently a College of Veterinary Medicine was established. These three units and the College now constitute the University of Tennessee's Institute of Agriculture. Thus, the College of Agricultural Sciences and Natural Resources is not only an academic unit of The University of Tennessee, Knoxville campus, it is also an important administrative unit of the Institute of Agriculture.

There are many shared resources and positive interactions between various units of the Institute. For example, most of the faculty in the College of Agricultural Sciences and Natural Resources hold joint appointments in the Agricultural Experiment Station and they are actively involved in significant basic and applied research in agriculture and the associated natural resources. On-campus and field research laboratories are utilized in the instructional programs of the College, while extension and research activities provide many students excellent part-time job opportunities.

The unique association the College has with the UT Knoxville campus and the other units of the Institute of Agriculture make it possible for the College to offer comprehensive high quality undergraduate and graduate programs.

**CURRICULA IN AGRICULTURE**

Broad opportunities for individuals to prepare for a future in agriculture, forestry, and wildlife and fisheries science are offered in the College of Agricultural Sciences and Natural Resources.

The College provides curricula leading to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Biosystems Engineering, Bachelor of Science in Forestry, Bachelor of Science in Ornamental Horticulture and Landscape Design, and Bachelor of Science in Wildlife and Fisheries Science. The professional degree program in Biosystems Engineering receives strong support from the College of Engineering and is fully accredited by the Accreditation Board of Engineering and Technology. The forest resources management and wildlife recreation concentrations are fully accredited by the Society of American Foresters.

A pre-professional curriculum in veterinary medicine is offered in the College. This program is designed to prepare students for admission to the College of Veterinary Medicine located on the Knoxville campus.

Students pursuing programs leading to the degree of Bachelor of Science in Agriculture major in one of several specialized areas of agriculture offered in the College. These major areas are agricultural economics and business, agricultural education, animal science, food science and technology, and plant and soil sciences. Specific courses required for each of these areas are given under the departmental headings in this section of the catalog. A student must complete the curriculum outlined by the department in which he/she is majoring in order to receive a degree. In all areas of specialization, particular emphasis is placed upon the sciences as a background for agricultural instruction; other courses are included to provide a liberal education. In all subject matter departments there is the opportunity to select elective courses appropriate to the educational objectives of individual students. The choice of electives in each curriculum should be made with the guidance of the faculty advisor.

Students pursuing a program leading to the degree of Bachelor of Science in Biosystems Engineering may select the concentration offered in agricultural engineering, biological engineering or food engineering. Students seeking the Bachelor of Science in Forestry may choose concentrations in forest resources management or wildlife recreation.

All academic and general requirements of the University as stated in the front section of this catalog must be met by agricultural students, and they must complete the requirements in one of the organized curricula. Students transferring into the College of Agricultural Sciences and Natural Resources from other than the UT Knoxville campus must have a grade point average of 2.0.

The use of transfer credit in technical subject matter areas appropriate to each organized curriculum will be considered and approved by the advisor of that curriculum and the Dean of the College of Agricultural Sciences and Natural Resources. When desirable, validating or proficiency examinations may be requested to determine competence in an area and to avoid unnecessary repetition. Such examinations should be taken during the first semester in residence and must be conducted under the supervision of the head of the department in which the course is offered.

A minimum of 18 semester hours of upper division technical agriculture appropriate to a specified major requirement, and approved by the major advisor, must be completed in residence to fulfill the requirements of baccalaureate degrees offered in the college.

A minimum grade point average of 2.0 for all courses taken in the department offering the major/concentration is required.

**Satisfactory/No Credit Courses**

Students may include a maximum of 21 hours in non-directed electives taken on a satisfactory/no credit basis in the total hours required for graduation.

**Graduate Study in Agriculture**

**Master of Science Programs**

Programs of graduate study leading to the Master of Science degree are offered in all departments in the College of Agriculture.
DOCTORAL PROGRAMS

Graduate study programs lead to the Doctor of Philosophy degree in animal sciences, agricultural economics, biosystems engineering, food technology and science, and plant and soil sciences.

General requirements and policies of the Graduate School of The University of Tennessee relating to admission to the Graduate School, residence, language, research, examination, and admission to candidacy shall apply to these programs and are described in the Graduate Catalog.

SELECTION OF CURRICULUM

Agricultural students who have determined their areas of special interest may choose the curriculum most adaptable to their needs when they register as freshmen, and an advisor from the department will be assigned for their counseling. It is not necessary, however, that freshmen students select a curriculum until the end of the first year. Those who are in doubt will be assigned a special advisor to assist them in exploring agriculture and to guide them in the planning of appropriate courses of study for the freshman year. When they choose a curriculum, an advisor will be assigned from that department.

Students with special interest in science, business, or production technology should consult the advisor about selection of appropriate electives. A foundation for advanced study beyond the baccalaureate degree may be established in any curriculum if appropriate electives are included; also, courses may be elected in any of the curricula leading to the degree of Bachelor of Science in Agriculture, in preparation for employment with the Agricultural Extension Service. For this purpose, both the major-curriculum advisor and the agricultural extension advisor should be consulted.

A very careful choice of electives enables a student with an above average academic record to complete a double or triple major by satisfying all the requirements in each curriculum. For this purpose, the advisors of each curriculum should be consulted, the dean of the College of Agricultural Sciences and Natural Resources should be informed, and each advisor should maintain a complete record of the student's progress. The multiple major will normally require more than 132 hours credit for graduation.

OPTIONAL MINORS

Agricultural students may have single or multiple minors in agriculture or in other colleges recorded on their transcripts without regard to course overlap among majors and minors. A minor in a department of the College of Agricultural Sciences and Natural Resources requires a minimum of 16 credit hours in courses numbered 200 and above with the majority of credit hours at the 200 and 400 level. At least 6 of the credit hours required for the minor must be completed at UT Knoxville. Specific requirements are listed by each department offering a minor. Minors offered in the College of Agricultural Sciences and Natural Resources are open to students of other colleges who have the approval of their advisor and department.

MINIMUM REQUIREMENTS FOR BACCALAUREATE DEGREE PROGRAMS

All B.S. degree programs offered in the College have the following minimum requirements:

Agriculture and Renewable Natural Resources
Perspectives (3)
Biosciences (College of Agricultural Sciences and Natural Resources courses included) (8)
Computer Science (3) or equivalent experience. See specific departmental requirements.
English and Communications (including English Composition, Speech, and Writing or Speaking elective) (3) (12)
English Composition (6)
Speech (3)
Writing or Speaking elective (3)
Mathematics (6)
Physical Sciences (Chemistry, Physics, Geology) (8)
Social Sciences and Humanities (including Economics (4) and electives (8) (12)
Electives (5)
Directed Electives (6)
Major Courses (24)
College of Agricultural Sciences and Natural Resources courses (outside of the major department) designated by the department and/or electives (12)
Other courses designated by the department and/or electives (38)
For a total of 132 hours.

Agricultural Economics

A must be courses in English and communications, biological sciences, physical sciences, or social sciences and humanities or combinations of these subject matter areas.
B Bachelor of Science in Biosystems Engineering
C College of Agricultural Sciences and Natural Resources

INDEPENDENT STUDY

Independent study and special topics courses and seminars offered in each department provide exceptional students the opportunity to explore in greater depth subject matter of unusual significance to agriculture. Students gain experience and are encouraged to assume responsibilities not available in formally organized courses. Association with students and faculty from all phases of agriculture and the renewable natural resources in the study of a common problem provides an unusual challenge.

COURSE LOAD

Students desiring to take more than 19 hours per semester must have the approval of the dean of the college.

TRANSFER STUDENTS

Students who transfer to the College of Agricultural Sciences and Natural Resources from another institution, or from another college at UT Knoxville, should consult the dean if in doubt about the curriculum they wish to follow and for assignment to an appropriate advisor. Requests for substitutions or special examinations should be submitted for consideration during the first semester of study in the selected curriculum.

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

Professors:
D. L. McLemore (Head), Ph.D. Clemson; M. B. Babers (Emeritus), Ph.D. Purdue; J. R. Brooker, Ph.D. Florida; C. L. Ciecland (Emeritus), Ph.D. Wisconsin; D. B. Eastwood, Ph.D. Tufts; B. C. English, Ph.D. Iowa State; K. L. Jensen, Ph.D. Oklahoma State; L. H. Keller (Emeritus), Ph.D. Kentucky; T. H. Klint (Associate Dean), Ph.D. Kentucky; F. O. Leuthold, Ph.D. Wisconsin; J. A. Martin (Emeritus), Ph.D. Minnesota; B. R. McManus (Emeritus), Ph.D. Purdue; S. D. Mundy, Ph.D. Tennessee; R. H. Orr, Ph.D. Illinois; W. M. Park, Ph.D. Virginia Polytechnic Institute; D. E. Ray, Ph.D. Iowa State; J. B. Riley, Ph.D. Oklahoma State University; R. K. Roberts, Ph.D. Iowa State; T. J. Whaley (Emeritus), Ph.D. Purdue; H. Williamson, Ph.D. Missouri.

Associate Professors:
R. W. Harrison, Ph.D., Kentucky; P. M. Jakus, Ph.D. North Carolina State; J. A. Larson, Ph.D. Oklahoma State.

Assistant Professor:
D. G. De La Torre Ugarte, Ph.D. Oklahoma State; E. C. Jaenicke, Ph.D. Maryland; K. H. Tiller, Ph.D. Tennessee.

AGRICULTURAL ECONOMICS AND BUSINESS CURRICULUM

Advisors:
Professors Brooker, McLemore, Mundy, and Park.

This curriculum is designed to provide students with training in the social sciences as well as in the physical and biological sciences and technical agriculture. Through course selection, students may prepare for employment in the rapidly expanding field of agricultural business or in the field of farm production and related areas. The business oriented student will be prepared for the management phases of agricultural business. Employment opportunities include work in marketing of agricultural products, agribusiness firm management, agricultural credit agencies and banks, farm real estate and appraisal services, public and private market analysis, and farm information services utilizing mass communications.

