

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 Equity and Diversity (OED); 1210 Terrace Avenue; Knoxville, Tennessee 37996-3560; telephone (865) 974-2498 (TTY available). Requests for accommodation of a disability should be directed to the ADA Coordinator at the Office of Human Resources Management; 600 Henley Street; Knoxville, Tennessee 37996-4125.

A project of UT 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 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; The University of Tennessee; 413 Student Services Building; Knoxville, Tennessee 37996-0248.

Publication Authorization Number: E01-0425-003-01

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ACADEMIC CALENDAR FOR 2001-2002

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FALL SEMESTER, 2001

August 22	Classes Begin
September 3	LABOR DAY HOLIDAY
October 11-12	Fall Break
November 22-23	THANKSGIVING HOLIDAYS
December 6	Classes End
December 7	Study Period
December 8, 10-13	Final Examinations
December 15	Commencement

SPRING SEMESTER, 2002

January 9	Classes Begin
January 21	MARTIN LUTHER KING, JR. HOLIDAY
March 18-22	SPRING BREAK
March 29	SPRING RECESS
April 29	Classes End
April 30, May 1	Study Period
May 2-4, 6, 7	Final Examinations
May 11	Commencement

MINI-TERM 2002

May 8-May 29	Mini-Term
May 27	MEMORIAL DAY HOLIDAY

SUMMER TERM 2002

May 30	Classes Begin
July 3	First Session Ends
July 4	INDEPENDENCE DAY HOLIDAY
July 5	Second Session Begins
August 7	Second Session Ends

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JANUARY						
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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 campus at Knoxville, the Health Science Center at Memphis, the Space Institute at Tullahoma, and statewide institutes of agriculture and public service.

The campus at Knoxville is the only public institution in the state with the Carnegie classification of "doctoral/research university-extensive." The campus offers more than 300 degree programs to its 25,500 students, who come from every county in Tennessee, every state in the nation, and more than 100 foreign countries.

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

The campus has new Research Centers of Excellence in advanced materials, food safety, environmental biotechnology, structural biology, and information technology. The centers are expected to attract major federal grant support and spin off business and jobs to benefit Tennessee.

Information technology is central to the classrooms and offices of the university. All residence hall rooms are wired for the Internet, computer laboratories are constantly being updated, and more than 350 class sections have a Web presence.

UT-Battelle manages the Oak Ridge National Laboratory, located 25 miles northwest of campus. UT's involvement places it 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.

The university's libraries have more than 2 million volumes as well as online access to numerous prestigious collections.

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 off-campus students, particularly working adults 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 nondenominational 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 1892, 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, Mississippi, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia. 15 doctoral, 24 Master's, and 30 Bachelor's programs at UT 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 degree program, 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, 592 Tenth Street, N. W., Atlanta, GA 30318-5790, (404) 875-9211, fax: (404) 872-1477; e-mail: ann.creech@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 readmissions counseling, academic advising, peer support programs, orientation programs, information about careers, 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 are under the direction of the Department of Intercollegiate Athletics for Women, Joan Cronan, Director.

There are men's teams in football, basketball, cross country, 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.

A varied intramural and sports club program is provided for all students. These programs are directed by the Office of Recreation and are housed at the Student Aquatic Center.

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, and 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 were in place for the 2000 season, bringing total capacity to 104,079.

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 programming and services as an on-going part of the University's retention efforts. The Tutorial and Early Alert Programs—along with the Resource Library and 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, Cornel 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; information about a wide variety of internships, annual Career Fairs providing opportunity to speak informally with representatives from hundreds of different employers about their entry level jobs and hiring practices; and an annual Summer Job Festival.

Also available are: Resume Critiques; Video-taped Mock Interviews; 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 during the year of graduation and require registration. A state-of-the-art web-based information and scheduling system is used. Thousands of interviews are scheduled each year which include approximately 500 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 on the departmental website and in the Career Resource Center. An Alumni Placement Service offers assistance in the job 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://career.utk.edu>.

CENTER FOR INTERNATIONAL EDUCATION

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

The goal of the Center for International Education, 1620 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 adjust-

ment 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, to 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 for International Education. 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, craftspersons and architects are sponsored on a regular basis by the School of Art and the College of Architecture and Design. 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 three to four 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 the campus.

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

Arrowmont School of Arts and Crafts, a UT 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 Claxton Education Building, and features work by elementary, high school and university students and by regional artists. The gallery is open year-round 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 exhibited 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, 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. www.wuot.org

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 popular music 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. Bands, comedians, 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 and 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, recovered 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 Voice" highlights life in the Nile Valley from the predynastic 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 Audigier Gallery showcases selections made in a variety of materials such as ceramics, glass, textiles and metals from the Museum's collections. Some aspects of the geological sciences and the natural history of Tennessee are also displayed on the main floor. 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 in Tennes-

see. The Verhagen Gallery contains temporary exhibitions that change two or three times a year. Temporary lobby 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, Women's Chorale, Men's Choral, Chamber Singers, and UT Singers.

The UT Opera Theatre 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 repertory.

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, choirs, 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 1974 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 aims 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.

DISABILITY SERVICES

The Office of Disability Services (ODS) is committed to providing equal opportunities for students and employees with disabilities at the University of Tennessee. The primary objective for the office is to eliminate accessibility barriers in order to provide individuals with disabilities equal access to academic, social, career, cultural, and recreational opportunities offered within the university.

To ensure that services are provided in a timely manner, prospective students with disabilities are encouraged to contact ODS one month prior to the semester in which they plan to attend. Contact with the students prior to registration enables the ODS staff to better assess the need for interpreters, readers, accessible facilities, and other support services. Van service is also provided to those individuals with mobility limitations whether permanent or temporary. Documentation of the disability within the last three years from an attending physician or psychologist is required.

To contact the office, call (865) 974-6087, fax: (865) 974-9552, or e-mail: www.ods.edu. To view the web site: ods.utk.edu.

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 Presidential Court Cafe, Sophie's Place, and Morrill Dining facilities as many times as you like and eat as much as you want, full meals or snacks! You also receive \$300 bonus bucks per semester.

The Any Ten Plus Plan

You choose up to 10 meals weekly that may be eaten at Presidential Court Cafe, Sophie's Place, and Morrill Dining facilities. You also receive \$500 bonus bucks per semester.

Unlimited Access Plan

This plan allows you to eat as much as you want as often as you like at Presidential Court Cafe, Sophie's Place, and Morrill Dining facilities. You also receive \$100 bonus bucks per semester.

The Any Ten Plan

You choose up to 10 meals weekly to be eaten at Presidential Court Cafe, Sophie's Place, and Morrill Dining facilities. You also receive \$300 bonus bucks per semester.

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.

- Fees are paid on a per semester basis.
 - 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 at breakfast and ends on Sunday after lunch.
 - 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.
 - Meal equivalency is another feature of your meal plan that may be used at select retail dining facilities. Certain restrictions apply at these locations.
 - Any Ten Plus and Any Ten meal plan participants can elect to eat all their meals at Varsity Inn Dining. Please contact Dining Services for more information.
 - Students living in North Carrick, South Carrick, Humes, Reese, Gibbs, and Morrill Halls are required to select a meal plan.
 - The AllStar Account and The Diner's Club may also be used in Dining Services' facilities. Contact the VolCard Office at 974-3430 for more information on these accounts.
- To initiate or amend a meal plan, call UT Dining Services at 974-4111.

EDUCATIONAL ADVANCEMENT PROGRAM

The Educational Advancement Program is a federally funded project (Department of Education-Student Support Services) designed to provide counseling, academic advising, instructional, tutorial, and mentoring services to students with demonstrated academic needs who are also first generation college student, low income or who have physical disabilities.

The project serves 250 students and provides the following services to those who meet program eligibility criteria after application and interview:

Counseling: Trained professionals offer advice and help students develop personal strategies in matters related to financial aid, learning styles, relations with family and friends, adjustment to college, personal and career decision making.

Academic Advising: EAP Counselors provide accurate, thorough and personal one-on-one advice about general curriculum and major requirements for majors in every college in the university.

Academic review 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 (\$2,800). 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 application workshops, Graduate Record Examination preparation seminars, and graduate school visitation tours.

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 Peyton 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 any student 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 serves 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 for persons of all ages exhibiting communication disorders/differences.

The Center is accredited by the American Speech-Language-Hearing Association Professional Services Board. Further information is available at www.uthearingandspeech.org.

HOUSING

The University strives to maintain convenient and comfortable residence hall facilities which are available to all single students at a reasonable cost. Many residence halls provide 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 is conducive to academic achievement and personal development and it is therefore recommended that all students reside in University housing. All freshman 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 will be mailed as a part of the Application for Admission. Residence Hall assignments for the academic year are made in the late spring and 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 are expected to observe the same rules of conduct and standards that are applicable to all students. The student is responsible for obtaining off-campus housing. The University does 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 accom-

modated 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.

INFORMATION INFRASTRUCTURE

The Division of Information Infrastructure provides computing and telecommunications resources and services for students, faculty, and staff. DII consists of three operating units: Computing and Network Services, Customer Technology Support, and Telephone Services. Information about DII is available on the DII web site <http://dii.utk.edu>.

DII provides the core information technology infrastructure for The University of Tennessee. DII provides public-access computer labs, central computing, administrative information systems and network services, as well as information security for UT.

Individual computer accounts are provided at no charge for all UT students. These accounts may be used for e-mail, course work, research, and personal Web pages. Information and on-line registration for computer accounts are available at <http://dii.utk.edu/accounts.html>. Students are also encouraged to download Norton AntiVirus software from <http://nav.utk.edu>. The AntiVirus is also provided at no cost to students.

Students on the Knoxville campus may access the Internet through direct Ethernet or dial-up accounts. For on-campus students, each dorm room is provided with two switched 10 Mbit Ethernet ports. For off-campus students, the Enhanced Remote Access (ERA) pool is sustained by 756 modems supporting 56 Kbps analog and 64Kbps/128Kbps ISDN connections.

To provide access to computing facilities on campus, DII maintains seven staffed computing labs, 15 unstaffed labs, and supports computing installations in residence halls. The computing labs are equipped with more than 300 microcomputers including current models of Apple, Dell, and Gateway machines. In addition, there are laser printers, scanners, CD-Writers and zip drives available. A variety of industry standard software applications are available for use on the machines in the computing laboratories. For more information, please refer to <http://www.dii.utk.edu/labs.html>.

DII Help Desk

DII provides the telephone Help Desk as a centralized source of information and service for the computer and network resources managed by DII. Help Desk services are available to all UT students. Questions about your UNIX account, ERA account setup and billing, desktop hardware and software, e-mail, Internet usage and Web page design, and dorm connectivity all can be handled by the Help Desk staff. Call 974-9900 for help. Send e-mail to helpdesk@utk.edu (UNIX, Internet, e-mail, or general) or era@utk.edu (connectivity problems or questions).

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 e-mail account, have their 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 (Aconda Court 104) devotes its time to solving problems and teaching. Assistance is given on Web page construction, the use of scanner hardware and software, and uploading files and scanned images to a Web page. Students can come to the consulting center to register for an e-mail account or to get assistance with password problems. Users are taught how to Telnet, how to download and use virus protection programs, how to use WebMail and Lotus Notes, how to surf the Internet on both Netscape and Microsoft Explorer, and how to access the campus computer system through a modem.

Enhanced Remote Access (ERA) and Support

DII supports approximately 6,000 users of ERA. Currently DII provides up to 128K ISDN connections and 56K analog connections. Any UT student, staff, or faculty member can obtain an ERA account that will give them access to the UT computer network, computer resources, and Internet access, all from home. 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 students 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 room is a 10Mbps dedicated Ethernet connection. Students living in the dorms with network capable computers will be connected free of charge. Students with computers that 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, Dreamweaver, JavaScript, 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. Please refer to <http://web.utk.edu/~training> for more information.

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.), 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 <http://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 assisted. 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 <http://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, faculty, and staff. This documentation includes *The Life Preserver*, a manual to help you get started using your UNIX account and sending/receiving e-mail, quick reference guides, and frequently-asked-questions (FAQ) Web pages.