Farm management oriented students will be prepared for positions such as farm managers, county agricultural agents, managers of farm supply and purchasing firms, agricultural journalists, and farm loan agents. The curriculum also provides the necessary background for graduate work in agricultural economics.

Minor consists of 16 credit hours including Economics 201, Agricultural Economics 342, 350, 412, and a 3-hour elective in Agricultural Economics.

Hours Credit
Freshman
Agricultural Economics ........................................... 1
Agricultural and Natural Resources 101 ....................... 3
B.Biological Science Elective ................................... 8
Mathematics 123, 125 ............................................. 6
English 101, 102 ................................................... 6
Humanities Elective ............................................... 3
History Electives ................................................... 6
Sophomore
Agriculture and Natural Resources 290 ...............3
Economics 201 ..............................................4
*Physical Science Electives ..................................8
Speech 101 or 240 ............................................3
Accounting 201, 202 ........................................3
Animal Science 260 or 381 ................................3
Plant and Soil Sciences 210 or 230 .....................3
Statistics 201 ..................................................3
Junior
Rural Sociology 380 ........................................3
Economics 313 .................................................3
Statistics 350 ..................................................3
*Nondisciplinary Agricultural Electives .....................6
Agricultural Economics 320, 342, 350, 412 ........12
*Humanities Elective ..........................................3
English 205 .....................................................3
Senior
Agricultural Economics 410 ...............................1
Agricultural Economics or
Rural Sociology Electives ...............................12
*Business Electives ..........................................6
*Integrative Studies Elective ..........................3
Electives ......................................................11
Total: 132 hours

AGRICULTURAL ECONOMICS AND BUSINESS:
CONCENTRATION IN AGRICULTURAL EQUIPMENT SYSTEMS MANAGEMENT

Technology is changing rapidly in agricultural equipment and the industry is in need of professionals who have developed a high degree of technical expertise in addition to having the ability to apply sound business and economic principles to the management of a business. The Agricultural Equipment Systems Management Concentration is a unique interdisciplinary program that combines courses from the Agricultural Economics and Business Program and the Biosystems Engineering Technology Program. Graduates will find career opportunities in the agricultural machinery industry as dealerships managers as well as with agribusiness firms in operations management.

Students enrolling in the Agricultural Equipment Systems Management Concentration may apply for participation in the John Deere Dealership Management Program. This unique program represents a partnership between John Deere and the University of Tennessee for the southern region of the United States. Students participating in the John Deere Dealership Management Program will have a dealership mentor as a mentor, spend two summer internships in a dealership, and will be considered for additional scholarship assistance.

Biosystems Engineering Technology 202 .............3
Agriculture and Natural Resources 290 .............3
Plant and Soil Sciences 210 ...............................3
Chemistry 120 ..................................................3
Physics 161 ....................................................3
Speech 210 or 240 ............................................3
Junior
Agricultural Economics 320, 342, 350, 412 ........12
*Rural Sociology 380 ........................................3
Economics 313 .................................................3
Statistics 350 ..................................................3
*Business Law 301 ............................................3
English 295 .....................................................3
Biosystems Engineering 315 ................................3
Biosystems Engineering Technology 452 ............3
Senior
Agricultural Economics 410 ...............................1
Agricultural Economics 442 ................................3
Agricultural Economics or Rural Sociology Electives ..................6
*Business Elective ..........................................3
Biosystems Engineering Technology 432 ..............3
Biosystems Engineering Technology 462 ..............3
Biosystems Engineering Technology Electives .........6
Animal Science 351, Ornamental Horticulture and Landscape Design 340 or 370, or Plant and Soil Sciences 435 .................................3
*Humanities Elective ..........................................3
Electives ......................................................3

Total: 132 hours

AGRICULTURAL AND EXTENSION EDUCATION


Associate Professor: R.G. Waters, Ph.D. Ponn State.

Assistant Professor: J.S. Delnero, Ph.D. Oklahoma State.

The Department of Agricultural and Extension Education has two educational areas of emphasis, namely, Agricultural Extension Education and Agricultural Education.

AGRICULTURAL EXTENSION EDUCATION

Although no formal undergraduate curriculum is offered in Agricultural Extension Education, undergraduate courses are available as electives in each formal curriculum. These courses are designed to develop an understanding of the functions, responsibilities, and techniques of the Agricultural Extension Service; and to provide prospective Extension employees with work experience in selected training counties.

AGRICULTURAL EDUCATION

Students who complete the requirements for graduation in Agricultural Education receive a Bachelor of Science Degree in Agriculture with a Major in Agricultural Education. The curriculum is designed to prepare persons to assume educational and leadership roles in many phases of the agricultural industry, including agribusiness, schools, agencies, and farming and ranching. Emphasis is on preparing stu-
AGRICULTURAL AND BIOSYSTEMS ENGINEERING
http://bioengr.ag.utk.edu

Professors:

Associate Professors:

Advisors:

The College of Agricultural Sciences and Natural Resources, with the cooperation of the College of Engineering, offers a four-year curriculum leading to the degree of Bachelor of Science in Biosystems Engineering. The curriculum is accredited by the Engineering Commission of the Accreditation Board for Engineering and Technology (ABET). Employment opportunities are available in industry, government agencies, research and testing organizations, and educational and non-profit institutions.

The math requirement for freshman admission to the Biosystems Engineering program in 3 1/2 units, including trigonometry and geometry. Otherwise, the general admission requirements of the University apply.

Faculty of the Agricultural and Biosystems Engineering Department have established the following educational objectives to the Biosystems Engineering program.

OBJECTIVES
The Biosystems Engineering Program at the University of Tennessee is committed to linking engineering sciences and mathematics to real-world problems involving natural and man-made biologically-based systems. We strive to educate students to become engineers with the ability to serve humanity by applying engineering knowledge to solve problems facing society. This education is accomplished by providing a strong grounding in engineering fundamentals and incorporating hands-on, real-world design scenarios throughout the curriculum.

Our graduates are technically competent in engineering design. They:
- understand the steps in the engineering process;
- can define a problem;
- can gather the information required to solve a problem;
- can critically evaluate information from various sources;
- are creative and can synthesize solutions to a problem;
- can perform engineering analyses;
- can design components, machines, or systems to solve a problem;
- understand the importance of social, environmental, economic, and safety issues;
- and appreciate the role of uncertainty and risk in engineering analyses.

The curriculum provides instruction in the analytical and design skills needed to solve engineering problems related to biological and agricultural systems. Comprehensive design of systems and their components is emphasized in the senior year. Three concentrations are available: Agricultural Engineering, Biological Engineering, and Food Engineering. A concentration should be selected early in the academic program since there are differences as early as the sophomore year. Each concentration in the curriculum has provisions for elective courses to be taken in specified subject areas. Students must consult with their advisors each semester regarding the selection of courses and should outline a plan for all such electives not later than their second year of study.

Graduates may pursue careers in design and development of: mechanical technologies that minimize soil erosion and conserve water resources; biological waste treatment systems; safer agricultural machinery with lower environmental impact; and improved food and agricultural processing systems.

Students majoring in biosystems engineering are eligible to participate in the Engineering Cooperative Scholarship Program and other student activities in the College of Engineering. Biosystems Engineering majors interested in the Cooperative Engineering Scholarship program should consult with their faculty advisor or the head of the Agricultural and Biosystems Engineering Department (phone (865) 577-7266; e-mail: rwilhelm@utk.edu).

BIOSYSTEMS ENGINEERING: CONCENTRATION IN AGRICULTURAL ENGINEERING

<table>
<thead>
<tr>
<th>Hours Credit</th>
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<tr>
<td>Engineering Fundamentals 101, 102</td>
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<tr>
<td>Biosystems Engineering 103, 104</td>
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<tr>
<td>Chemistry 120</td>
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<td>*English 101, 102</td>
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<tr>
<th>Hours Credit</th>
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<tbody>
<tr>
<td>Agriculture and Natural Resources 101</td>
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<tr>
<td>Biosystems Engineering 201</td>
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<tr>
<td>Biology Elective</td>
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<tr>
<td>Engineering Science 231, 232</td>
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<tr>
<td>Historical Studies Elective</td>
<td>3</td>
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<tr>
<td>Humanities Elective</td>
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<tr>
<td>Chemistry 130</td>
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<td>Mathematics 200, 231, 241</td>
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<td>Electrical Engineering 301</td>
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<td>*Historical Studies Elective</td>
<td>3</td>
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<tr>
<td>Industrial Engineering 405</td>
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<tr>
<td>*Thermodynamics Elective</td>
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<tr>
<td>Technical Electives</td>
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</table>

Total: 134 hours

*For an equivalent honors course.
1If Mathematics placement test score is unsatisfactory, take Mathematics 130 prior to 141 (See advisor for alternate course schedule).
2Mathematics 130 will count as additional hours toward graduation.
3Select from P&SS 210 Introduction to Soil Science; Biology 130; Botany 110; Microbiology 210 and other biological science courses as approved by advisor.
4Select from EES 243 Material and Energy Flows in Biological Systems; EES 311 Processing Food and Biological Materials; EES 315 Soil and Water Conservation; and EES 331 Power Units and Machinery.
5Select from CE 390 Hydraulics or ES 341 Fluid Mechanics.
6Typically upper division courses in engineering or related areas. May also include Physics 232. Must be approved in advance by advisor.
7These electives must be approved in advance by advisor to ensure they meet university and ABET criteria.
8Select NE 331 Thermodynamics or NE 303 Thermodynamics after consultation with your advisor.

BIOSYSTEMS ENGINEERING: CONCENTRATION IN BIOLOGICAL ENGINEERING

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<thead>
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<tr>
<td>Biosystems Engineering 103, 104</td>
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<tr>
<td>Chemistry 130</td>
<td>4</td>
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<tr>
<td>*English 101, 102</td>
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</table>

<table>
<thead>
<tr>
<th>Hours Credit</th>
<th>Sophomore</th>
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<tbody>
<tr>
<td>Agriculture and Natural Resources 101</td>
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<tr>
<td>Biosystems Engineering 201</td>
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</tr>
<tr>
<td>Biology Elective</td>
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<tr>
<td>Engineering Science 231, 232</td>
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<tr>
<td>Historical Studies Elective</td>
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<tr>
<td>Humanities Elective</td>
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<tr>
<td>Chemistry 130</td>
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<tr>
<td>Mathematics 200, 231, 241</td>
<td>8</td>
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<tr>
<td>Physics 231</td>
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<td>Junior</td>
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<td>Biosystems Engineering 303, 451</td>
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<tr>
<td>*Biosystems Engineering Core Electives</td>
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<tr>
<td>Electrical Engineering 301</td>
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<tr>
<td>Fluid Science Elective</td>
<td>2</td>
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<tr>
<td>*Historical Studies Elective</td>
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<td>Industrial Engineering 405</td>
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<td>Technical Electives</td>
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Total: 134 hours

*For an equivalent honors course.
1If Mathematics placement test score is unsatisfactory, take Mathematics 130 prior to 141 (See advisor for alternate course schedule).
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4Select from EES 243 Material and Energy Flows in Biological Systems; EES 311 Processing Food and Biological Materials; EES 315 Soil and Water Conservation; and EES 331 Power Units and Machinery.
5Select from CE 390 Hydraulics or ES 341 Fluid Mechanics.
6Typically upper division courses in engineering or related areas. May also include Physics 232. Must be approved in advance by advisor.
7These electives must be approved in advance by advisor to ensure they meet university and ABET criteria.
8Select NE 331 Thermodynamics or NE 303 Thermodynamics after consultation with your advisor.
College of Agricultural Sciences and Natural Resources

Senior
Biosystems Engineering 311, 401, 402, 433 ................................ 15
\(^{1}\) Technical Elective .................................................. 3
\(^{1}\) Humanities Elective .................................................. 3
\(^{1}\) Social Sciences elective .............................................. 3
Industrial Engineering 406 .................................................. 3
Speech 210 or 240 .......................................................... 3
English 380 ............................................................... 3

Total: 134 hours

\(^{1}\) Or equivalent honors course.

\(^{2}\) Mathematics placement test score is unsatisfactory, take Mathematics 130 prior to 141
(See advisor for alternate course schedule).

\(^{3}\) Mathematics 130 will count as additional hours toward graduation.

\(^{4}\) These electives must be approved in advance by advisor to ensure they meet university and ABET criteria.

BIOSYSTEMS ENGINEERING: CONCENTRATION IN FOOD ENGINEERING

Freshman
Engineering Fundamentals 101, 102 .................................. 12
Biosystems Engineering 103, 104 ........................................ 2
Chemistry 120 .............................................................. 3
\(^{1}\) English 101, 102 .......................................................... 6
\(^{2}\) Mathematics 141, 142 .................................................. 8
Sophomore
Biosystems Engineering 201, 204 ....................................... 3
Engineering Science 231, 321 .............................................. 6
\(^{1}\) Humanities Elective .................................................. 3
Chemistry 130 .............................................................. 3
Mathematics 200, 231, 241 .................................................. 3
Microbiology 210 .......................................................... 3
Physics 231 .............................................................. 3
Junior
Biosystems Engineering 303, 451 ........................................ 7
Electrical Engineering 301 .................................................. 3
\(^{2}\) Fluid Science Elective .................................................. 3
Food Science and Technology 310, 320, 330, 340 ....................... 12
Economics 201 ............................................................. 4
\(^{2}\) Historical Studies Electives ......................................... 3
\(^{2}\) Thermodynamics Elective ......................................... 3
Senior
Biosystems Engineering 311, 401, 402, 433 ............................... 15
\(^{1}\) English 380 .............................................................. 3
\(^{2}\) Social Sciences Elective .............................................. 3
\(^{2}\) Historical Studies Elective ......................................... 3
\(^{2}\) Industrial Engineering 403 ............................................ 3
\(^{2}\) Speech 210 or 240 ..................................................... 3
\(^{2}\) Food Science and Technology 495 ................................... 3

Total: 134 hours

\(^{1}\) Or equivalent honors course.

\(^{2}\) Mathematics placement test score is unsatisfactory, take Mathematics 130 prior to 141
(See advisor for alternate course schedule).

\(^{3}\) Mathematics 130 will count as additional hours toward graduation.

\(^{4}\) These electives must be approved in advance by advisor to ensure they meet university and ABET criteria.

ENTOMOLOGY AND PLANT PATHOLOGY

Professors:
E.E. Burgess (Interim Head) Ph.D., Tennessee; E.C. Bernard, Ph.D., Georgia; R.R. Gerhardt, Ph.D., North Carolina State; J.F. Grant, Ph.D.; D. Clemson; J.W. Hilly (Emeritus), Ph.D., Ohio State; P.L. Lambdin, Ph.D., VPI and SU; C.D. Plese, Ph.D.; D. Clemson; C.J. Southards (Emeritus), Ph.D., North Carolina State; M.T. Windham, Ph.D., North Carolina State.

Associate Professors:
K.D. Gwinn, Ph.D., North Carolina State; B.H. O'neal, Ph.D., Auburn; B.B. Reddick, Ph.D., Alabama.

Assistant Professor:
Robert Pereira, Ph.D., Florida.

Advisors:
Gerhardt, Lambdin, and Plese.

No undergraduate curriculum exists in the Department of Entomology and Plant Pathology, but a program leading to the Master of Science degree with a minor in entomology and plant pathology is available (see Graduate Catalog). Courses in economic entomology, diseases and insects of ornamental plants, forest protection, plant pathology, and veterinary entomology are available to undergraduate students.

Instruction and training is provided in those disciplines which deal with the natural hazards that are major causes of losses in agricultural production, namely, insects and plant diseases. Courses of study in entomology or plant pathology should give the student an appreciation of insects, weeds, and microorganisms, their ecology, population dynamics, potential damage to plants and their products, and various considerations in control alternatives.

ANIMAL SCIENCE

Professors:
K.R. Robbins (Head), Ph.D., Illinois; K.M. Barth (Emeritus), Ph.D., Rutgers; M.C. Bell (Emeritus), Ph.D., Oklahoma State; D. Bietner (Emeritus), Ph.D., Ohio State; D.M. Chamberlain (Emeritus), Ph.D., Iowa State; G.E. Conaster, M.S., Kentucky; B.H. Emerson (Emeritus), Ph.D., Kansas State; W.W. Gill, Ph.D., Kentucky; H.C. Goan, Ph.D., Michigan State; J.D. Godkin, Ph.D., Massachusetts; W.M. Grimes, Ph.D., Kentucky; O.G. Hall (Dean Emeritus, College of Agricultural Sciences and Natural Resources), Ph.D., Iowa State; Frederick Harper, Ph.D., Rutgers; F.D. Kirkpatrick, Ph.D., Tennessee; C.D. Lane, Ph.D., Tennessee; E.R. Lidvall (Emeritus), M.S., Tennessee; P.B. Maaslinck, Ph.D., Kansas State; J.B. McLareen (Emeritus), Ph.D., Auburn; D.G. Meadows, Ph.D., Texas A&M; M.J. Montgomery, Ph.D., Wisconsin; J.B. Neel, Ph.D., Tennessee; G.K. Miller, Ph.D., Georgia; S.P. Oliver, Ph.D., Ohio State; D.O. Richardson, Dean, Agricultural Experiment Station.), Ph.D., Ohio State; A. Saxton, Ph.D., North Carolina State; H.V. Shirley (Emeritus), Ph.D., Illinois; M.H. Sims, Ph.D., Auburn; R.L. Tugwell (Emeritus), Ph.D., Kansas State.

Associate Professors:
W.R. Backus, Ph.D., Tennessee; B.R. Bell, Ph.D., North Carolina State; J.M. Grizzle, Ph.D., Florida; R.N. Heitmann, Ph.D., Maine; H.G. Kettles, Ph.D., Virginia Polytechnic Institute; A.F. Mathew, Ph.D., Purdue; F.H. Schrick, Ph.D., Clemson; B.O. Smith, Ph.D., Oklahoma State; J.C. Waller, Ph.D., Nebraska.

Assistant Professors:
J.L. Edwards, Ph.D., Florida; C.J. Richards, Ph.D., Kentucky; J.D. Smalling (Emeritus), Ph.D., Texas A&M; K.J. Stalder, Ph.D., Iowa State.

Instructor:
W.G. Upchurch, M.S., Tennessee.

Advisors:
Professors Godkin, Masincupp, and Oliver. Associate Professors Backus, Bell, Grizzle, Heitmann, Kettles, Mathew, Schrick, Smith, and Waller. Assistant Professor Richards.

The curriculum is designed to prepare students for leadership careers in livestock production and related industries. Courses in horse, swine, poultry, sheep, dairy and beef cattle production and management may be elected, providing the opportunity for special or additional training in the dynamic livestock and husbandry technology (production) areas. Through course selection, students may prepare for careers in livestock farming, management, business, or science, or elect the pre-veterinary courses preparatory for specialization. Elective selection permits special training for work with feed companies, meat animal, milk, egg, or poultry production, managerial or marketing groups, other educational agencies, supply and equipment business, agricultural extension services, agricultural communications, public relations, and various organizations associated with agriculture.