Campus Phone and Cable TV

DII provides telephone services for students living on-campus in residence halls and off-campus in University resident apartments. DII also offers on-campus students full cable TV service at an affordable price. Cable TV service provides more than 30 channels, including ESPN, MTV, BET, History, VTV-33 Movies, showing new releases, movie classics, and much more. Please refer to <http://dii.utk.edu/students/telephone/> for more information.

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 upper-classmen, 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 its member institutions to help their 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, post-graduates, 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 mathematics. Appointments and program length range from one month to four years. Many of these programs are especially designed to increase the numbers of under-represented minority students pursuing degrees in science- and engineering-related disciplines. A comprehensive 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.

ORAU's office for 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 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. Anne Mayhew, ORAU Council member, at (865) 974-3265; or contact Ann H. Patton, ORAU Corporate Secretary, at (865) 576-3306.

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, streets, parking structures, or leased lots.

Staff and students with current UT parking permits may park in unreserved staff areas from 5 p.m. to 3 a.m. After this time, vehicles without permits for these areas may be towed.

Parking is not permitted in the Student Commuter Parking Areas nor in the Student Aquatic Center Parking Area between 3 a.m. and 6 a.m. except by special permit.

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 or 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 promoting 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. Psychologists and advanced doctoral students in psychology work with the student in a setting that allows confidential discussion of the student's concerns. In addition, various groups are available to meet the developmental needs of the students. These group settings provide the opportunity to share and learn from others and/or 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 come 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.- 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 Programs 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. Out-patient services 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 referral 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 1818 Andy Holt Avenue maintains scheduled daytime hours Monday through Friday. While urgent-care needs may be handled on a walk-in basis, appointments should be made in most instances. (Appointment line: 974-3648). 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.

This 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 in-patient 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 their 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 and clubs 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 concerns itself with general, personal, and scholastic difficulties of the student during their first year of enrollment at UT. The office is responsible for the summer 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 of interest to 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*, 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 life should be conducted in a context of mutual regard 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 an orderly and productive community. The student handbook, *Hilltopics*, is published and distributed annually and is also 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.

SUMMER SCHOOL SESSION

The summer school session offers current and visiting undergraduate and graduate students the opportunity to take a variety of courses offered by 11 colleges and schools. Information on summer courses and registration can be found at Circle Park on line www.cpo.utk.edu or the summer school web site www.outreach.utsk.edu/evening. For a Summer School timetable call 1-800-676-8657 or (865) 974-5361.

Summer catalogs with additional information are available after March 1 from the Summer Sessions Office located in 451 Communication Building.

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 current and a historical perspective. Information is available on a variety of topics ranging from racism, violence against women, cross-cultural studies, feminist theory, gay studies, local/statewide activism to poetry and health. The Women's Center is the location of the UTK's Women's Coordinating Council, as well as the Knoxville Chapter of the National Organization for Women. The Center is located in 301 University Center.

WRITING CENTER

The Writing Center offers free, one-to-one assistance to all writers on the UT campus. Students, faculty, and staff may drop by at any time to get feedback during every stage of the writing process. The up-to-date facility and trained tutors provide a supportive environment where writers can work and ask questions about their written texts. A variety of reference and writing instruction materials are available for use, as well as Macintosh and IBM-compatible computers for those who are working with the Writing Center tutors.

Students enrolled in English 101 or 102 may enroll in English 103 or 104, writing workshop courses that meet two hours per week in the Writing Center, for one hour of credit.

The Writing Center is located in Room 211 of the Humanities and Social Sciences Building.

UNIVERSITY FEES

University fees and other charges are determined by the Board of Trustees and are subject to change without notice. All student fees are due in advance.

All tuition, maintenance, and course related charges and refunds will be made to the nearest even dollar. All charges are subject to subsequent audit and verification. The University reserves the right to correct any error by appropriate additional charges or refunds.

All students must confirm their attendance by 1) making the minimum payment or 2) signing a Confirmation of Attendance form if no fees are due by the student. If the student does not owe fees due to a waiver (staff, GA, GTA, GRA, etc.), financial aid including scholarships, or fees are paid by another source, a signed Confirmation Form must be received by the Bursar's Office on or before the due date published in the Timetable of Classes each semester. The schedule will be canceled if one of the above is not accomplished each term on or before the published due date. This includes graduate assistants, teaching assistants, teaching associates, research assistants, staff and others whose fees may be billed, prepaid, or waived. Late registration fees are applicable to students who register during Final Registration.

The University is authorized by statute to withhold diplomas, grades, transcripts, and registration privileges from any student until all debts and obligations owed to the University are satisfied.

The general fees in effect at the time of publication are as follows:

APPLICATION FEE \$25

Each first-time undergraduate for admission must be accompanied by a non-refundable fee of \$25 before it will be processed. This fee is not required for transfers within the University system.

VOLXPRESS

VOLXpress, the University of Tennessee's centralized accounting system, allows students to pay all of their fees and charges with one check in the mail. Through VOLXpress, students are mailed statements to their billing address that include their class schedules, drop/add activity, current tuition and fees, fee waiver information, fines and past-due amounts, pending financial aid that can be credited toward their accounts, any excess funds from scholarships and/or loans, and choices about how to receive them.

VOLXpress is a convenient method for students to take care of business from home. Students who register and pay early will receive the greatest benefit if the payment deadlines are observed.

Each student must submit any change of address to the Enrollment Data Services Office to ensure timely receipt of a VOLXpress Statement. Each Timetable of Classes lists the dates of registration and when and if statements will be mailed.

MAINTENANCE FEES (IN-STATE FEES)

Undergraduate Students—
Full Time (12 hours or more)
Per Semester \$1,406

TUITION (OUT-OF-STATE FEES)

Undergraduate and Graduate—
Full Time Per Semester \$3,277
Graduate Students—
Full Time Per Semester \$4,667

Part-time students pay fees computed by the semester hour credit (or audit) at the rates shown below, total charge not to exceed the regular maintenance fee for in-state students or the maintenance fee plus tuition for out-of-state students.

MAINTENANCE (IN-STATE FEES)

Undergraduate Students—
Part Time (11 hours or less)
Per Hour (credit or audit) \$118

TUITION (OUT-OF-STATE FEES)

Undergraduate Students—
Part Time (11 hours or less)
Per Hour (credit or audit) \$274

All students both in and out-of-state are required to pay the established maintenance fee. In addition, tuition is required of students who are classified as non-residents for fee assessment purposes.

UNIVERSITY PROGRAMS AND SERVICES FEE S

Fall and Spring Semester—
Full Time (9 hours or more) \$150
Part Time (8 hours or less)—
Per Credit (or Audit) Hour \$10
Summer Semester—
Full Time (9 hours or more) \$90
Part Time (8 hours or less)—
Per Credit (or Audit) Hour \$7

NOTE: The Program and Services Fee is Non-Refundable

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 UT students. The student health fee is included in the full 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 Programs 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.

TECHNOLOGY FEE

Full Time (9 hours or more) \$100
Part Time (8 hours or less)—
Per Credit (or Audit) Hour \$12

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.

FACILITIES FEE

The Facilities Fee is a mandatory fee assessed to all students enrolled in credit and audit courses. The fee will be used to provide students with upgraded classroom facilities, expand information technology into the classroom, and fund campus infrastructure improvements. These revenues will be targeted to assist in funding a backlog of campus and classroom projects that will enhance the University's facilities. The fee is \$25 per semester for full-time, in-state and \$150 per semester for full-time, out-of-state students. The fee will be pro-rated for part-time students.

MUSIC FEE

One half-hour lesson per week, per semester \$60
One hour lesson per week, per semester \$120

Payable by students receiving individual instruction in music. Refunds are determined by the Music Department.

SPECIAL COURSE FEES

Departments such as Art, Chemistry, Biology, Engineering, Bowling, and Golf (for example) charge fees per specific course sections. Refunds on these fees are determined by the department or on the same percentage as maintenance and tuition.

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	\$20
2nd week of classes	\$40
3rd week of classes	\$60
4th week of classes	\$80
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.

REINSTATEMENT FEE\$45

VolXpress accounts which have a balance mid-semester 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 redeposited. Cash or certified funds are required for payment of the returned check and service charges.

Any student who does not respond within two 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 VolXpress 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 VolXpress 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 of \$20 is assessed when any 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 on or before the due date. An additional \$45 reinstatement fee will be assessed if fees are not paid by mid-semester.

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 fee 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 an 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% 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	
Withdrew after three weeks into the semester	
Received Stafford loan of	\$1,697.50
(actual loan amount \$1,750.00)	
Lived in dorm housing	
Enrolled on food plan	
Total institutional costs were	\$1,680.00
Non-institutional costs (i.e., book/supplies, transportation, personal living expenses)	
totaled	\$4,697.00
Refund to Title IV program is	\$1,444.57

Independent with No Dependents

Withdraw after six weeks into the semester	
Received Stafford loan of	\$1,940.00
(actual loan amount \$2,000.00)	
Tuition charge	\$1,681.00
Art fee of	\$15.00
Institutional charge totaled	\$1,696.00
Non-institutional (i.e., room/board, book/supplies, transportation, personal living expenses) totaled	\$4,697.00
Refund to Title IV program is	\$1,293.98

Dependent Student

Withdraw after nine weeks into the semester	
Received Stafford loan of	\$1,697.50
(actual loan amount \$1,750.00)	
Lived in dorm housing	
Total institutional costs were	\$1,701.00
Non-institutional costs (i.e., board, book/supplies, transportation, personal living expenses) totaled	\$4,697.00
Refund to Title IV program is	\$833.47

Independent with Dependents

Withdraw after 12 weeks into semester	
Received Subsidized Stafford loan of	\$2,695.00
(actual loan amount \$2,750.00)	
Institutional charge totaled	\$1,651.00
Non-institutional costs (i.e., board, book/supplies, transportation, personal living expenses) totaled	\$4,697.00
Refund to Title IV program(s)	\$0.00
(No refund due)	

Graduate Student

Withdraw after nine weeks into the semester	
Received Stafford loan of	\$4,122.50
(actual loan amount \$4,250.00)	
Institutional charge totaled	\$2,002.00
Non-institutional (i.e., room/board, book/supplies, transportation, personal living expenses) totaled	\$5,758.00
Refund to Title IV program is	\$2,061.25

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 16 and 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 at 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 course(s) dropped. Percentages of refunds are based on the date of withdrawal/drop. See Timetable of classes for specific dates.

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 federal 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, 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. This 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 Office of Financial Aid and Scholarships.

PRIORITY DATE FOR APPLICATIONS

Priority in awarding financial aid will be reserved for processed application data received on/before the priority 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.

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 scholarship programs are coordinated by the Office of Financial Aid and Scholarships and are awarded based on demonstrated strong academic achievement and financial need. Some undergraduate scholarships for currently enrolled students are administered by individual colleges or departments may require a separate application.

Scholarship Application Dates. The Early Action Priority Filing Date of November 1 is intended for freshmen who desire early notification of their admissions and wish to be considered for UT's most competitive scholarships which include the Oldham Scholars, Whittle Scholars, Manning Scholars, Neyland Scholars, Bonham Scholars, Roddy Scholars, Holt Scholars, and McClanahan Scholars. Applicants who complete the admissions application process and submit the Entering Freshman Academic Scholarship Application, with all the supporting documentation, by November 1 will be considered for the competitive scholarships.

All October ACT/SAT scores received at UT by December 1 will be considered in the scholarship selection process.

The Regular Admissions Application Priority Filing Date of February 1 is intended for freshmen who desire to be considered for Guaranteed Scholarships (Bicentennial, African-American Achievers, Trustees, and Presidential), General University and Alumni Scholarships (except Holt Scholars), and College and Departmental Scholarships (except McClanahan Scholars).

Consideration for Guaranteed Scholarships will be automatically granted for all students who apply for admission and meet the criteria

for Guaranteed Scholarships. Submission of the Entering Freshman Academic Scholarship Application is not required. Students meeting the criteria for the Guaranteed Scholarships will be automatically awarded. Students may submit additional grades and ACT/SAT scores until August 1 to improve their academic standing for Guaranteed Scholarship consideration.

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 Grant. 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 assistance 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 or part-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 Bursar's 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 loans) is \$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 2001 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 2001 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 an unsubsidized 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 studies 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 provi-

sions of the Stafford Loan Program are correct as of March 2001 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 disbursed 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 2001 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 Federal Work Study. Career Services administers the Student Employment Service.