A minor in Animal Science consists of 3 credits from 260 (Animal Industry and Market Evaluation) or 280 (Farm Animal Management).
ANIMAL SCIENCE: CONCENTRATION IN PRODUCTION/MANAGEMENT

Hours Credit

Freshman
- Agriculture and Natural Resources 101 ........................................... 3
- Biology 130-140 ................................................................. 8
- English 101-102 ................................................................. 6
- Mathematics 123-125 or 141-142 or 151-152 ............................ 6-8
- Chemistry 100-110 or 120-130 .............................................. 8
- Animal Science 101 ............................................................ 1
- Social Science elective ........................................................ 3

Sophomore
- Animal Science 220, 290 .................................................. 6
- Agriculture and Natural Resources 290 ................................... 6
- Speech 210 or 240 ................................................................ 3
- *Writing Elective ............................................................... 3
- Economics 201 .............................................................. 3
- Physical Science and Math Restricted Elective .......................... 8
- Biological Science Restricted Elective .................................... 3
- *Non-Animal Science Agriculture Elective .............................. 3

Junior
- Biological Science Restricted Electives .................................... 3
- *Physical Science and Mathematics Restricted Electives ........ 6
- History ............................................................................... 6
- Animal Science 320, 330, 340, 380 ...................................... 13

Senior
- *Humanities Elective .......................................................... 3
- Biological Science Restricted Elective ..................................... 3
- Animal Science 495, and one course from 481, 482, 483, 484, 485, 486, 589 .... 4
- Agricultural Economics Elective .......................................... 3
- Non-Animal Science Agriculture Electives ............................. 6
- *Free Electives ................................................................... 10-12

Total: 132 hours

NOTE: A variety of courses may be chosen to meet the requirements of the major. The requirements for a major include a minimum of 120 semester hours, including 30 semester hours of upper division coursework, and 6 hours of English Composition, 3 hours of English Literature, and 3 hours of Social Science. The remaining coursework must be completed in the major. Each major must include a minimum of 18 semester hours of coursework, which must include a minimum of 10 semester hours of coursework from the College of Agriculture and Natural Resources. The remaining coursework must be completed in the major. Each major must include a minimum of 18 semester hours of coursework, which must include a minimum of 10 semester hours of coursework from the College of Agriculture and Natural Resources.

PRE-VETERINARY MEDICINE PROGRAM

This program allows students to be awarded a B.S. degree in Agriculture with a major in Animal Science, after the successful completion of the first two semesters in the College of Veterinary Medicine (CVM). Students must begin this program early in the pre-veterinary curriculum. The specific requirements are:

1. Completion of all pre-veterinary requirements:
   a. English Composition 101-102 (3,3) ........................................ 6 hours
   b. Humanities and Social Sciences ........................................ 18 hours
   c. Elements of Physics 221-222 (4,4) .................................... 8 hours
   d. General Chemistry 120-130 (4,4) .................................... 8 hours
   e. Organic Chemistry 350-360 and Laboratory 369 (3,3,2) ..... 8 hours
   f. Cellular and Comparative Biochemistry 410 (4) .................. 4 hours
   g. General Biology 130-140 (4,4) ....................................... 8 hours
   h. Biology 240-4 ............................................................... 4 hours
   i. Biology Elective—2 or 3 hours

2. The last 30 hours of the three-year pre-veterinary curriculum must have been taken at UT Knoxville.

3. At least 12 hours of upper division (300 and 400 level courses) technical agriculture courses must be taken at UT Knoxville.

4. In addition to all the required pre-veterinary medical courses, the following (or approved equivalents) must be completed before entering the College of Veterinary Medicine:
   a. Mathematics 123-125 or 141-142 or 151-152 .................... 8 hours
   b. Animal Science 101 ....................................................... 1 hour
   c. Agriculture 101—3 hours
   d. Animal Science 260—3 hours
   e. Animal Science 320—3 hours
   f. Animal Science 330—4 hours
   g. Animal Science 340—3 hours
   h. Animal Science 380—3 hours
   i. One course from Animal Science 481, 482, 483, 484, 485, 486, or 489—3 hours
   j. Computer Science Elective—3 hours
   k. Economics 201—3 hours
   l. Speech 210 or 240—3 hours
   m. Non-Animal Science Agriculture 6 hours

5. Satisfactory completion of the first two semesters in the CVM professional program.

6. No later than December 31 of the student's first year in the CVM (413) should contact the Animal Science Department in order to check on graduation procedures for this program.

7. A total of 132 hours must be completed by the end of the first year in the CVM.

ANIMAL SCIENCE: CONCENTRATION IN SCIENCE/TECHNOLOGY

Hours Credit

Freshman
- Agriculture and Natural Resources 101 ........................................... 3
- Biology 130-140 ................................................................. 8
- English 101-102 ................................................................. 6
- Mathematics 123-125 or 141-142 or 151-152 ............................ 6-8
- Chemistry 100-110 or 120-130 .............................................. 8
- Animal Science 101 ............................................................ 1
- Social Science elective ........................................................ 3
This curriculum meets the requirements for entrance to the CVM; after the first successful year in the CVM, the student will be awarded a B.S. in Agriculture with a major in Animal Science. Should the student not gain admittance to the CVM after the Junior year, the student could complete the requirements for a major in Animal Science during the Senior year.

**FOOD SCIENCE AND TECHNOLOGY**

Professors:
- C.J. Brekke (Head), Ph.D. Wisconsin; J.L. Collins (Emeritus), Ph.D. Maryland; R.M. Davidson, Ph.D. Washington State; F.A. Draughon, Ph.D. Georgia; H.O. Jaynes (Emeritus), Ph.D. Illinois; C.C. Melton, Ph.D. Kansas State; S.L. Metton, Ph.D. Tennessee; J.T. Miles (Emeritus), Ph.D. Wisconsin; W.C. Morris, Ph.D. Iowa State; W.W. Overcast (Emeritus), Ph.D. Iowa State; M.P. Penfield, Ph.D. Tennessee.

Associate Professors:
- D.A. Golden, Ph.D. Georgia; H.D. Loveday, Ph.D. Kansas State; J.R. Mount, Ph.D. Ohio State.

Assistant Professors:
- G. Hubert, Ph.D. Illinois; R.L. van Laack, Ph.D. Utrecht; J. Weiss, Ph.D. Massachusetts.

Advisors:
- Collins, Draughon, Golden, Loveday, Metton, Mount and Penfield.

The curriculum concentrations in Food Science and Technology include a science concentration, a business/technology concentration, and a pre-professional concentration. They prepare students to apply basic scientific and business principles to manufacturing, processing, distribution, and utilization of food products that meet the needs and desires of consumers. Coursework emphasizes the basic principles of converting raw food materials into safe acceptable consumer products. Selected commodity courses detail processing of specific types of food materials. Students entering the program should have an interest in the sciences, such as chemistry, microbiology, and biology.

Career opportunities include positions in the food industry in quality assurance, production management, marketing, governmental inspection, etc. The science concentration of coursework conforms to the guidelines in the model curriculum of the Institute of Food Technologists. The business/technology concentration allows students to obtain an agri-business or business minor. A single problems course provides opportunity for practical training in food processing plants and laboratories or federal and state laboratories.

The minor in Food Science and Technology requires a minimum of 17 hours as follows: 140, 310, 320-329, 340, and one elective course in Food Science and Technology.

**FOOD SCIENCE AND TECHNOLOGY: CONCENTRATION IN SCIENCE**

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<tr>
<th>Freshman</th>
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<tr>
<td>English 101-102</td>
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<tr>
<td>Math 123-125 or 141-142</td>
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<tr>
<td>Biological Science</td>
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<td>Food Science and Technology 140</td>
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<td>Chemistry 120-130</td>
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<td>Chemistry 350, 360-369</td>
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<td>Food Science and Technology 340</td>
<td></td>
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<tr>
<td>Agriculture and Natural Resources 290</td>
<td></td>
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</tr>
<tr>
<td>Nutrition 100 or 300</td>
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</tr>
<tr>
<td>Social Science Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Ethics Elective</td>
<td></td>
<td>3</td>
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<tr>
<td>Humanities Elective</td>
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<td>3</td>
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<tr>
<td>Junior</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Food Science and Technology 310</td>
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<tr>
<td>Food Science and Technology 320-3295</td>
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<tr>
<td>BOMB 310 or 410</td>
<td></td>
<td>4</td>
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<tr>
<td>Economics 201</td>
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<tr>
<td>History Elective</td>
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<td>6</td>
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<tr>
<td>Food Science and Technology Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Speech 210, 220 or 240</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Plant and Soil Science 471 or Statistics 2013</td>
<td></td>
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<tr>
<td>Total: 132 hours</td>
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<td>4</td>
</tr>
</tbody>
</table>

1 May be chosen from Biology 101, 130 or Botany 110.
2 May be chosen from approved list of courses meeting University requirements as Social Sciences.
3 May be chosen from approved list of courses meeting University requirements as Humanities.

**FOOD SCIENCE AND TECHNOLOGY: CONCENTRATION IN BUSINESS TECHNOLOGY**

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Hours</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101-102</td>
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<td>6</td>
</tr>
<tr>
<td>Math 115 or 122 or 123</td>
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<tr>
<td>Biological Sciences</td>
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<td>Food Science and Technology 140</td>
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</tr>
<tr>
<td>Agriculture and Natural Resources 101</td>
<td></td>
<td>3</td>
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<tr>
<td>Social Science Elective</td>
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<tr>
<td>Ethics Elective</td>
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<tr>
<td>Humanities Elective</td>
<td></td>
<td>3</td>
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<tr>
<td>Sophomore</td>
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<td>6</td>
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<tr>
<td>Chemistry 110</td>
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<td>4</td>
</tr>
<tr>
<td>Microbiology 210</td>
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</tr>
<tr>
<td>Food Science and Technology 340</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Sex and Technology 330</td>
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<tr>
<td>Agriculture and Natural Resources 290</td>
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</tr>
<tr>
<td>Nutrition 100 or Animal Science 330</td>
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<tr>
<td>Statistics 201</td>
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<tr>
<td>*Ethics Elective</td>
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<tr>
<td>Directed Technology/Business Electives</td>
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<tr>
<td>Economics 201</td>
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</tbody>
</table>

1 May be chosen from Biology 101, 130 or Botany 110.
2 May be chosen from approved list of courses meeting University requirements as Social Sciences.
3 May be chosen from approved list of courses meeting University requirements as Humanities.
4 May be chosen from approved list of courses meeting University requirements as Social Sciences.

**FOOD SCIENCE AND TECHNOLOGY: PREPROFESSIONAL CONCENTRATIONS**

These programs in Pre-Dental, Pre-Medicine, Pre-Pharmacy, and Pre-Veterinary Medicine allow students to be awarded a B.S. degree in Agriculture with a major in Food Science and Technology, after three years and the successful completion of the first year (two semesters) in UT-Memphis College of Dentistry or Pharmacy programs or UT Knoxville College of Veterinary Medicine. The last 30 hours of the three-year curriculum must have been taken at UT Knoxville. A total of 132 hours must be completed by the end of the first year in professional school. No later than December 1 of the student's first year in professional school (s)he should contact the Department of Food Science and Technology in order to check on graduation procedures for this program.

Although a B.S. degree is not required for admission to the Colleges of Dentistry or Medicine, most of the students accepted into these programs have the bachelor's degree before admission. Therefore students are encouraged to plan to complete all requirements for a B.S. degree before enrolling in either of these colleges. A B.S. degree can be obtained before enrolling in the Doctor of Pharmacy program.

Should the student not gain admittance after the Junior year, the student could complete the requirements for a major in Food Science and Technology during the Senior year.
FOREST RESOURCES MANAGEMENT CONCENTRATION

The Forest Resources Management Concentration provides an opportunity to obtain an education related to the management of the broad spectrum of forest resources. In addition to the core of required courses, there are about 18 elective credit hours for broad studies or specialized training in one or more areas of forestry. These areas and examples of related fields of study are: Forest Biology including plant physiology and morphology, ecology, genetics, tree nutrition, forest soils; Forest Business Management including economics, accounting, finance, marketing, management science; Forest Economics including economics, business administration, social science; Forest Inventory including mathematics, statistics, computer science, photogrammetry; Forest Recreation including natural and social sciences; and Wildlife Management including ecology and botany.

The University has over 21,000 acres of forest land available for teaching, research,
and demonstration. The Tennessee Valley Authority, Great Smoky Mountains National Park, and other federal and state agencies and private or non-profit organizations provide opportunities to work in natural resource based recreation settings in private and public lands, including local, state, and national parks, and to prepare for future needs.

Students prepare for professional positions in the planning, development, interpretation, and management of private and public lands for recreational purposes. Students also learn the basic philosophy and principles associated with the use of leisure time and the relationship of natural resources to the recreational use of leisure time.

Elective credits may be used to obtain in-depth education in ornamental horticulture and landscape design, business and public administration, and the natural sciences, including ecology, botany, zoology, and geology as well as recreation and leisure studies, such as private/commercial and therapeutic recreation.

WILDLIFE AND FISHERIES SCIENCE

Wildlife and fisheries management is the science and art of maintaining populations of wild animals at levels consistent with the best interests of wild species and of the public. Management goals may be aesthetic, economic, or ecological. Success depends upon wildlife and fisheries biologists providing assistance; scholarly application of scientific information and methods to these goals; ecological perspectivie; and execution of programs to maintain past successes, to prevent repetition of past failures, and to prepare for future needs.


Freshman

<table>
<thead>
<tr>
<th>Hours Credit</th>
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</thead>
<tbody>
<tr>
<td>English 101,102</td>
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<tr>
<td>Mathematics 119, 125</td>
</tr>
<tr>
<td>Botany 110, 120</td>
</tr>
<tr>
<td>Agriculture and Natural Resources 101</td>
</tr>
<tr>
<td>Forestry, Wildlife and Fisheries 100, 211</td>
</tr>
<tr>
<td>*Social Sciences Elective</td>
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<td>*Electives</td>
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Sophomore

<table>
<thead>
<tr>
<th>Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 201</td>
</tr>
<tr>
<td>Statistics 201</td>
</tr>
<tr>
<td>Agriculture and Natural Resources 290</td>
</tr>
<tr>
<td>Speech 210 or 240</td>
</tr>
<tr>
<td>Biology 250</td>
</tr>
<tr>
<td>Chemistry 100</td>
</tr>
<tr>
<td>Plant and Soil Science 210</td>
</tr>
<tr>
<td>English 295</td>
</tr>
<tr>
<td>*Humanities Elective</td>
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<td>*Electives</td>
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Junior

<table>
<thead>
<tr>
<th>Hours Credit</th>
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<tbody>
<tr>
<td>Forestry, Wildlife and Fisheries 311, 312, 313, 317</td>
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<tr>
<td>Forestry 306, 306, 321, 322, 323, 324, 326, 329, 330</td>
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<tr>
<td>*Electives</td>
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Senior

<table>
<thead>
<tr>
<th>Hours Credit</th>
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<tbody>
<tr>
<td>Forestry, Wildlife and Fisheries 410, 412, 416</td>
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<tr>
<td>Forestry 331, 332, 421, 422</td>
</tr>
<tr>
<td>*Electives</td>
</tr>
<tr>
<td>*History Elective</td>
</tr>
<tr>
<td>*Communications Elective</td>
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<tr>
<td>*Electives</td>
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</table>

Total: 136 hours

*Lists of appropriate courses in Social Sciences, Humanities, History, and Communications are available at the Department of Forestry, Wildlife and Fisheries Office.

*Electives are chosen in conference with advisor.

Students prepare for professional positions in the planning, development, interpretation, and management of private and public lands for recreational purposes. Students also learn the basic philosophy and principles associated with the use of leisure time and the relationship of natural resources to the recreational use of leisure time.

Elective credits may be used to obtain in-depth education in ornamental horticulture and landscape design, business and public administration, and the natural sciences, including ecology, botany, zoology, and geology as well as recreation and leisure studies, such as private/commercial and therapeutic recreation.

WILDLIFE AND FISHERIES SCIENCE

Wildlife and fisheries management is the science and art of maintaining populations of wild animals at levels consistent with the best interests of wild species and of the public. Management goals may be aesthetic, economic, or ecological. Success depends upon wildlife and fisheries biologists providing assistance; scholarly application of scientific information and methods to these goals; ecological perspective; and execution of programs to maintain past successes, to prevent repetition of past failures, and to prepare for future needs.


Freshman

<table>
<thead>
<tr>
<th>Hours Credit</th>
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</thead>
<tbody>
<tr>
<td>English 101, 102</td>
</tr>
<tr>
<td>Mathematics 119, 125</td>
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<tr>
<td>Botany 110, 120</td>
</tr>
<tr>
<td>Lower division Psychology or lower division Sociology or Urban Studies or Anthropology</td>
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<tr>
<td>Agriculture and Natural Resources 101</td>
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<tr>
<td>Forestry, Wildlife and Fisheries 100, 211</td>
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<td>*Electives</td>
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Sophomore

<table>
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</thead>
<tbody>
<tr>
<td>Economics 201</td>
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<tr>
<td>Statistics 201 or Psychology 365</td>
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<tr>
<td>Agriculture and Natural Resources 290</td>
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<tr>
<td>Chemistry 100</td>
</tr>
<tr>
<td>Speech 210 or 240</td>
</tr>
<tr>
<td>Upper division Psychology or upper division Sociology or Geography 393 or 394</td>
</tr>
<tr>
<td>Journalism 211 or 412 or 450 or 451</td>
</tr>
<tr>
<td>or English 295</td>
</tr>
<tr>
<td>Plant and Soil Science 210</td>
</tr>
<tr>
<td>Biology 250</td>
</tr>
<tr>
<td>Speech 220 or 230 or 270 or 310 or 320 or 330 or 420</td>
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<td>*Electives</td>
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Junior

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Forestry, Wildlife and Fisheries 311, 312, 313, 317</td>
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<tr>
<td>Forestry 321, 432</td>
</tr>
<tr>
<td>Wildlife and Fisheries Science 341</td>
</tr>
<tr>
<td>6 hours from Recreation 310, 410, 415, 430</td>
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<td>OHDL 280, 370</td>
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<td>*Electives</td>
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<td>*Electives</td>
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Senior

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<thead>
<tr>
<th>Hours Credit</th>
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</thead>
<tbody>
<tr>
<td>Forestry, Wildlife and Fisheries 410, 412, 416</td>
</tr>
<tr>
<td>Forestry 421, 422</td>
</tr>
<tr>
<td>Forestry, Wildlife and Fisheries 410 or Wildlife and Fisheries Science 443 or 444 or 445</td>
</tr>
<tr>
<td>Forestry 421, 422</td>
</tr>
<tr>
<td>Management 301 or 440 or Accounting 201 or Political Science 440 or 441 or Planning 402</td>
</tr>
<tr>
<td>*Humanities Elective</td>
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<tr>
<td>*History Elective</td>
</tr>
</tbody>
</table>

Total: 136 hours

*Lists of appropriate courses in Humanities and History are available at the Department of Forestry, Wildlife and Fisheries Office. Students are encouraged to take some of the history and humanities courses at the 300 and 400 level. 3 hours of the humanities or history electives must be written intensive courses.


ORNAMENTAL HORTICULTURE AND LANDSCAPE DESIGN

Professors:

R.N. Trigiano (Interim Head), Ph.D. North Carolina State; M.L. Albrecht (Interim Dean, College of Agricultural Sciences and Natural Resources), Ph.D. Ohio State; R.M. Augs, Ph.D. Washington State; L.M. Callahan (Emeritus), Ph.D. Rutgers; E.T. Graham (Emeritus), Ph.D. Pennsylvania State; G.L. McDaniel, Ph.D. Iowa State; D.B. Williams (Emeritus), Ph.D. Pennsylvania State.