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.

Academic Policies and Regulations

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 cultures add richness and diversity to the total educational experience for all.

The curricula, supporting programs, and administrative structure at UT are designed to serve students bringing with them a variety of academic backgrounds and experience.

Honors courses and sections and special programs challenge a student who previously has demonstrated outstanding overall academic attainment or skills in a particular subject area. However, experience has shown that other students can 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 of study or have received a degree may desire to expand their knowledge or prepare for a different vocation and may re-enroll or transfer previous credits to UT. Previous indication of sound academic preparation is expected of any applicant.

REQUIREMENTS FOR UNDERGRADUATE ADMISSION

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 readmission 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

The University of Tennessee seeks to admit a freshman class that reflects its mission as the state's leading public teaching and research university; represents the diversity of the state of Tennessee; and incorporates enrollment guidelines established by the Board of Trustees.

Each fall, UT enrolls a freshman class of approximately 3,800. The Fall 2000 entering class had a middle 50th percentile of an ACT range of 21 to 26 and a high school GPA range of 3.0 to 3.7.

Freshman decisions are based on the following elements:

1. Completion of core academic subjects comprising the 14 units required or admission:

- 4 units of English;
- 2 units of algebra;
- 1 unit of geometry, trigonometry, advanced math, or calculus;
- 2 units natural science, including at least 1 unit of biology, chemistry, or physics;
- 1 unit of American History;
- 1 unit of European history, world history, or world geography;
- 2 units of a single foreign language; and
- 1 unit of visual or performing arts.

2. GPA in these core academic subjects, weighted by UT to reflect honors, Advanced Placement (AP), International Baccalaureate (IB), and college dual enrollment.

3. Standardized test score (SAT or ACT).

4. Other relevant factors, including a student statement, extracurricular or leadership activities, background, and rank in class.

Anyone interested in attending UT as a freshman student should contact the Undergraduate Admissions Office at (865) 974-2184 to receive an official application or go to the web, www.utk.edu, and click on admissions.

Items Necessary for an Admission Decision

1. Completed application;
2. High school transcript on file in the Undergraduate Admissions Office;
3. Official ACT or SAT score (UT's ACT code = 4026; UT's SAT code = 1843);
4. Payment of a \$25.00 nonrefundable application fee.

FRESHMAN APPLICATION PRIORITY FILING DATES

Completed application and necessary documents should be postmarked by the following dates:

FALL SEMESTER

Early Action Priority Filing Date is November 1, 2001. This date is intended for freshmen who desire early notification of their admissions; and wish to be considered for our most competitive scholarships which include

McClanahan Scholars, Oldham Scholars, Whittle Scholars, Manning Scholars, Bonham Scholars, Holt Scholars, Neyland Scholars, Roddy Scholars, and Tennessee Scholars. Students who apply by the Early Action priority filing date will be notified by mid-January of an admission decision. Students not offered admission in the Early Action pool will be automatically considered for admission in the February 1 applicant pool.

October ACT/SAT scores will be considered for admission and scholarships if received by December 1, 2002, provided an application and necessary documents postmarked by November 1 are on file. To ensure receipt, students should request at the time of testing that official scores be sent to the University of Tennessee. UT's ACT code number is 4026; UT's SAT code number is 1843.

Early Action does not require an early commitment from the applicant; however, competitive scholarship recipients must respond to offers of scholarships by April 1. An extension may be granted upon written request and such requests will not jeopardize a student's status for admission or financial aid.

Regular Admissions Application Priority Filing Date is February 1, 2002. Students who apply and submit all necessary items by this date will be notified of an admission decision no later than April 1.

All students who meet the February 1 admissions date will be considered for the following academic scholarships provided they also submit the Entering Freshman Academic Scholarship Application:

- Guaranteed Scholarships (Bicentennial, African-American Achievers, Trustees, Presidential). Students who meet the criteria for guaranteed scholarships do not need to submit the scholarship application. Students who meet the criteria will be automatically awarded the guaranteed scholarships. Students may submit additional grades, ACT and/or SAT scores until August 1 to improve their academic standing for guaranteed scholarship consideration.

- General and Alumni Scholarships except the Holt.

- College and Departmental Scholarships except McClanahan Scholars.

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

1. Submit an initial transcript of credits earned through the junior year. Transcripts carried or mailed by the student are acceptable only if contained in a sealed envelope with an official school signature. Unofficial transcripts may be used for admission evaluation purposes. Once accepted, a student must have an official final transcript with documentation of graduation mailed to the Office of Undergraduate Admissions.

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.

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; and submit items mentioned in points 2-4 above.

General Education Development (GED)

Students who have achieved a high school diploma through the General Education Development (GED) Test also must 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.

Advanced Placement Examinations

Freshmen admitted to UT may receive credit on the basis of performance on one or more of the Advanced Placement Examinations 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 which 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 sends scores and test books on request to the Director of Admissions at UT sometime in June or July. Each participating department decides 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 Architecture advisor to plan a program that will include early required courses. Specific requirements for admission and progression are listed under the School of Architecture.

TRANSFER ADMISSION REQUIREMENTS

Transfer students with fewer than 30 earned transferable college-level hours will be considered on the same basis as new freshman applicants. Transfer applicants who have completed all required high school units and 30 or more hours of earned transferable college-level work with a minimum 2.0 GPA, will be admitted.

Anyone interested in attending UT as a transfer student should contact the Office of Undergraduate Admissions to receive an official application or go the web, www.utk.edu, and click on admissions.

Items Necessary for an Admission Decision

1. Completed application;
2. An official transcript of all work from each college or university attended;
3. Official high school transcript or GED if applicable;
4. Official ACT or SAT score (required only for students with less than 30 hours of transferable work completed);

5. Payment of a \$25.00 nonrefundable application fee.

After review of the competed application, an admissions decision is made and the applicant notified by mail.

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 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 transfer grade point average may differ from averages calculated by other institutions. Following enrollment at the University, only grades earned in course work 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 (1) which courses from other institutions are equivalent to courses at UT, (2) which will transfer as general elective credit, and (3) which courses, if any, will not transfer. Upon admission, a student may be classified as a freshman, sophomore, junior, or senior, according to the number of hours approved for transfer credit.

The faculty, through the deans and directors of the colleges and schools at UT, has the responsibility for determining guidelines for which courses are accepted for transfer credit. Certain transferable courses are not equivalent to specific UT courses. These courses may be used to meet specific curriculum requirements only with approval of the UT college in which the student's program is located. Appeals concerning transfer of course credit, whether by institutions or individuals, should be addressed to the dean of the appropriate UT college.

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.

HIGH SCHOOL UNITS

Transfer students who graduated from high school prior to 1989 or with 60 or more semester hours of transferable credit are exempt from high school course unit requirements. Other transfer applicants with more than one deficiency (outside of Art unit) in high school course unit requirements are not typically admitted to the University. Transfer students with a deficiency who graduated from high school in 1989 or later and who have earned less than 60 semester hours are required to complete the high school unit requirements within the first 30 semester hours at 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 the courses required in a particular program and meets the grade point average requirements for that agreement. All other academic regulations of the degree-granting institutions must also be satisfied. Details on specific programs and requirements are available from the Office of Undergraduate Admissions at UT, or from the specified community college.

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.

To apply for admission as an undergraduate student, each international student is required to provide the following:

1. A completed application for undergraduate admission;
2. Authenticated copies of all academic records. These records should describe the 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 undergraduate program whose first language is not English—with the exception of some transfers from regionally accredited colleges or universities in the United States (see c below)—must present a “Test of English as a Foreign Language (TOEFL)” score of at least 193 (computer based) or 523 (paper based), earned within two years prior to application, before being admitted; final consideration cannot be granted until test results are received by the Director of Admissions from the TOEFL test agency.
 - b. The University of Tennessee English Placement Test must be taken prior to registration; this test will determine whether the student needs to take more English and, if so, at what level. The English Placement Test grants no credit. Students assigned to special English courses must enroll the first semester of attendance, stay continuously enrolled in the assigned courses until completion of all requirements, and should complete the requirements within the first year of continued enrollment at the University of Tennessee.
 - c. An undergraduate student whose first language is not English is exempted from taking the UT English Placement Test and from presenting a TOEFL score of 523 (or 193 on the computer-based TOEFL) provided that the student has satisfied all 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 may demonstrate English proficiency by submitting a 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).

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 or management services beyond those normally provided. Fees are \$250 per semester and \$100 per summer session.

VISITING STUDENT APPLICANTS

A college 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 desiring to transfer 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 an official letter of good standing sent directly to UT Admissions. Applications are subject to review and admission is not guaranteed.

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 (prerequisites) 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 prior completion of 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 audit courses without payment of fees if space is available in the individual class. Persons 65 years of age or older 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 apply to enroll and receive regular college credit from a Tennessee postsecondary institution if: (1) they receive the recommendation and approval of the high school principal and appropriate higher education institution personnel; (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.

Students are encouraged to submit standardized test scores (ACT or SAT). Applications are subject to review and admission is not guaranteed.

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 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 absent from a term other than the summer term, or who has been academically dismissed. A readmission applicant may be asked to appear before the Committee on Readmission. 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 unless they have obtained a degree from the University of Tennessee (main campus).

A student who has attended another college or university since attending UT must have an official transcript sent to the University.

Students dismissed when they last attended the University, left in Academic Review, and those who have registered at another institution of higher education since their last UT enrollment must apply well in advance, generally three to four months prior to the beginning of the term. Submitting an application for readmission does not guarantee admission.

Official transcripts of any transfer work attempted after a student's enrollment at UT must be submitted before a decision on readmission can be made. For specific deadline dates, students should consult the Office of Admissions, 320 Student Services Building.

To register for courses in any other branch, center, or division of the University controlled by the Knoxville campus, a student must meet the readmission regulations that govern courses for credit at the Knoxville campus. However, students may register for correspondence courses (with prior permission of their college dean) without being readmitted.

FEE CLASSIFICATION FOR THE PURPOSE OF PAYING UNIVERSITY FEES AND FOR ADMISSION PURPOSES

Students are classified as in-state or out-of-state for the purpose of paying University fees. The classification is determined by the information recorded on the application for admission and may be reviewed as the result of submission of a subsequent fee classification questionnaire. Notice of classification is sent back shortly after the student applies to the University. The determination is made on the basis of the *regulations* established by the Board of Trustees, with the intent that all public institutions of higher education in Tennessee apply uniform classification rules. Basically, these *regulations* state that (1) students receiving parental support are classified according to parental domicile, and (2) an emancipated student independent of parents may establish in-state classification by producing clear and convincing evidence of Tennessee domicile with proof that the move to Tennessee was not primarily for obtaining educational opportunities for themselves, dependents, or spouse. Forms and copies of the *regulations* for undergraduates may be obtained from the Residency Clerk, 320 Student Services Building. Additional appeals may be directed to the Coordinator of Residency Classification, Room 320 Student Services Building.

Scholarship recipients and children of alumni are treated as in-state residents for the purpose of applying admissions criteria. However, such students will be required to pay out-of-state fees and tuition unless they can meet the in-state residency requirements stated above.

An out-of-state student completing one of the University's pre-professional programs (law, health services, veterinary medicine, etc.), does not gain preferential priority in seeking admission to a professional program that is otherwise restricted primarily to Tennessee residents.

REGULATIONS FOR CLASSIFYING STUDENTS IN-STATE AND OUT-OF-STATE FOR THE PURPOSES OF PAYING COLLEGE OR UNIVERSITY FEES AND TUITION AND FOR ADMISSIONS PURPOSES

Authority: Public Acts of Tennessee, 1839-1840, chapter 98, Section 5 and Public Acts of Tennessee, 1807, chapter 64. **Administrative History:** Original rule filed November 23, 1976; effective December 23, 1976. Repeal and new rule filed May 27, 1986; effective August 12, 1986; effective February 28, 1996.

Paragraph 1. INTENT.

It is the intent that the public institutions of higher education in the State of Tennessee shall apply uniform rules, as described in these regulations and not otherwise, in determining whether students shall be classified "in-state" or "out-of-state" for fees and tuition purposes and for admission purposes.

Paragraph 2. DEFINITIONS. WHEREVER USED IN THESE REGULATIONS.

1. "Public higher education institution" shall mean a university or community college supported by appropriations made by the Legislature of this State.

2. "Residence" shall mean continuous physical presence and maintenance of a dwelling place within this State, provided that absence from the State for short periods of time shall not affect the establishment of a residence.

3. "Domicile" shall mean a person's true, fixed, and permanent home and place of habitation; it is the place where he intends to remain, and to which he or she expects to return when he or she leaves without intending to establish a new domicile elsewhere.

4. "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 unemancipated person, then "parent" shall mean such guardian or legal custodian; provided, that there are not circumstances 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 institution or institutions of this State as a full-time student, as such term is defined by the governing body of said public higher educational institution or institutions, for a normal academic year or years or the appropriate portion or portions thereof since the beginning of the period for which continuous enrollment is claimed. Such person need not enroll in summer sessions or other such intersessions beyond the normal academic year in order that his or her enrollment be deemed "continuous." Enrollment shall be deemed continuous notwithstanding lapses in enrollment occasioned solely by the scheduling of the commencement and/or termination of the academic years, or appropriate portion thereof, of the public higher educational institutions in which such person enrolls.

Paragraph 3. RULES FOR DETERMINATION OF STATUS.

1. Every person having his or her domicile in this State shall be classified "in-state" for fee and tuition purposes and for admission purposes.

2. Every person not having his or her domicile in this State shall be classified "out-of-state" for said purposes.

3. The domicile of an unemancipated person is that of his or her parent. Unemancipated students of divorced parents shall be classified "in-state" when one parent, regardless of custodial status, is domiciled in Tennessee.

Paragraph 4. OUT-OF-STATE STUDENTS WHO ARE NOT REQUIRED TO PAY OUT-OF-STATE TUITION.

1. An unemancipated, currently enrolled student shall be reclassified out-of-state should his or her parent, having theretofore been domiciled in the State, remove from the State. However, such student shall not be required to pay out-of-state tuition nor be treated as an out-of-state student for admission purposes so long as his or her enrollment at a public higher educational institution or institutions shall be continuous.

2. An unemancipated person whose parent is not domiciled in this State but is a member of the armed forces and stationed in this State or at Fort Campbell pursuant to military orders shall be classified out-of-state, but shall not be required to pay out-of-state tuition. Such a person, while in continuous attendance toward the degree for which he or she is currently enrolled, shall not be required to pay out-of-state tuition if his or her parent thereafter is transferred on military orders.

3. A person whose domicile is in a county or another state lying immediately adjacent to Montgomery County, or whose place of residence is within thirty (30) miles of Austin Peay State University, shall be classified out-of-state but shall not be required to pay out-of-state tuition at Austin Peay State University. Provided, however, that there be no teacher college or normal school within the non-resident's own state, of equal distance to said non-resident's bona fide place of residence.

4. Part-time students who are not domiciled in the State but who are employed full-time in the State, or who are stationed at Fort Campbell pursuant to military orders, shall be classified out-of-state but shall not be required to pay out-of-state tuition. This shall apply to part-time students who are employed in the State by more than one employer, resulting in the equivalent of full-time employment.

5. Military personnel and their spouses stationed in the State of Tennessee who would be classified out-of-state in accordance with other provisions of these regulations will be classified out-of-state but shall not be required to pay out-of-state tuition.

6. A person who is domiciled in the Kentucky counties of Fulton, Hickman, or Graves shall be classified out-of-state and shall not be required to pay out-of-state tuition at the University of Tennessee at Martin if qualified for admission. This exemption is on condition that Murray State University in Murray, Kentucky, continue to admit Tennessee residents from selected Tennessee counties to enroll at that institution without payment of out-of-state tuition.

7. Any dependent child not domiciled in Tennessee but who qualifies and is selected to receive a scholarship under the Dependent Children Scholarship Act (T.C.A. 49-4-704) because his or her parent is a law enforcement officer, fireman, or emergency medical service technician who was killed or totally and permanently disabled while performing duties within the scope of employment, shall be classified out-of-state but shall not be required to pay out-of-state tuition.

8. The spouse of a student classified as "in-state" shall also be classified "in-state."

9. Students not domiciled in Tennessee but

who are selected to participate in specified institutional undergraduate Honors Programs shall be classified out-of-state but shall not be required to pay out-of-state tuition.

10. A person whose domicile is in Mississippi County, Arkansas, or either Dunlin County or Pemiscot County, Missouri, and who is admitted to Dyersburg State Community College, shall be classified out-of-state but shall not be required to pay out-of-state tuition.

11. A person who is not domiciled in Tennessee, but has a bona fide place of residence in a county which is adjacent to the Tennessee state line and which is also within a 30 mile radius (as determined by the THEC) of a city containing a two-year TBR institution and who is admitted to a two-year TBR institution, shall be classified out-of-state but shall not be required to pay out-of-state tuition. (THEC may adjust the number of the non-residents admitted pursuant to this section every three (3) years.) (See T.C.A. 49-8-102).

Paragraph 5. PRESUMPTION.

Unless the contrary appears from clear and convincing evidence, it shall be presumed that an emancipated person does not acquire domicile in this State while enrolled as a full-time student at any public or private higher educational institution in the State, as such status is defined by such institution.

Paragraph 6. EVIDENCE TO BE CONSIDERED FOR ESTABLISHMENT OF DOMICILE.

If a person asserts that he or she has established domicile in this State, he or she has the burden of proving that he or she has done so. Such a person is entitled to provide to the public higher educational institution by which he seeks to be classified or reclassified in-state, any and all evidence which he or she believes will sustain his or her burden of proof. Said institution will consider any and all evidence provided to it concerning such claim of domicile but will not treat any particular type or item of such evidence as conclusive evidence that domicile has or has not been established.

Paragraph 7. APPEAL.

The classification officer of each public higher educational institution shall be responsible for initially classifying students "in-state" or "out-of-state." Appropriate procedures shall be established by each such institution by which a student may appeal his or her initial classification.

Paragraph 8. EFFECTIVE DATE FOR RECLASSIFICATION.

If a student classified out-of-state applies for in-state classification and is subsequently so classified his or her in-state classification shall be effective as of the date on which reclassification was sought. However, out-of-state tuition will be charged for any quarter or semester during which reclassification is sought and obtained unless application for reclassification is made to the classification officer on or before the last day of regular registration of that quarter or semester.

SPECIAL STATE AND FEDERAL LAWS FOR EDUCATIONAL PURPOSES

AMERICAN HISTORY

Effective July 1, 1978 and afterwards, all students receiving a bachelor's degree must have completed one unit of American history

on the high school level or six semester hours of collegiate American history in order to receive a bachelor's degree as required by the General Assembly of the State of Tennessee (Tennessee Code Annotated Section 49-3253).

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 provision of educational opportunities or employment opportunities and benefits.

UT does not discriminate on the basis of sex or handicap in the education programs and activities which it operates, pursuant to the requirements of Title IX of the Education Amendments of 1972, Pub. L. 92-318; and Section 504 of the Rehabilitation Act of 1973, Pub. L. 93-112; respectively. This policy extends to both employment and admission to the University.

Inquiries concerning Title IX and Section 504 should be directed to the Director of Affirmative Action, 405-D Andy Holt Tower, Knoxville, TN 37996-0144, 974-2498. Charges of violation of the above policy should also be directed to the Director of Affirmative Action.

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT

This act provides for confidentiality of student records; however, it also provides for basic identification of people at UT without the consent of the individual. Release of information to third parties includes directory information, such as contained in the campus telephone book and sports brochures. Such information includes name, address, telephone number, date and place of birth, classification, college, major, dates of attendance, degrees and awards, the most recent previous educational agency or institution attended, participation in school activities and sports, and weight and height (for special activities).

Public notice of the categories to be contained in a directory is given, and a period of one week is provided during which a student may request that such information not be released.

SOCIAL SECURITY NUMBER USE

The University of Tennessee requires assignment of an individual student number for internal identification of each student's record. The University began using the social security number as the student identification number prior to January 1, 1975; therefore, the federal law allows continued use of this number. However, if a student does not desire the social security number to be used, notification to the University must be made at the time of application for admission; a student identification number will be assigned instead. For prompt and accurate retrieval of records and for conducting business about their own records, students and alumni must give their student identification number. Student identification numbers, whether a social security number or an assigned number, are used administratively within the University only and are not given to third parties without expressed consent of the student concerned.

STATE BOARD OF EDUCATION

Effective November 1978, the Tennessee State Board of Education requires all students preparing for a teaching career in Tennessee to pass a standardized test of basic skills (Pre-Professional Skills Test) prior to admission to teacher education programs.

POLICY ON A DRUG-FREE CAMPUS AND WORKPLACE

In support of the Drug-Free Workplace Act of 1988 (Public Law 100-690) and the Drug-Free Schools and Communities Act of 1989, The University of Tennessee is notifying all students, faculty, and staff of the following University policy approved by the UT Board of Trustees on 21 June 1990.

It is the policy of The University of Tennessee to maintain a safe and healthful environment for its students and employees. Therefore, University policy prohibits the unlawful use, manufacture, possession, distribution, or dispensing of drugs ("controlled substances" as defined in the Controlled Substances Act, 21 U.S.C. 812) and alcohol on University property or during University activities.

Violation of this policy is grounds for disciplinary action—up to and including immediate discharge for an employee and permanent dismissal for a student. Federal and state laws provide additional penalties for such unlawful activities, including fines and imprisonment (21 U.S.C. 841 et seq.; T.C.A. 39-6-401 et. seq.) Local ordinances also provide various penalties for drug and alcohol-related offenses. The University is bound to take all appropriate actions against violators, which may include referral for legal prosecution or requiring the individual to participate satisfactorily in an approved drug use/alcohol abuse assistance or rehabilitation program.

Aside from any University policy considerations, the use of illicit drugs and/or the abuse of alcohol may be harmful to your health. Some of the health risks associated with such use/abuse are listed: **ALCOHOL ABUSE HEALTH RISKS:** liver damage—cirrhosis, alcoholic hepatitis; Heart disease—enlarged heart, congestive heart failure; Ulcers and gastritis; Malnutrition; Cancer—of the mouth, esophagus, stomach, liver; Brain damage—memory loss, hallucinations, psychosis; Damage to fetus if pregnant mother drinks; Death—50% of fatal auto accidents involve alcohol; 31% of suicides are alcoholics. **DRUG USE HEALTH RISKS:** overdosing—psychosis, convulsions, coma, death; Long-term use—organ damage, mental illness, malnutrition, death; Casual use—heart attack, stroke, brain damage, death; Needles—infections, hepatitis, AIDS, death; If a pregnant mother uses drugs, her baby can be born addicted or dead.

Individuals who are paid by The University of Tennessee from federal grants or contracts must notify the University of any criminal drug statute conviction for a violation occurring in the workplace within five days after such conviction. The University is, in turn, required to inform the granting or contracting agency of such violation within ten days of the University's receipt of notification.

Employees and their families needing treatment information should call their local Personnel Office, Employee Assistance Program, or the State of Tennessee Employee Assistance Program (800-468-8369). Students needing treatment information should contact their campus Student Affairs Office, student health center, or counseling center.

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. Passing grades normally carry with them a certain number of quality points per credit hour in the course. A student's grade point average is obtained by dividing the number of quality points the student has accumulated at UT by the number of hours the student has attempted at UT, not including hours for which grades of I, N, NC, P, S, W, and WP have been received.

UNDERGRADUATE GRADES

Grade	Performance Level	Quality Points Per Semester Hour of Credit
A	Superior	4
B+	Very Good	3.5
B	Good	3
C+	Fair	2.5
C	Satisfactory	2
D	Unsatisfactory	1
F	Failure	0
WF	Withdrawn Failing	0

GRADES OF INCOMPLETE

Under extraordinary circumstances and at the discretion of the instructor, the grade of "I" (Incomplete) may be awarded to students who cannot complete the course for reasons beyond their control. In addition, a grade of "IW" 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 "IW" grade.) The "I" grade is awarded only when there is reasonable expectation that upon completion of the course work, a grade of "D" or better would be earned. The "I" grade is not issued in lieu of the grade "F" or "FX." The terms for the removal of the "I," including the time limit for removal of the "I," is decided by the instructor. It is the responsibility of the student receiving an "I" to arrange with the instructor whatever action is needed to remove the grade at the earliest possible date, and in any event, within one year of the assignment of Incomplete. Students may not remove an "I" grade by re-enrolling in the course. The "I" grade does not carry quality points 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 changed to an "F" and count as a failure in the computation of the grade point average. A student need not be enrolled at the University to remove a grade of incomplete.