Associate Professors:

J.W. Day, Ph.D. Mississippi State; S.M. Rogers, M.L.A. Georgia; T.W. Starman, Ph.D. Texas A&M.
Assistant Professors:

U.T. Agricultural Extension Service Faculty:
G.D. Crater, Ph.D. Ohio State, Professor; T.J. Samples, Ph.D., Oklahoma State, Professor.

Advisors:
Day, McDaniel, Menendez, Rogers, Starman, and Hamilton.

The Department of Ornamental Horticulture and Landscape Design (OHLD) of the University of Tennessee provides quality academic instruction to undergraduate and graduate students. The department is staffed by experienced instructors who are committed to the success of their students. OHLD advisors give students sound advice in the selection of career specialties, elective courses, and provide students the best education possible. Professors want their students to be successful and enjoy positive teacher-student relationships. They keep track of job openings and assist students during the job selection process. Since most OHLD teachers are also research scientists, advisors are available at selected local, regional, and national companies or institutions. Part-time summer or semester internships are available from OHLD, other university departments and laboratories and local commercial firms. For more information about undergraduate and other departmental programs, please contact our web site at:
http://ohld.ag.utk.edu

OHLD CAREER SPECIALTIES

The four concentrations reflect the various career paths open to graduates. Opportunities exist within floriculture (the field of growing, marketing and designing with flowers and plants), turfgrass management (growing and managing turfgrasses used for golf courses, parks, athletic fields, and residential and commercial lawns), wholesale nursery production (the production of trees, shrubs and other woody ornamental plants used by the landscape industry or sold through retail outlets), landscape construction and maintenance (installation and maintenance of residential and commercial landscapes), landscape design (creation of aesthetic concepts and practical plans for improved outdoor areas), public horticulture (the promotion of horticulture to enhance people's education and enjoyment of plants), and recreation (the collecting, merchandising and sale of ornamental plants and gardening accessories directed to the consumer).

Students select courses to meet the challenges of the different areas of ornamental horticulture by working closely with their academic advisors. Internships at various horticultural enterprises provide students the opportunity to put theory into practice and screen possible job options.

Positions that OHLD graduates hold are numerous and include the following: owner, manager, salesperson or employee of garden centers or other retail outlets; golf course superintendents and assistant superintendents; sales positions with turfgrass equipment firms, supply firms, chemical companies and flower shops; owners, supervisors or growers of turfgrass sod, nursery or floral crop operations; owners, supervisors and employees of landscape and/or lawn construction, design and/or maintenance businesses for residential, recreational and commercial properties; owners, designers, salespersons or managers with interior landscape firms; directors, curators, public relations managers, education program directors, high school or college teachers and employees of botanical gardens and arboreta; federal, state, county, city and municipal horticulturists; county extension workers in horticulture; estate manager; arborists and employees of tree care firms; garden writers; and employees of golf course construction firms. A small percentage of undergraduate students go on to graduate study.

A minor in Ornamental Horticulture and Landscape Design shall consist of 18 hours of courses in Ornamental Horticulture and Landscape Design: OHLD 110, Introduction to Ornamental Horticulture and one additional lower division course, and a minimum of 12 credit hours at the upper division. Prerequisites, if any, to these courses will not be waived, but must be included in addition to the total of 18 hours.

HORTICULTURAL SCIENCE AND MANAGEMENT CONCENTRATION

The Horticultural Science and Management Concentration is designed for the student desiring to pursue areas such as turfgrass management, floriculture, nursery production, landscape contracting and construction, or desire a general ornamental horticulture curriculum. Careful selection of OHLD courses and other electives in consultation with your academic adviser will prepare graduates for the career of their choice.

<table>
<thead>
<tr>
<th>Hours Credit</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRESHMAN</td>
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<tr>
<td>OHLD 110</td>
<td>Agriculture and Natural Resources 101</td>
</tr>
<tr>
<td>Botany 110-120</td>
<td>8</td>
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<tr>
<td>Chemistry 100-110 or 120-130</td>
<td>8</td>
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<tr>
<td>English 101</td>
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</tr>
<tr>
<td>Math 119 and (123 or 125)</td>
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<tr>
<td>SOPHOMORE</td>
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<tr>
<td>Agriculture and Natural Resources 290</td>
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<tr>
<td>Select 1 from Biostats</td>
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<tr>
<td>Engineering Technology 202, 212, 217</td>
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<tr>
<td>Botany 310</td>
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<tr>
<td>Select Biology 250; or Forestry Wildlife and Fisheries 250 and Plant and Soil Sciences 200</td>
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</tr>
<tr>
<td>Economics 201</td>
<td>3</td>
</tr>
<tr>
<td>Plant and Soil Sciences 210</td>
<td>3</td>
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<tr>
<td>Speech 210 or 240</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 211</td>
<td>3</td>
</tr>
<tr>
<td>Historical Studies Elective</td>
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</tr>
<tr>
<td>JUNIOR</td>
<td>Select 4 from OHLD 320, 330, 340, 350, 360, 370, 380, 390 or 391</td>
</tr>
<tr>
<td>OHLD 492</td>
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</table>

<table>
<thead>
<tr>
<th>Hours Credit</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>OHLD Electives</td>
<td>Select 2 from Entomology and Plant Pathology 313, 321, 410, and Plant and Soil Sciences 311, 334 or 433</td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>Historical Studies Elective</td>
<td>3</td>
</tr>
<tr>
<td>Writing or Speech Elective</td>
<td>3</td>
</tr>
<tr>
<td>Integrative Studies Elective</td>
<td>3</td>
</tr>
<tr>
<td>SENIOR</td>
<td>Select from OHLD 410, 420, 430 and 431, 440, 450, 460, 460, 465, 495, 494, or 499</td>
</tr>
<tr>
<td>OHLD 490</td>
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<tr>
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<td>Botany 321</td>
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<tr>
<td>Humanities Elective</td>
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<tr>
<td>Unrestricted Electives</td>
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</tbody>
</table>

Total: 132 hours

* A two-semester General Biology series may be substituted for Botany only if taken before entering OHLD.
* Lists of appropriate electives are available and should be selected in consultation with academic advisor.
* Selected from Business Law 301, Finance 301, Logistics 301, Management 301, 312, 314, 341, 343, Marketing 301, 310, 320 or 420. Courses should be selected in consultation with academic advisor.

BUSINESS CONCENTRATION

The Business Concentration is fundamental to those interested in starting their own companies. Students receive a minor in business administration allowing easier access to management positions as well as graduate programs such as the Masters of Business Administration (MBA) should they want to continue their education in the future.

<table>
<thead>
<tr>
<th>Hours Credit</th>
<th>Courses</th>
</tr>
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<tbody>
<tr>
<td>Freshman</td>
<td>OHLD 110</td>
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<tr>
<td>Agriculture and Natural Resources 101</td>
<td>3</td>
</tr>
<tr>
<td>Botany 110-120</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry 100-110 or 120-130</td>
<td>8</td>
</tr>
<tr>
<td>English 101-102</td>
<td>6</td>
</tr>
<tr>
<td>Math 119 and 125</td>
<td>6</td>
</tr>
<tr>
<td>Sophomore</td>
<td>Select 2 from OHLD 220, 230, or 280</td>
</tr>
<tr>
<td>Agriculture and Natural Resources 290</td>
<td>3</td>
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<tr>
<td>Accounting 201-202</td>
<td>6</td>
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<tr>
<td>Economics 201</td>
<td>3</td>
</tr>
<tr>
<td>Plant and Soil Sciences 200 and 210</td>
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<td>Speech 210 or 240</td>
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<tr>
<td>Statistics 201</td>
<td>3</td>
</tr>
<tr>
<td>Select 1 from Psychology 110 or Sociology 110</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>Junior</td>
<td>Select 4 from OHLD 320, 330, 340, 350, 360, 370, 380, 390 or 391</td>
</tr>
<tr>
<td>OHLD 492</td>
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</tr>
<tr>
<td>Business Electives</td>
<td>6</td>
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<tr>
<td>Select 2 from Botany 320, Entomology and Plant Pathology 313, 321, 410, and Plant and Soil Sciences 311, 334 or 433</td>
<td>6</td>
</tr>
<tr>
<td>Historical Studies Elective</td>
<td>3</td>
</tr>
<tr>
<td>Integrative Studies Elective</td>
<td>3</td>
</tr>
<tr>
<td>Senior</td>
<td>Select 3 from OHLD 410, 420, 430, 440, 450, 451, 460, 465, 485, 495 or 499</td>
</tr>
<tr>
<td>OHLD 490</td>
<td>1</td>
</tr>
<tr>
<td>Business Electives</td>
<td>6</td>
</tr>
<tr>
<td>Writing or Speech Elective</td>
<td>3</td>
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<td>Sociology Elective</td>
<td>3</td>
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<tr>
<td>Unrestricted Electives</td>
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</table>

Total: 132 hours
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.