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. 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 (withdrawn passing) is assigned 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 SI, which will not be computed in the average. A student is permitted to change the system of grading in a course through 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.

All entering freshman, except international students, must enroll in English 101, 102 or 118.

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.

Unless it is otherwise specified in the course description, no course may be repeated more than twice and no course may be repeated in which a grade of C or better has already been earned. A grade of WP counts as one of two times a course may be repeated. Exceptions to the number of times a course

may be repeated will be allowed only with prior written permission of the student's college dean. Each course is counted only once in determining credit hours presented for graduation.

GENERAL 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 sophomore 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 and 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, department heads, 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 Freshman 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

YEAR	Architecture	All Other Undergraduate Programs
First	0-31.9	0-29.9
Second	32-63.9	30-59.9
Third	64-95.9	60-89.9
Fourth	96-127.9	90-up
Fifth	128 - up	—

CLEP CREDIT

When approved by a given department, nationally recognized examinations, such as the examinations of the College Level Examinations Program (CLEP) of the College Entrance Examination Board, may be used as proficiency examinations in one or more courses offered by that department. The final decisions, as to specific courses for which such examinations are to be taken as evidence of acceptable proficiency, and as to the minimum score required for credit to be given, rest with the department.

The CLEP examinations may be taken at the State Testing and Evaluation Center. The Center supplies information on test dates and procedures and current departmental policies concerning the acceptance of CLEP credit.

CORRESPONDENCE WORK

A student may offer by correspondence as much as one-fourth of the total hours required for the degree sought and have this work count toward the degree. Credit for undergraduate courses in correspondence in the major subjects shall be limited to one-fourth of the total credit hours required. Correspondence credits are not accepted for students enrolled in the College of Law or, except by prior permission, for students in the Center for Health Sciences.

All courses taken by correspondence for which degree credit is given must meet degree program requirements of the Knoxville campus. In addition, all currently enrolled UT students who intend to take correspondence courses must have the approval of the dean of the college or school in which they are enrolled prior to registering for any college-credit correspondence course. Degree credit will not be granted for correspondence courses taken at an institution other than the University of Tennessee by a UT student if an equivalent correspondence course is available from the University of Tennessee Department of Independent Study (DIS).

Correspondence courses are open to students who have been dropped from the University for academic reasons only with the prior permission of the dean of the college or school in which they were enrolled.

A senior may take only six hours of the last year's work (the last 30 semester hours) by correspondence, and this must be taken with the University of Tennessee. If the student is a senior transfer, no work may be taken by correspondence.

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.

COURSE NUMBERS AND LEVELS

Each course offered by the University is identified by the name of the department offering the course and a three-digit course number. These numbers indicate course level, as follows:

Course Numbers	Level
000-099	Non-credit; preparatory
100-299	Lower division—primarily for freshmen and sophomores
300-499	Upper division—primarily for juniors and seniors; when taken for graduate credit, the letter "G" will precede the course credit hours on the grade report
500-599G	Graduate; sometimes available for undergraduate credit; when taken for undergraduate credit, the letter "U" will precede the course credit hours on the grade report
600-699	Advanced graduate; open to graduate students only
800-899	Law; occasionally open to other
900-999	qualified students. Veterinary medicine

Following certain course descriptions in this catalog are the designations: F, Sp, Su, A-O, A-E, E. These indicate the semesters Fall, Spring, Summer, Alternate Odd Academic Years, Alternate Even Academic Years, or Every Semester in which a course is normally offered and are intended as an aide to students planning their programs of study.

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. It is the direct responsibility of the student who seeks to deviate from the rules to complete the petitioning process. In cases where this might 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 EXAMS

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.

Students are not required to take more than two written exams on any day. The instructor(s) of the last non-departmental exam(s) on that day must reschedule the student's exam during the exam period. It is the obligation of students with such conflicts to make appropriate arrangements with the instructor at least two weeks prior to the end of classes.

No in-class, written quizzes or tests counting more than 10% of the semester grade may be given the last five calendar days prior to the study period. Courses that are exempt from this policy are so indicated in the catalog course description.

GRADE APPEAL PROCEDURE

APPEALS TO THE UNDERGRADUATE COUNCIL

The Undergraduate Council hears appeals concerning grades only after grievances have been duly processed, without resolution, through appropriate procedures at the department and college levels. The Council does not review grievances concerning allegations of misconduct or academic dishonesty. Procedures for consideration of such matters are published in *Hilltopics* under "Student Rights and Responsibilities."

In the appeals process, the Undergraduate Council has authority to deny the appeal, grant the appeal and request the instructor change the grade, or assign a grade of "pass" for the course.

Students should begin the appeal process as soon as possible. No appeal may be filed later than 90 days after the final grade has been issued.

COMPOSITION OF THE APPEALS COMMITTEE

Members of the Appeals Committee are appointed by the chairperson of the Undergraduate Council. The committee consists of at least five members, one of whom is named chairperson.

GROUNDINGS FOR APPEAL

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, incompletes, 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, then 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 should encourage the student to accept the assigned grade. If the department head has reason to believe that any of the four conditions do apply, then instructor should be encouraged by the department head to reconsider the grade. If the instructor elects not to change the grade, then the department head will appoint a committee of at least three faculty members to review the matter. Such committee will be charged with making a timely recommendation to the department head concerning the student's grade. The student must submit a written appeal for the committee's consideration or for any appeal made beyond the departmental level. When the departmental committee procedure is used, if the committee's recommendation is that the student's grade should be higher than the one assigned and the instructor still elects not to assign the recommended higher grade, the department head will assign the grade of "pass," or, at the student's option, he/she may accept the existing grade. In such a case, all other restrictions to use of the grade to satisfy graduation requirements are waived.

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 Provost 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 of appeal through the Provost or Vice President to the President of the University.

An appeal to the Provost must be filed within 60 days of the Undergraduate Council decision.

GRADUATING SENIOR PRIVILEGES

A senior who fails one subject during the semester of intended graduation may, with approval, take an examination or other appropriate form of evaluation. The senior must receive the approval of the instructor and appropriate collegiate personnel which may include the department head and/or dean. The evaluation may take place at the beginning of or during the next semester and, if successful, the senior will receive the degree at the next commencement.

HONOR STATEMENT

All facets of the University community have responsibilities associated with the Honor Statement. These responsibilities are unique to each sector of the University community.

Each student is responsible for his/her own personal integrity in academic life. While there is no affirmative duty to report the academic dishonesty of another, each student, given the

dictates of his/her own conscience, may choose to act on any violation of the Honor Statement. Each student is responsible for knowing the terms and conditions of the Honor Statement and may acknowledge his/her adherence to the Honor Statement by writing "Pledged" and signing each graded class assignment and examination.

Students are also responsible for any acts of plagiarism. Plagiarism is using the intellectual property of someone else without giving proper credit. The undocumented use of someone else's words or ideas in any medium of communication (unless such information is recognized as common knowledge) is a serious offense, subject to disciplinary action that may include failure in a course and/or dismissal from the University.

Specific examples of plagiarism are:

- copying without proper documentation (quotation marks and a citation) written or spoken words, phrases, or sentences from any source;
- summarizing without proper documentation (usually a citation) ideas from another source (unless such information is recognized as common knowledge);
- borrowing facts, statistics, graphs, pictorial representations, or phrases without acknowledging the source (unless such information is recognized as common knowledge);
- collaborating on a graded assignment without instructor's approval;
- submitting work, either in whole or part, created by a professional service and used without attribution (e.g., paper, speech, bibliography, or photograph).

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 give nor 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 Provost may officially close or suspend selected activities of the University because of extreme weather conditions. When a decision to close is reached, 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 for 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, but are advised 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 charging 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 Provost. 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 Bursar.

Subject to the grading policy of the college in which the student is enrolled, and except for courses which are graded only 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 the use of proficiency examinations to remove failing grades (also the grade of I) 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 in 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 may lengthen their academic programs and should consult closely with advisers 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 9 hours of graduate credit can be obtained in this status. Some departments do not permit seniors to register for 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 Arts and Sciences Advising Services. While it is proper to explore alternative choices, students should also pursue a course of study that culminates in graduation. For this reason, there is a limit to the length of time students may remain as University Students. At the completion of 45 hours, University Students who have entered UT as freshmen must associate with a college or officially declare a major prior to the end of the next term of enrollment. Students who transfer from another college or university may enroll as University students. However, transfer students may remain as University Students no longer than through the completion of 15 semester hours if the total number of hours transferred is 30 or more. 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 an inability to communicate in writing, the instructor will give the student an "IW" to designate "incomplete due to writing." Student work requiring revision shall 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 to make up the deficiency before the grade automatically changes to reflect failure for the course.

REGISTRATION

The Student Orientation Department send admitted freshmen and transfer students information about orientation and registration and the dates. Graduate students are instructed when to register upon receipt of their Admission 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.

REQUIREMENTS FOR REGISTRATION OF ADMITTED STUDENTS

Medical History. Though a physical examination is not required, a Medical History Questionnaire is sent to all admitted students and must be completed by the student, parent, or other responsible party who is familiar with the student's medical history. Such information will facilitate University physicians in providing continuing health care. This form must be returned to the Student Health Service before enrollment.

Participation in Orientation. Beginning freshmen and transfer students are required to attend an orientation session prior to their first registration at the University. Schedules for these programs are mailed to admitted students by the Director of Student Orientation. Orientation programs are designed to help new students become acquainted with opportunities and services at the University and to provide information needed for registration. Students who wish to attend the Evening School should contact the University Evening School for information about registration and orientation.

FIRST CLASS MEETING

Students who do not attend the first class meeting may be dropped from the course unless they have made prior arrangements with the department. It is the responsibility of students to take whatever steps necessary to see if they have been officially dropped from a course.

MAXIMUM HOURS PER TERM

Undergraduate students may enroll for a maximum of 19 credit hours each semester. Enrollment in more than 19 hours must be approved by the dean of the student's college or school. Graduate students may enroll for a maximum number of 15 credit hours each semester. Enrollment in more than 15 hours must be approved by the Dean of the Graduate School. Law and Veterinary Medicine students may enroll for the maximum number of credit hours each semester as specified by the respective college.

MAXIMUM HOURS PER TERM FOR SUMMER

Undergraduate students may enroll for a maximum of 6 credit hours for each of the first and second sessions. Students may enroll for a maximum of 12 credit hours for those courses that extend through the entire session. Students may enroll for a maximum of 12 credit hours in any combination of summer session courses. Enrollment that exceeds the maximum must be approved by the dean of the student's college or school.

AUDITING COURSES

Students may enter classes as auditors with the consent of the instructor. The instructor will determine the appropriate requirements or restrictions. Auditors receive no credit and the audited course will not be recorded on the transcript. The student's name will appear on the class roll to inform the instructor that the student is properly enrolled as auditor.

Auditors are required to register and pay fees. Prior to the add deadline, a change from credit to audit or from audit to credit may be made by completing the change of credit portion of the Undergraduate Change of Registration Form and having it processed. (See Timetable of Classes for appropriate location.) Between the add deadline and the drop deadline, the signature of the Special Services Officer or College Adjunct member (see Timetable of Classes) is needed in order to change credit. Once the drop deadline is passed, a change will not be allowed.

PREREQUISITE AND COREQUISITE 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 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 10th 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 the University Registrar 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 Office of the University Registrar, 209 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 upon a student's withdrawal 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 committee. 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 at least 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.

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/~registra>) or contact their college for deadlines for specific terms. To initiate the petitioning process, students should meet with a designated advisor in their colleges.

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 released 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 semesters (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 University Registrar.

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 Office of the University Registrar.

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 UT 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 satisfactorily 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 University Registrar, Room 209 Student Services Building. 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.

DEAN'S LIST

A public announcement is made of students passing a semester's work Summa cum laude (3.80 through 4.00), Magna cum laude (3.65 through 3.79), and Cum laude (3.50 through 3.64). To be eligible, students must complete at least 12 hours, not counting work taken on a satisfactory/no credit basis.

The honors and awards available to students at UT are listed with donors below; the right not to award any of the honors or awards listed herein is reserved to the University of Tennessee.

HONORS CATEGORIES FOR GRADUATION

Honors are conferred upon graduating students who have displayed a high level of achievement during their university career. Recipients of honors receive their degrees with:

Cum laude	3.50 through 3.64
Magna cum laude	3.65 through 3.79
Summa cum laude	3.80 through 4.00

These honors categories are based on a student's cumulative average at the end of the semester preceding the graduation semester. For all students entering Fall, 1985, and thereafter, honors categories are based only on the average earned at the University of Tennessee. Students must have earned at least 60 hours at UT in order to qualify for honors categories. For those students who entered prior to Fall, 1985, the honors category is based on the average earned at UT and the transfer work brought in prior to that date, or the average earned at UT, with the lower of the two averages determining the honors category. Work transferred after Fall, 1985 is not used in computation of the GPA.

If, at graduation, a student's grade point average would allow a higher honors category than that determined at the end of the semester preceding the graduation semester, the

student may, upon written request, receive a substitute diploma indicating the higher category. Courses may not be repeated for the purpose of raising an honors category.

In addition, University Honors are conferred upon graduating students who have completed the University Honors Program.

SECOND BACHELOR'S DEGREE

A student who holds a bachelor's degree may receive a second bachelor's degree from the University of Tennessee by satisfying the following:

1. Meet all requirements of both degrees.
2. Complete at least 30 semester hours beyond the total hours required for the first bachelor's degree.
3. Attend the University for at least two semesters beyond the minimum time required for the first bachelor's degree.
4. Declare the intention to work for a second bachelor's degree with the Office of the University Registrar.

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

DEPARTMENT (UNIT)	MAJOR	CONCENTRATION WITHIN THE MAJOR	DEGREE
College of Agricultural Sciences and Natural Resources			
Agriculture (Interdepartmental Unit)			
Agricultural Biology			
Agricultural Economics and Rural Sociology	Agricultural Economics and Business ¹	Agricultural Equipment Systems Management	Bachelor of Science in Agriculture
Agricultural and Extension Education	Agricultural Education		Bachelor of Science in Agriculture
Animal Science	Animal Science ¹	Production/Management Science/Technology	Bachelor of Science in Agriculture
		Animal Science Curriculum with Pre-Veterinary (3-1)	Bachelor of Science in Agriculture
Agricultural and Biosystems Engineering	Biosystems Engineering	Agricultural Engineering Biological Engineering Food Engineering	Bachelor of Science in Biosystems Engineering
Biosystems Engineering Technology (Minor Only)			
Entomology and Plant Pathology			
Food Science and Technology	Food Science and Technology ¹	Science Business/Technology Pre-Professional	Bachelor of Science in Agriculture
Forestry, Wildlife, and Fisheries	Forestry ¹	Forest Resources Management Wildland Recreation	Bachelor of Science in Forestry
	Wildlife and Fisheries Science ¹		Bachelor of Science in Wildlife and Fisheries Science
Ornamental Horticulture and Landscape Design	Ornamental Horticulture and Landscape Design ¹	Business Horticulture Science and Management Public Horticulture Landscape Design	Bachelor of Science in Ornamental Horticulture and Landscape Design
Plant and Soil Sciences	Plant and Soil Sciences ¹	Science/Technology Management/Consulting Environmental Science and Natural Resources	Bachelor of Science in Plant and Soil Sciences
College of Architecture and Design			
School of Architecture	Architecture		Bachelor of Architecture
Interior Design	Interior Design		Bachelor Science in Interior Design
College of Arts and Sciences			
Anthropology	Anthropology ¹	Honors	Bachelor of Arts
Art	Art History ¹		Bachelor of Arts
	Graphic Design		Bachelor of Fine Arts
	Studio Art	Art Education Ceramics Drawing Inter-Area Painting Media Arts Printmaking Sculpture Watercolor	Bachelor of Fine Arts
	Studio Art ¹		Bachelor of Arts
Audiology and Speech Pathology	Audiology		Bachelor of Arts
	Speech Pathology		Bachelor of Arts
Division of Biology	Biological Sciences ¹	Biochemistry and Cellular and Molecular Biology Honors Biochemistry and Cellular and Molecular Biology Ecology and Evolutionary Biology Honors Ecology and Evolutionary Biology Microbiology	Bachelor of Science

¹ Minor available.² Minor available for students in other colleges.³ Minor available in Adolescent Health.⁴ Minor available in Engineering Communication and Performance.⁵ Minor available in Elementary Teaching and Secondary Teaching.⁶ Minor available in Applied Music or Music History and Literature.⁷ Minor available in Chinese, Japanese, and Portuguese.⁸ Minor available in Dance.⁹ Interdisciplinary Studies minor available in Gerontology.

DEPARTMENT (UNIT)	MAJOR	CONCENTRATION WITHIN THE MAJOR	DEGREE
		Honors Microbiology Plant Biology Honors Plant Biology	
Chemistry	Chemistry ¹	Honors	Bachelor of Science
	Chemistry		Bachelor of Science in Chemistry
Classics	Classics	Classical Civilization Greek ¹ Latin ¹	Bachelor of Arts
Computer Science	Computer Science ¹		Bachelor of Science
Economics	Economics ¹	Honors	Bachelor of Arts
English	English ¹	Creative Writing Literature Rhetoric and Writing Technical Communication ¹ Honors	Bachelor of Arts
Geography	Geography ¹	Honors	Bachelor of Arts
Geological Sciences	Geology ¹	Engineering Geology	Bachelor of Science
		Honors	
History	History ¹	Honors	Bachelor of Arts
Interdisciplinary Programs	Interdisciplinary Programs	African and African-American Studies ¹ American Studies ¹ Asian Studies ¹ Minor available in Cinema Studies Comparative Literature ¹ Environmental Studies Judaic Studies ¹ Latin American Studies ¹ Language and World Business—Chinese Language and World Business—Japanese Language and World Business—Portuguese Legal Studies Linguistics ¹ Medieval Studies ¹ Urban Studies ¹ Women's Studies ¹	Bachelor of Arts
Mathematics	Mathematics ¹	Honors	Bachelor of Science
Modern Foreign Languages ⁷ and Literatures	French ¹	Literature Language Language and World Business Honors	Bachelor of Arts
	German ¹	Language and World Business Language and World Business	
	Italian ¹	Language and World Business	
	Russian ¹	Language and World Business	
	Spanish ¹	Language and World Business	
Music	Music ⁶		Bachelor of Arts
	Music	Music Education—Wind/Percussion Emphasis (5-Year Option) Music Education—Wind/Percussion Emphasis (4-Year Alternative) Music Education—String Emphasis (5-Year Option) Music Education—String Emphasis (4-Year Alternative) Music Education—Vocal/General Concentration/Keyboard Emphasis (5-Year Option) Music Education—Vocal/General Concentration/Keyboard Emphasis (4-Year Alternative) Music Education—Vocal/General Concentration/Vocal Emphasis (5-Year Option) Music Education—Vocal/General Concentration/Vocal Emphasis (4-Year Alternative) Organ Piano Piano Pedagogy and Literature Sacred Music Strings	Bachelor of Music

¹ Minor available.² Minor available for students in other colleges.³ Minor available in Adolescent Health.⁴ Minor available in Engineering Communication and Performance.⁵ Minor available in Elementary Teaching and Secondary Teaching.⁶ Minor available in Applied Music or Music History and Literature.⁷ Minor available in Chinese, Japanese, and Portuguese.⁸ Minor available in Dance.⁹ Interdisciplinary Studies minor available in Gerontology.

DEPARTMENT (UNIT)	MAJOR	CONCENTRATION WITHIN THE MAJOR	DEGREE
		Studio Music and Jazz Theory Composition Voice Woodwind, Brass, and Percussion Instruments	
Philosophy	Philosophy ¹		Bachelor of Arts
Physics and Astronomy	Physics ¹	Honors	Bachelor of Science
Political Science	Political Science ¹	Honors in Political Science Public Administration	Bachelor of Arts
Pre-Professional Programs	Pre-Professional Programs	Pre-M.B.A.	Bachelor of Arts
	Pre-Professional Programs	Pre-Dental Pre-Medicine Pre-Nuclear Medicine Technology Pre-Pharmacy Pre-Veterinary	Bachelor of Science
	Pre-Teaching	Environmental Science Mathematics Mathematics and Science Science	Bachelor of Science
	ScienceMedical Technology		Bachelor of Science
Psychology	Psychology ¹	Honors	Bachelor of Arts
Religious Studies	Religious Studies ¹	Student Initiated	Bachelor of Arts
Sociology	Sociology ¹	Criminal Justice Environment and Society ¹	Bachelor of Arts
Theatre	Theatre ¹		Bachelor of Arts
Individualized Program	Individualized		Bachelor of Arts
College Scholars Program	College Scholars		Bachelor of Arts
Arts and Sciences (Intercollegiate with the College of Business Administration)	Statistics ¹		Bachelor of Science
College of Business Administration²			
Accounting and Business Law	Accounting		Bachelor of Science in Business Administration
Business Administration (Interdepartmental Unit)	General Business		Bachelor of Science in Business Administration
	Public Administration		Bachelor of Science in Business Administration
Economics	Economics		Bachelor of Science in Business Administration
Finance	Finance		Bachelor of Science in Business Administration
Management	Management	General Management Human Resources Management International Management Operations Management	Bachelor of Science in Business Administration
Marketing and Transportation	Logistics and Transportation		Bachelor of Science in Business Administration
	Marketing		Bachelor of Science in Business Administration
Statistics	Statistics		Bachelor of Science in Business Administration
College of Communications			
Advertising	Advertising		Bachelor of Science in Communications
Broadcasting	Broadcasting ¹		Bachelor of Science in Communications
School of Journalism	Journalism ¹	Journalism Public Relations	Bachelor of Science in Communications
Speech Communication	Speech Communication ¹	Honors	Bachelor of Arts in Communications
College of Education			
Counseling, Deafness, and Human Services ⁴	Special Education	Education of the Deaf and Hard of Hearing	Bachelor of Science in Education
	Human Services	Human Services	Bachelor of Science in Education
		Educational Interpreting	Bachelor of Science in Education
		Modified and Comprehensive	Bachelor of Science in Education

¹ Minor available.² Minor available for students in other colleges.³ Minor available in Adolescent Health.⁴ Minor available in Engineering Communication and Performance.⁵ Minor available in Elementary Teaching and Secondary Teaching.⁶ Minor available in Applied Music or Music History and Literature.⁷ Minor available in Chinese, Japanese, and Portuguese.⁸ Minor available in Dance.⁹ Interdisciplinary Studies minor available in Gerontology.