**Hours Credit**

**FRESHMAN**

- OHLD 110 ............................................................... 3
- Agriculture and Natural Resources 101 .......................... 3
- Botany 110-120 .......................................................... 6
- Chemistry 100-110 or 120-130 ...................................... 8
- English 101-102 .......................................................... 6
- Math 119 and (123 or 125) ........................................... 6

**SOPHOMORE**

- Select 2 from OHLD 220, 230, 231, or 280 ................. 6
- Agriculture and Natural Resources 290 ....................... 3
- Select 1 from Psychological Studies 210; Public Relations 270; Forestry Wildlife and Fisheries 211; 250; 320
- Biology 290 ............................................................... 3
- Economics 201 ................................................................ 4
- Plant and Soil Sciences 210 ......................................... 3
- Speech 210 or 240 ........................................................ 3
- *Humanities Elective* .................................................... 3

**JUNIOR**

- Select 1 from OHLD 320, 330, 340, 350, 360, 370, 380, 390 or 391 .................................................. 10-12
- OHLD 492 ................................................................. 3
- Select 1 from Philosophy 342; Agric. and Extension Education 346; Journalism 310; 330; 340; 380; 390 or 391 .................................................. 10-12
- Botany 330 ................................................................. 3
- *Environmental/Technology Elective* .......................... 3
- *Historical Studies Elective* ........................................... 3
- *Integrative Studies Elective* ......................................... 3

**SENIOR**

- Select 4 from OHLD 410, 420, 430, 440, 450, 451, 460, 495, 496, 497, 498 or 499 .................................................. 6-11
- OHLD 490 .................................................................... 1
- OHLD 420 ................................................................. 3
- *Historical Studies Elective* ........................................... 3
- *Integrative Studies Elective* ......................................... 3
- *Technical Electives* .................................................... 3

Total: 132 hours

1 A two-semester General Biology series may be substituted for Botany only if taken before entering OHLD.
2 Lists of appropriate electives are available and should be selected in conference with academic advisor.

**ADDITIONAL ELECTIVE LIST: PUBLIC HORTICULTURE CONCENTRATION**

**TECHNICAL ELECTIVES:**

- Accounting 415
- Agriculture and Extension Education 346, 411
- Art 481
- Botany 403, 431
- Ecology and Evolutionary Biology 411, 412, 484
- Entomology and Plant Pathology 410, 530
- Forestry 423
- Interior Design 200
- Management 301
- Philosophy 342
- Plant and Soil Sciences 413, 414, 415, 615, 433, 471
- Psychosocialational Studies 210
- Psychology 400
- Public Health 410
- Public Relations 270, 470
- Recreation and Leisure Studies 410, 430
- Speech 440
- Wildlife and Fisheries 211

**ADDITIONAL ELECTIVE LIST: LANDSCAPE DESIGN CONCENTRATION**

**ENVIRONMENTAL/TECHNICAL ELECTIVES:**

- Architecture 111
- Art 295
- Biology 250
- Biosystems Engineering Technology 212, 315
- Botany 431
- Ecology 484
- Entomology and Plant Pathology 313, 321, 410
- Forestry, Wildlife, and Fisheries 211, 250
- Geography 439
- Geology 201, 202
- Plant and Soil Sciences 311, 334, 414

**PLANT AND SOIL SCIENCES**

**Professors:**

- F.L. Allen (Head), Ph.D. Minnesota; J.T. Ammons, Ph.D. West Virginia; L.E. Ashburn, Ph.D. Tennessee; F.F. Bell (Emeritus), Ph.D. Iowa State; D.L. Coffey, Ph.D. Purdue; B.V. Conger, Ph.D. Washington State; H.P. Denton, Ph.D. North Carolina State; D.E. Dayton, Ph.D. North Carolina State; W.T. Flinchum, Ph.D. Louisiana State; J.E. Foss (Emeritus), Ph.D. Minnesota; D.J. Fowlkes, Ph.D. Virginia Polytechnic Institute; C.R. Graves (Emeritus), M.S. Tennessee; H.A. Fribourg (Emeritus), Ph.D. Iowa State; R.M. Hayes, Ph.D. Illinois; R.J. Lewis (Emeritus), Ph.D. North Carolina State; D.W. Lockwood, Ph.D. Georgia; W.L. Parks (Emeritus), Ph.D. Purdue; J.H. Reynolds, Ph.D. Wisconsin; G.H. Rhodes, Ph.D. North Carolina State; A.D. Rutledge (Emeritus), Ph.D. Tennessee; C.E. Sams, Ph.D. Michigan State; D.W. Sams, Ph.D. Minnesota; P.P. Shelby, Ph.D. Tennessee; M.E. Springer (Emeritus), Ph.D. California (Berkeley); H.D. Swingle (Emeritus), Ph.D. Louisiana State; D.T. Tyler, Ph.D. Kentucky; D.R. West, Ph.D. Nebraska.

**Associate Professors:**

- G.E. Bates, Ph.D. Georgia; M.E. Essington, Ph.D. California (Riverside); W.A. Krueger (Emeritus), Ph.D. Illinois; G.M. Lessman, Ph.D. Michigan State; J. Logan, Nebraska; T.C. Mueller, Ph.D. Georgia; M.D. Mullen, Ph.D. North Carolina State; V.H. Reich, Ph.D. Iowa State; H.J. Savoy, Ph.D. Louisiana State.

**Assistant Professors:**


**Advisors:**

- Allen, Coffey, Dayton, Lessman, Logan, Mullen, Reich, Reynolds, and C.E. Sams.

Plant and Soil Sciences provides a solid background in science while preparing students to apply this knowledge to many technical aspects of plant, soil, and environmental sciences. Plant science includes crop ecology and physiology; crop breeding and genetics for crop improvement and for the introduction of improved varieties; crop management for the maximization of crop yield and quality; and weed control for efficient crop production. Soil science includes soil formation and classification for a better understanding of our soil sources; soil management for optimum crop production, soil conservation and environmental quality; and soil nutrient management for efficient fertilizer and biosolids utilization.

The Plant and Soil Sciences major must have knowledge of the basic chemical, physical, and biological sciences and be trained in communication and computer skills. The student may be broadly trained or may specialize...
in a more specific phase of the subject. The Plant and Soil Sciences major has three concentrations: Science/Technology Concentration, Management/Consulting Concentration, and Environmental Science and Natural Resources Concentration. Within each concentration, the basic curricular requirements for the College of Agricultural Sciences and Natural Resources are fulfilled, while the appropriate selection of the many electives available in the curriculum permits students to design a program of study to meet their individual interests and career goals. A departmental advisor will assist in designing a program to meet the student’s objectives and prepare students for the numerous job opportunities available in science, business, and education.

A minor in Plant and Soil Sciences consists of 18 credit hours including 210, 330, 353 and at least 9 elective hours. Plant and Soil Sciences 471 will not be accepted as a course to meet minor requirements.

**SCIENCE/TECHNOLOGY CONCENTRATION**

The science and technology concentration is especially designed to qualify students for professional certification and to prepare students for graduate study in the plant science and soil science disciplines. Through the appropriate selection of technical electives, students can qualify for certification as a soil scientist, crop scientist, agronomist, or horticulturist. Students can also prepare themselves for graduate study in crop ecology and physiology, crop breeding and genetics, weed science, soil genesis and classification, soil management and conservation, soil fertility, environmental sciences, soil chemistry and mineralogy, soil hydrology and physics, and soil microbiology and biochemistry.

**Hours Credit**

**Freshman**

- English 101, 102 .......... 6
- Agriculture and Natural Resources 101, 290 .......... 6
- Botany 110, 120 .......... 3
- Chemistry 120, 130 .......... 3
- Math 151, 152 or 141, 142 .......... 6-8

**Sophomore**

- Plant and Soil Sciences 210 .......... 3
- Biology 240 .......... 3
- Physics 221 .......... 3
- Geology 101 .......... 3
- Microbiology 210 .......... 3
- Economics 201 .......... 4
- Speech 210 or 240 .......... 3
- History 240 .......... 3
- Humanities Elective .......... 3
- History Elective .......... 3

**Total:** 132 hours

**A two-semester General Biology series may be substituted for Botany only if taken before entering Plant and Soil Sciences.**

**Jr.**

- Plant and Soil Sciences 310, 330, 334, 353 .......... 12
- Botany 321 .......... 3
- Integrated Studies Elective .......... 3
- History Elective .......... 3
- Plant and Soil Sciences Electives .......... 3
- Technical Electives .......... 3

**Senior**

- Plant and Soil Sciences 401, 412, 413, 431, 471 .......... 13
- Non-departmental Agriculture Electives .......... 3
- English 295, 380 or Journalism 414, 450, or 451 .......... 3
- Humanities Elective .......... 3
- Social Science Elective .......... 3
- Elective .......... 3

**Total:** 132 hours

**MANAGEMENT/CONSULTING CONCENTRATION**

The management and consulting concentration permits the student to obtain a B.S. in Agriculture with a major in Plant and Soil Sciences and a minor in either Agricultural Economics and Business (AEB) or Business Administration (BA). This concentration is designed for the student whose goal is to enter a management training program in agribusiness or consulting firms, as well as for those students who may wish to start their own business, whether it be associated with farm operation or some other aspect of management or consulting. Directed technical electives allow the student to concentrate in an area of their interest. Additionally, graduates of this concentration have the option of pursuing the M.S. degree in Plant and Soil Sciences or Agricultural Economics or the M.B.A. degree in Business Administration. Graduates of this concentration may also be eligible to become professionally certified in various specialized fields through the appropriate selection of electives.

**Hours Credit**

**Freshman**

- English 101, 102 .......... 6
- Agriculture and Natural Resources 101 .......... 3
- Botany 110, 120 .......... 3
- Chemistry 120, 130 .......... 3
- Math 119, 125 or 130, 151 or 151, 152 .......... 6-7

**Sophomore**

- Plant and Soil Sciences 210, 330 .......... 6
- Agriculture and Natural Resources 290 .......... 3
- Accounting 201, 202 .......... 6
- Economics 201 .......... 4
- Physical Geology 102 .......... 3
- Speech 210 or 240 .......... 3
- Humanities Elective .......... 3
- Social Science Elective .......... 3
- History Elective .......... 3
- Junior

- Plant and Soil Sciences 311, 334, 353, 471 .......... 12
- Plant and Soil Sciences Elective .......... 3
- "AEB or BA" courses .......... 6
- Entomology and Plant Pathology 313 or 321 .......... 3
- Integrated Studies Elective .......... 3
- History Elective .......... 3

**Total:** 132 hours

**A two-semester General Biology series may be substituted for Botany only if taken before entering Plant and Soil Sciences.**

**ENVIRONMENTAL SCIENCE AND NATURAL RESOURCES CONCENTRATION**

The Environmental Science and Natural Resources concentration is a science oriented curriculum that provides a strong, broad background in the natural sciences. The plan of study emphasizes land use problems and their impacts on long-term use and productivity as well as on surface and sub-surface water resources. To facilitate this, the student is directed into a core of courses that emphasize the soil and plant sciences. Directed technical electives allow the students to concentrate in one of their interest. This concentration will introduce students to natural resource problems and their management, including soil and water conservation issues, land use problems, waste disposal, and reclamation of disturbed lands. Other areas of interest can be addressed through the appropriate selection of technical electives in the program. Students in this program will gain the practical knowledge necessary to compete for career opportunities in government, environmental consulting firms, public health services, environmental research laboratories, and agricultural production, while also gaining the theoretical training necessary for continuing on for advanced degrees in a number of environmentally related fields.