DEPARTMENT (UNIT)	MAJOR	CONCENTRATION WITHIN THE MAJOR	DEGREE
Educational Administration and Cultural Studies			
Educational Psychology			
Exercise Science and Sport Management ⁸	Exercise Science		Bachelor of Science in Education
	Sport Management		Bachelor of Science in Education
Instructional Technology, Curriculum, and Evaluation			
Theory and Practice in Teacher Education ⁵	Art Education (Intercollegiate)		Bachelor of Science in Education
College of Engineering			
Engineering Fundamentals			
Chemical Engineering	Chemical Engineering	Honors	Bachelor of Science in Chemical Engineering
Civil and Environmental Engineering ¹	Civil Engineering		Bachelor of Science in Civil Engineering
Electrical and Computer Engineering	Electrical Engineering		Bachelor of Science in Electrical Engineering
	Computer Engineering		Bachelor of Science in Computer Engineering
Engineering Physics	Engineering Physics		Bachelor of Science in Engineering Physics
Industrial Engineering	Industrial Engineering		Bachelor of Science in Industrial Engineering
Materials Science and Engineering	Materials Science and Engineering ¹		Bachelor of Science in Materials Science and Engineering
Mechanical and Aerospace Engineering and Engineering Science	Aerospace Engineering ¹		Bachelor of Science in Aerospace Engineering
	Mechanical Engineering		Bachelor of Science in Mechanical Engineering
	Biomedical Engineering		Bachelor of Science in Biomedical Engineering
Nuclear Engineering	Nuclear Engineering	Radiological Engineering	Bachelor of Science in Nuclear Engineering
College of Human Ecology⁹			
Child and Family Studies	Child Development ¹	Early Childhood Administration Early Childhood Development Early Childhood Education/Early Childhood Special Education Early Childhood Education Teacher Licensure Program (Pre-K—Grade 4)	Bachelor of Science in Human Ecology
	Family Studies ¹		Bachelor of Science in Human Ecology
Consumer and Industry Services Management	Hotel and Restaurant Administration	Hotel and Tourism Management Restaurant and Foodservice Management	Bachelor of Science in Service Management
	Recreation and Tourism Management	Commercial Recreation and Tourism Management Therapeutic Recreation	Bachelor of Science in Human Ecology
	Retail and Consumer Sciences ¹		Bachelor of Science in Service Management
Health and Safety Sciences ³	Community Health Education ¹		Bachelor of Science in Human Ecology
Human Resource Development	Human Resource Development	Teacher Education Training and Development	Bachelor of Science in Human Ecology
Nutrition	Nutrition ¹		Bachelor of Science in Human Ecology
College of Nursing	Nursing		Bachelor of Science in Nursing
College of Social Work	Social Work		Bachelor of Science in Social Work
School of Information Sciences			
University Honors			
University Studies			

¹ Minor available.² Minor available for students in other colleges.³ Minor available in Adolescent Health.⁴ Minor available in Engineering Communication and Performance.⁵ Minor available in Elementary Teaching and Secondary Teaching.⁶ Minor available in Applied Music or Music History and Literature.⁷ Minor available in Chinese, Japanese, and Portuguese.⁸ Minor available in Dance.⁹ Interdisciplinary Studies minor available in Gerontology.

College Agricultural Sciences and Natural Resources

Dr. C.A. Speer, Dean and Director, College and Agricultural Experiment Station
Dr. Mary Lewnes Albrecht, Associate Dean for Academic Programs
Dr. Thomas H. Klindt, Associate Dean, Tennessee Agricultural Experiment Station
Dr. C. Roland Mote, Assistant Dean, Tennessee Agricultural Experiment Station

<http://web.utk.edu/~casnr/>

The College of Agricultural Sciences and Natural Resources (CASNR) 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 the people of Tennessee. Over time the College expanded its curricula from traditional agriculture to include natural resources and agribusiness.

The Agricultural Experiment Station and the Agricultural Extension Service were organized and assigned responsibility for research and extension functions, respectively. In 1975, the College of Veterinary Medicine was established. These three units and the College now constitute the University of Tennessee Institute of Agriculture. Thus, the College of Agricultural Sciences and Natural Resources is an academic unit of The University of Tennessee, and an important part of the Institute of Agriculture (<http://www.agriculture.utk.edu/>).

Most of the CASNR faculty hold joint appointments in the Agricultural Experiment Station and are actively involved in significant basic and applied research in agriculture and the associated natural resources. On-campus and field research laboratories are used in the instructional programs of the College, while extension and research activities provide many students excellent opportunities for individualized study with faculty mentors, as well as part-time job opportunities.

CURRICULA IN AGRICULTURE AND NATURAL RESOURCES

The College offers a broad range of curricula leading to the degrees of:

Bachelor of Science in Agriculture (with majors in agricultural economics and business, agricultural education, animal science, and food science and technology),

Bachelor of Science in Biosystems Engineering (with concentrations in agricultural engineering, biological engineering and food engineering),

Bachelor of Science in Forestry (with concentrations in forest resources management and wildland recreation),

Bachelor of Science in Ornamental Horticulture and Landscape Design (with concentrations in horticulture science and management, business, landscape design, and public horticulture),

Bachelor of Science in Plant and Soil Sciences (with concentrations in science/technology, management/consulting, and environmental sciences and natural resources) and

Bachelor of Science in Wildlife 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 wildland recreation concentrations are fully accredited by the Society of American Foresters. The Food Science and Technology and the Plant and Soil Sciences programs maintain the standards as established by their professional societies. Agricultural education meets state of Tennessee teacher education standards.

A pre-veterinary medicine curriculum 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. The preprofessional program in Food Science and Technology allows students to be awarded a B.S. degree in agriculture with a major in Food Science after three years and the successful completion of the first

year at UT-Memphis dental, medical or pharmacy programs, or at the UT College of Veterinary Medicine.

Specific courses required for each baccalaureate degree program 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 and natural resources instruction; other courses are included to provide a university liberal education. In all curricula, there is the opportunity to select elective courses appropriate to the educational objectives of the individual students. The choice of electives in each curriculum should be made with the guidance of the faculty advisor.

All academic and general requirements of the University as stated in the front section of this catalog must be met by students enrolled in CASNR programs, 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 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, following university guidelines. 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 agriculture and natural resources coursework 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 AND NATURAL RESOURCES

MASTER OF SCIENCE PROGRAMS

Programs of graduate study leading to the Master of Science degree are offered in all departments in the College of Agricultural Sciences and Natural Resources.

DOCTORAL PROGRAMS

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

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

Students who have decided upon their area of study may choose the curriculum most adaptable to their needs when they register as freshmen. An advisor from the department will be assigned for their counseling. It is not necessary, however, that freshman students select their curriculum until the end of the first year. Undecided students will be assigned a special advisor to assist them in exploring CASNR programs 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 the appropriate department.

A foundation for advanced study beyond the baccalaureate degree may be established in any curriculum if appropriate electives are included. 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. Contact the Office of the Dean, Agricultural Extension Service, for recommended coursework.

A very careful choice of electives enables a student with an excellent 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. It is the student's responsibility to keep advisors informed about each major and/or minor they are pursuing.

OPTIONAL MINORS

Students may have a single or multiple minors in any of the UT colleges recorded on their transcripts without regard to course overlap among majors and minors. A minor in a department of the CASNR requires a minimum of 16 credit hours in courses numbered 200 and above with the majority of credit hours at the 300 and 400 level. At least 9 of the credit hours required for the minor must be completed at the UT campus in Knoxville. Specific requirements are listed by each department offering a minor. Minors offered in the CASNR are open to any 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:

Perspectives in Agriculture and Associated Natural Resources (3) (counts towards the University's general education requirement for 6 hours of integrative studies)

Biological Sciences (College of Agricultural Sciences and Natural Resources courses included¹) (8)

Computer Science (3) (Or equivalent experience. See specific departmental requirements.)

English and Communications to include English Composition (6), Speech (3), and an additional communications elective (3) for a total of 12 (the communications elective may overlay to fulfill one course for the University's humanities electives)

Mathematics (6)

Physical Sciences (Chemistry, Physics, Geology) (8)

Social Sciences and Humanities to include Economics (4) and other electives (8) for a total of 12 (Economics (4) may overlay to fulfill one course for the University's social science electives)

² Directed Electives (6)

Major Courses (24)

³ 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.

¹ Bachelor of Science in Biosystems Engineering

² Must be courses in English and communications, biological sciences, physical sciences, or social sciences and humanities, historical studies, integrative studies or combinations of these subject matter areas in order for degree programs to meet the University's general education requirements.

³ Bachelor of Science in Biosystems Engineering and Bachelor of Science in Forestry program excepted.

INDEPENDENT STUDY

Independent study, 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 and natural resources. 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 natural resources in

the study of a common problem provides an exciting experience.

Students may also earn academic credit for faculty-guided international study. Students should consult with their faculty advisors.

CASNR HONORS RESEARCH AND CREATIVE ACHIEVEMENTS PROGRAM

The CASNR Honors Research and Creative Achievements Program is designed to allow students to expand and improve their critical thinking and analytical skills while pursuing the baccalaureate degree in the college. Students in this program will complete an honors project, related to research, teaching or extension, under the guidance of a faculty member, and report that work in both written and oral format in a one-hour course, ANR 498. The Program Objectives are:

To increase the scope of educational attainment by providing a program with greater breadth and depth,

To provide special recognition for outstanding scholastic achievement, and

To foster a sustained interest in advanced education, research and creative achievement.

To be eligible, a student must be a junior, senior or second semester junior transfer student with a minimum grade point average of 3.25. Additionally, once a student is admitted to the program, they must maintain a GPA of 3.25 or above. The eligible student will be invited by the College to participate in the program the first semester they are eligible, and once per academic year thereafter. The student must apply for the program, and be approved by a College Honors Committee. This application includes details of the proposed research, teaching or extension project. Upon admission, the student can enroll in ANR 497, Honors Project (repeatable for a maximum of 6 hours) or departmental independent study credit. The student would enroll during the semester(s) that he/she is actively working on the project. Some departments may elect to allow some or all of this credit to count toward graduation requirements. Upon completion of their work, the student must enroll in ANR 498, Honors Presentations (1). The student will prepare a written report and give an oral presentation to the Committee and whomever else is interested.

More detailed information is available from the CASNR Dean's office.

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 CASNR from another institution or from another college at UT should contact the specific department of the curriculum they wish to follow and for assignment to an appropriate advisor. If the student is unsure of the specific curriculum, he/she should contact the Dean's office. Requests for substitutions or special examinations should be submitted for consideration during the first semester of study in the selected curriculum.

AGRICULTURAL ECONOMICS

Professors:

D.L. McLemore (Head), Ph.D. Clemson; M.B. Badenhop (Emeritus), Ph.D. Purdue; J.R. Brooker, Ph.D. Florida; C.L. Cleland (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. Klindt (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 Tech; D.E. Ray, Ph.D. Iowa State; J.B. Riley, Ph.D. Oklahoma State University; R.K. Roberts, Ph.D. Iowa State; T.J. Whatley (Emeritus), Ph.D. Purdue; H. Williamson, Ph.D. Missouri.

Associate Professor:

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. Jaenieke, Ph.D. Maryland; K.H. Tiller, Ph.D. Tennessee.

AGRICULTURAL ECONOMICS AND BUSINESS CURRICULUM

Advisors:

Professors Brooker, McLemore, and Riley.

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 110	1	
Agriculture and Natural Resources 101	3	
¹ Biological Science Elective	8	
Mathematics 123, 125	6	
English 101, 102	6	
² Humanities Elective	3	
² History Electives	6	
Sophomore		
Agriculture and Natural Resources 290	3	
Economics 201	4	
³ Physical Science Electives	8	

Speech 210 or 240	3
Accounting 201, 202	6
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 320	3
² Nondepartmental Agricultural Electives	6
Agricultural Economics 320, 342, 350, 412	12
² Humanities Elective	3
English 295	3
Senior	
Agricultural Economics 410	1
Agricultural Economics or Rural Sociology Electives	12
² Business Electives	6
² Integrative Studies Elective	3
Electives	11

Total: 132 hours

¹Selected from Biology 101, 102, 130, 140.

²See advisor for list of acceptable courses.

³Selected from Chemistry 100-110 or 120-130, Geology 101-102 or 103, Physics 121-122.

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 dealership 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 manager as a mentor, spend two summer internships in a dealership, and will be considered for additional scholarship assistance.

	Hours	Credit
Freshman		
Agricultural Economics 110	1	
³ Agriculture 101	3	
Botany 110, 120	8	
Mathematics 123, 125	6	
English 101, 102	6	
¹ Humanities Elective	3	
¹ History Electives	6	
Sophomore		
² Economics 201	4	
Accounting 201, 202	6	
Statistics 201	3	
Biosystems Engineering Technology 202	3	
Agriculture and Natural Resources 290	3	
Plant and Soil Sciences 210	3	
Chemistry 120	4	

Physics 161	3
Speech 210 or 240	3
Junior	
Agricultural Economics 320, 342, 350, 412	12
² Rural Sociology 380	3
Economics 313	3
Statistics 320	3
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
¹ Business Elective	3
Biosystems Engineering Technology 432	3
Biosystems Engineering Technology 462	3
Biosystems Engineering Technology Electives	6
Animal Science 381, or Ornamental Horticulture and Landscape Design 340 or 370, or Plant and Soil Sciences 435	3
¹ Humanities Elective	3
Electives	3

Total: 132 hours

¹See advisor for list of acceptable courses.