**Hours Credit**

**Freshman**

- English 101, 102 .......... 6
- Agriculture and Natural Resources 101 .......... 3
- Botany 110, 120 .......... 3
- Chemistry 120, 130 .......... 3
- Math 130, 151 or 152, 141, 142 .......... 6-8

**Sophomore**

- Plant and Soil Sciences 210 .......... 3
- Agriculture and Natural Resources 290 .......... 3
- Biology 240 .......... 3
- Forestry, Wildlife and Fisheries 211 or 250 .......... 3
- Economics 201 .......... 3
- Speech 210 or 240 .......... 3
- Humanities Elective .......... 3
- History Elective .......... 3
- Junior

- Plant and Soil Sciences 311, 331, 334, 353 .......... 12
- Plant and Soil Sciences Elective .......... 3
- "AEB or BA" courses .......... 6
- Entomology and Plant Pathology 313 or 321 .......... 3
- Integrated Studies Elective .......... 3
- History Elective .......... 3

**Senior**

- Plant and Soil Sciences 401, 413, 431, 471, 481 .......... 10
- Plant and Soil Sciences 315 or 412 or 413 or 431 or 471 or 481 .......... 3
- Agricultural Economics 470 or Economics 482 .......... 3
- Engineering Elective .......... 3
- Social Science Elective .......... 3
- Directed Technical Electives .......... 3
- Open Electives .......... 3-6

**Total:** 132 hours

**A two-semester General Biology series may be substituted for Botany only if taken before entering Plant and Soil Sciences.**

Entering students with ACT scores of 26 or higher in the Math section are encouraged to enroll in Math 151, 152, 141, 142 series. Students may also choose Math 103, 105, 105 or 115. A grade of B or better is required of all students whose ACT scores are less than 22 in the Math section. **Lists of appropriate electives are available and should be selected in conference with academic advisor.**
ELECTIVES LIST: SCIENCE/TECHNOLOGY CONCENTRATION

INTEGRATED STUDIES ELECTIVES:
- American Studies 310
- Anthropology 130, 310, 311, 312, 313, 314, 315, 319, 320, 360, 361
- Botany 305
- Geography 320, 323, 340, 361
- Rural Sociology 380
- Sociology 340, 345, 346, 462, 464
- University Studies 310, 311, 320, 321, 322, 410, 420

NON-DEPARTMENT AGRICULTURE ELECTIVES:
- Agricultural Economics 210, 342, 350
- Biosystems Engineering Technology 212, 432, 442, 462
- Biosystems Engineering 423
- Animal Science 330, 381
- Entomology and Plant Pathology 313, 321, 325
- Forestry, Wildlife and Fisheries 211, 250, 313, 317
- Ornamental Horticulture and Landscape Design 310, 330, 340
- Wildlife and Fisheries Science 443, 444

PLANT AND SOIL SCIENCES ELECTIVES:
- Plant and Soil Sciences 230, 311, 315, 413, 414, 415, 431, 432, 433, 435, 453

DIRECTED TECHNICAL ELECTIVES:
- Biological Sciences
  - Biology 130, 140, 250
  - Biochemistry 310, 410, 419
  - Botany 305, 390, 403, 404, 412, 431, 451
  - Ecology and Evolutionary Biology 380, 403, 431, 446, 460, 470, 474, 484
  - Entomology and Plant Pathology 313, 321, 325, 410
  - Microbiology 310, 319, 440, 449, 470
  - Public Health 310
  - Physical Sciences/Math/Data Management
  - Biochemistry and Cellular and Molecular Biology 471, 481
  - Chemistry 310, 319, 320, 360, 369, 471, 481
  - Geography 310, 334, 411, 412, 413, 434
  - Geology 310, 370, 450, 460, 485
  - Math 231, 241, 251, 405
  - Physics 222
  - Statistics 251, 252, 261, 302, 321, 411

ELECTIVES LIST: MANAGEMENT/CONSULTING CONCENTRATION

INTEGRATED STUDIES ELECTIVES:
- American Studies 310
- Anthropology 130, 310, 311, 312, 313, 314, 315, 319, 320, 360, 361
- Geography 320, 323, 340, 361
- Rural Sociology 380
- Sociology 340, 345, 346, 462, 464
- University Studies 310, 311, 320, 321, 322, 410, 420

SOCIAL SCIENCE ELECTIVES:
- Sociology 220
- Speech 220, 230, 270, 300, 420

BUSINESS ELECTIVES:
- Business Law 301
- Finance 351
- Logistics 301
- Management 301, 321, 341, 431

NON-DEPARTMENTAL AGRICULTURE ELECTIVES:
- Biosystems Engineering Technology 442, 462
- Animal Science 330
- Entomology and Plant Pathology 313, 321, 325
- Ornamental Horticulture and Landscape Design 310, 330, 340

PLANT AND SOIL SCIENCES ELECTIVES:
- Plant and Soil Sciences 230, 311, 315, 413, 414, 415, 431, 432, 433, 435, 453

WRITING ELECTIVES:
- English 295, 355, 360, 455
- Journalism 201, 310, 414, 450, 451

ELECTIVES LIST: ENVIRONMENTAL SCIENCE AND NATURAL RESOURCES CONCENTRATION

INTEGRATED TECHNICAL ELECTIVES:
- American Studies 310
- Anthropology 130, 310, 311, 312, 313, 314, 315, 319, 320, 360, 361
- Geography 320, 323, 340, 361
- Rural Sociology 380
- Sociology 340, 345, 346, 462, 464
- University Studies 310, 311, 320, 321, 322, 410, 420

DIRECTED TECHNICAL ELECTIVES:
- Soil (Land) Resources Group
  - Biosystems Engineering 315
  - Biosystems Engineering Technology 212, 442
- Botany 330, 431
- Chemistry 310, 319, 320, 360, 369, 471, 481
- Plant and Soil Sciences 292, 315, 412, 414, 415, 432, 433
- Geography 310, 411, 412, 413, 434
- Geology 102, 103, 202, 310, 450, 455
- Lower Division Physics

- Biological Resources Group
  - Biochemistry 310, 410, 419
- Biochemistry 410, 419
- Botany 140, 240
- Botany 310, 321, 330, 403, 404, 412, 431, 451
- Chemistry 310, 319, 320, 360, 369, 471, 481
- Ecology and Evolutionary Biology 380, 403, 431, 484
- Entomology and Plant Pathology 313, 321
- Forestry, Wildlife and Fisheries 211, 250, 311
- Geography 439
- Microbiology 310, 319, 440, 449, 470
- Plant and Soil Sciences 331, 334, 353, 431, 433, 435, 453
- Lower Division Physics

- Water Resources Group
  - Biosystems Engineering 315
- Biosystems Engineering Technology 442
- Chemistry 310, 319, 320, 360, 369, 471, 481
  - Geography 310, 334, 411, 412, 413, 434, 436
  - Geology 485
- Ecology and Evolutionary Biology 470, 474
- Plant and Soil Sciences 315, 415
  - Lower Division Physics

ENGINEERING ELECTIVES:
- Biosystems Engineering 243, 315
- Biosystems Engineering Technology 212, 442, 462
- Civil and Environmental Engineering 486
  (prerequisites are Biosystems Engineering 243 and Math 142)
College of Architecture and Design

Marleen Kay Davis, Dean
Max A. Robinson, Director, School of Architecture
Jon Coddington, Head of Graduate Program in Architecture
Josette Rabun, Coordinator of Interior Design

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 which 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 both art, architecture, and interior design students who occupy extensive studio space surrounding an open Commons space, filled with natural light. A cafe 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. Architecture students have an extensive woodshop and modelmaking shop, darkrooms, experimental building platform, electronic studio, and presentation spaces.

Throughout the design studios, 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, and other information that may be requested by the College. The College will typically accept applicants with a total of 80 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 may also request a portfolio or other information from applicants. Applicants will be informed of their status by April 15 of each year.

**PORTFOLIO**

Most applicants should anticipate being asked to submit a portfolio of personal work. The purpose of the portfolio is to demonstrate visual talent and potential. The following guidelines have been established to assist applicants in selecting samples of personal work for the portfolio:

- Include at least three freehand sketches.
- Include other examples of art work, photography, graphic design, computer design work, or anything else which may demonstrate visual abilities.
- 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 for a design project.
- Submission of the original item is not necessary; inexpensively reproduced drawings, photographs, and photocopies are acceptable.
- Aim for quality rather than quantity in selecting work: 10-20 examples of personal work would be an ideal number of items.
- 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.

All work should be neatly assembled in an 8 1/2" x 11" portfolio or organized folder/Notebook. In addition, include a self-addressed stamped mailer for the return of the portfolio.

The portfolio should be sent directly to the College of Architecture and Design and will be reviewed by members of the College Admissions Committee.

**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, 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 drawing and/or art courses as a way to develop visual ability. Extensive drafting, mechanical drafting 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.