²Meets Social Science requirements.

³Meets Integrative Studies requirement.

AGRICULTURAL AND EXTENSION EDUCATION

Professors:

R.R. Lessly (Head), Ed.D. Oklahoma State; J.D. Todd (Emeritus), Ed.D. Illinois; R.G. Waters, Ph.D. Penn State.

Assistant Professor:

J.A. 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 students to teach agricultural education or serve as an educator with the Agricultural Extension Service. Students may choose to concentrate either in the teacher education (certification) option or the professional services option.

The teacher education option is designed to prepare students to meet teacher certification requirements for agricultural education. Teacher Certification is given through the College of Education. Students must file for admission to Teacher Education in the College of Education. (See Admission to Teacher Education and Student Teaching section.)

Students who choose the professional services option may substitute additional technical agriculture and/or internship hours equivalent to the number of hours of student teaching required in the teacher education option. With advisor approval additional hours, required specifically for certification, may also be substituted with courses in the humanities, social sciences or technical agriculture areas. This option provides a broad-based curriculum designed for those students who wish to prepare for careers with the Agricultural Extension Service, agribusiness, government agencies, and farming and ranching. This option does not prepare a student to meet teacher certification requirements.

	Hours	Credit
Freshman		
Agriculture and Natural Resources 101	3	
Biology 101, 102	8	
English 101, 102	6	
Mathematics 119, 123	6	
Economics 201	4	
Animal Science 260 or 280	3	
Agriculture and Natural Resources 290	3	
Sophomore		
Chemistry 100, 110	8	
Speech 210	3	
^{1,2} Humanities Elective	3	
² Horticulture Elective	3	
Agricultural Economics 212	3	
Plant and Soil Sciences 210	3	
Plant and Soil Sciences 230	3	
Biosystems Engineering Technology 202	3	
Food Science and Technology 269	2	
Agricultural and Extension Education 211	3	
Agricultural and Extension Education 201	1	
Junior		
Entomology and Plant Pathology 321	3	
Animal Science 330	4	
² Humanities Elective	3	
Ornamental Horticulture and Landscape Design 430	3	
Agricultural and Extension Education 345, 346	6	
Agricultural Economics 342	3	
Educational Psychology 210	3	
³ Education 400	2	
³ Education 401	3	
² Health Elective	3	
² History Elective	3	
Senior		
³ Agricultural and Extension Education 435, 436	12	
³ Agricultural and Extension Education 420	2	
Biosystems Engineering Technology 452	3	
Animal Science 381	3	
² General Elective	3	
² Agricultural Electives	5	
Total:		132 hours

¹The course should contain a writing component.

²Lists of appropriate electives are available and should be selected in conference with academic advisor.

³Equivalent hours may be substituted for students not desiring teacher certification.

AGRICULTURAL AND BIOSYSTEMS ENGINEERING

<http://bioengr.ag.utk.edu>

Professors:

C.R. Mote (Assistant Dean, Tennessee Agricultural Experiment Station), Ph.D. Ohio State, P.E.; B.L. Bledsoe (Emeritus), Ph.D. Oklahoma State, P.E.; Z.A. Henry (Emeritus), Ph.D. North Carolina State, P.E.; D.H. Luttrell (Emeritus), Ph.D. Iowa State; J.J. McDow (Emeritus), Ph.D. Michigan State, P.E.; J.I. Sewell (Emeritus), Ph.D. North Carolina State, P.E.; C.H. Shelton (Emeritus), M.S. Virginia Polytechnic Institute; F.D. Tompkins (Associate Dean, College of Engineering), Ph.D. Tennessee, P.E.; L.R. Wilhelm, Ph.D. Tennessee, P.E.; R.E. Yoder, Ph.D. Colorado State, P.E.; R.E. Yoder (Head), Ph.D. Colorado State, P.E.

Associate Professors:

R.S. Freeland, Ph.D. Tennessee, P.E.; W.E. Hart, Ph.D. Purdue; L.D. Pordesimo, Ph.D. Pennsylvania State; D.R. Raman, Ph.D. Cornell, P.E.; J.B. Wilkerson, Ph.D. Purdue; A.R. Womac, Ph.D. Tennessee, P.E.; D.C. Yoder, Ph.D. Purdue.

Advisors:

Professors Freeland, Hart, Mote, Pordesimo, Raman, Wilhelm, Wilkerson, Womac, D. Yoder, and R. Yoder.

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.

VISION

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.

Our graduates have the skills needed by professional engineers. Our program strives to instill

- an understanding of the engineering profession;
- the thrill of rewarding engineering accomplishments;
- a knowledge of the responsibilities of a practicing engineer;
- an ability to work effectively in teams of diverse makeup;
- an understanding of the importance of ethical conduct in a professional practice;
- effective oral, written, and graphical communications skills;
- the importance of taking initiative on projects;
- confidence in technical capabilities;
- strong personal time management skills;
- strong project management skills.

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: management practices 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) 974-7266; e-mail: abed@utk.edu).

BIOSYSTEMS ENGINEERING: CONCENTRATION IN AGRICULTURAL ENGINEERING

	Hours	Credit
Freshman		
Engineering Fundamentals 101, 102	12	
Biosystems Engineering 103, 104	2	
Chemistry 120	4	
¹ English 101, 102	6	
^{1,2} Mathematics 141, 142	8	

Sophomore	
Biosystems Engineering 201	1
³ Bioscience Elective	4
Engineering Science 231, 321	6
⁷ General Education Elective (Contemporary Issues Cluster)	3
⁷ General Education Elective (Humanities or Arts Clusters)	3
⁷ General Education Elective (Engineering Practice in Global Societal Context Cluster)	3
Chemistry 130	4
Mathematics 200, 231, 241	8
Physics 231	3
Junior	
Biosystems Engineering 303, 451	7
⁴ Biosystems Engineering Core Electives	6
Electrical Engineering 301	3
⁶ Fluid Science Elective	4
⁷ General Education Elective (Humanities or Arts Clusters)	3
Industrial Engineering 405	3
⁸ Thermodynamics Elective	3
⁶ Technical Electives	6
Senior	
Biosystems Engineering 401, 402	9
Biosystems Engineering 403, or 423, or 430 or 433	3
³ Bioscience Elective	4
Speech 210 or 240	3
English 360	3
Economics 201	4
⁷ General Education Electives (Multicultural Studies Cluster)	3
⁶ Technical Elective	3
Total: 134 hours	

¹Or equivalent honors course.
²If Mathematics placement test score is unsatisfactory, take Mathematics 130 prior to 141 (See advisor for alternate course schedule). Mathematics 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 BsE 243 Material and Energy Flows in Biological Systems; BsE 311 Processing Food and Biological Materials; BsE 315 Soil And Water Conservation; and BsE 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.
⁷Select from the appropriate cluster in the College of Engineering listing of General Education Electives. In some instances a single course may meet requirements of more than one cluster. When this occurs, a course from another cluster may be used to meet the total hour requirement. These electives must be approved in advance by advisor to insure that they meet university and ABET criteria.
⁸Select ME 331 Thermodynamics or NE 203 Thermodynamics after consultation with your advisor.

BIOSYSTEMS ENGINEERING: CONCENTRATION IN BIOLOGICAL ENGINEERING

	Hours Credit
Freshman	
Engineering Fundamentals 101, 102	12
Biosystems Engineering 103, 104	2
Chemistry 120	4
¹ English 101, 102	6
^{1,2} Mathematics 141, 142	8
Sophomore	
Biosystems Engineering 201, 243	4
³ Basic Biology Electives I and II	8
⁷ General Education Elective (Contemporary Issues Cluster)	3
Engineering Science 231, 321	6
Chemistry 130	4

Mathematics 200, 231, 241	8
Physics 231	3
Junior	
Biosystems Engineering 303, 451	7
Electrical Engineering 301	3
⁶ Thermodynamics Elective	3
Chemistry 350	3
Economics 201	4
⁴ Fluid Science Elective	4
⁷ General Education Electives (Humanities or Arts Clusters)	6
Microbiology 210	3
Senior	
Biosystems Engineering 311, 401, 402, 433	15
⁵ Technical Elective	3
⁷ General Education Elective (Engineering Practice in Global Societal Context Cluster)	3
⁷ General Education Elective (Multicultural Studies Cluster)	3
Industrial Engineering 405	3
Speech 210 or 240	3
English 360	3
Total: 134 hours	

¹Or equivalent honors course.
²If Mathematics placement test score is unsatisfactory, take Mathematics 130 prior to 141 (See advisor for alternate course schedule). Mathematics 130 will count as additional hours toward graduation.
³Select from: Biology 130 and 140 (general biology sequence) or Botany 110 and 120 (general botany sequence).
⁴Select from CE 390 Hydraulics or ES 341 Fluid Mechanics.
⁵Typically upper division courses in engineering or related areas. May also include Physics 232. Must be approved in advance by advisor.
⁶Select ME 331 Thermodynamics, NE 203 Thermodynamics, or BioCh 471 Introduction to Physical Bio-chemistry after consultation with your advisor.
⁷Select from the appropriate cluster in the College of Engineering listing of General Education Electives. In some instances a single course may meet requirements of more than one cluster. When this occurs, a course from another cluster may be used to meet the total hour requirement. These electives must be approved in advance by advisor to insure that they meet university and ABET criteria.

BIOSYSTEMS ENGINEERING: CONCENTRATION IN FOOD ENGINEERING

	Hours Credit
Freshman	
Engineering Fundamentals 101, 102	12
Biosystems Engineering 103, 104	2
Chemistry 120	4
¹ English 101, 102	6
^{1,2} Mathematics 141, 142	8
Sophomore	
Biosystems Engineering 201, 243	4
Engineering Science 231, 321	6
³ General Education Elective (Contemporary Issues Cluster)	3
³ General Education Elective (Engineering Practice in Global Societal Contest Cluster)	3
Chemistry 130	4
Mathematics 200, 231, 241	8
Microbiology 210	3
Physics 231	3
Junior	
Biosystems Engineering 303, 451	7
Electrical Engineering 301	3
⁴ Fluid Science Elective	3
Food Science and Technology 310, 320, 329, 340	12
Economics 201	4
³ General Education Elective (Multicultural Studies Cluster)	3
⁵ Thermodynamics Elective	3

Senior	
Biosystems Engineering 311, 401, 402, 433	15
English 360	3
³ General Education Electives (Humanities or Arts Clusters)	6
Industrial Engineering 405	3
Speech 210 or 240	3
Food Science and Technology 495	3
Total: 134 hours	

¹Or equivalent honors course.
²If Mathematics or placement test score is unsatisfactory, take Mathematics 130 prior to 141 (See advisor for alternate course schedule). Mathematics 130 will count as additional hours toward graduation.
³Select from the appropriate cluster in the College of Engineering listing of General Education Electives. In some instances a single course may meet requirements of more than one cluster. When this occurs, a course from another cluster may be used to meet the total hour requirement. These electives must be approved in advance by advisor to insure that they meet university and ABET criteria.
⁴Select from CE 390 Hydraulics or ES 341 Fluid Mechanics.
⁵Select ME 331 Thermodynamics or NE 203 Thermodynamics after consultation with your advisor.

BIOSYSTEMS ENGINEERING TECHNOLOGY

Advisors:
 Professors Hart, Mote, Wilhelm, Wilkerson, Womac, D. Yoder, and R. Yoder.

No baccalaureate degree program is offered in biosystems engineering technology; however, seven undergraduate courses are offered to prepare students in other disciplines to apply elementary principles, techniques and systems of engineering to the broad industry of agriculture.

A Minor in Biosystems Engineering Technology requires a minimum of 18 semester hours as follows: Biosystems Engineering Technology 202, 212, 432, 442 and two of the three courses 422, 452, 462.

A program leading to the Master of Science degree with a major in biosystems engineering technology is available (see the *Graduate Catalog*). The graduate program is open to qualifying BS graduates from other disciplines who earned a minor in biosystems engineering technology or who completed courses equivalent to those required for the minor in biosystems engineering technology.

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; J.K. Bletner (Emeritus), Ph.D. Ohio State; C.C. Chamberlain (Emeritus), Ph.D. Iowa State; G.E. Conaster, M.S. Kentucky; B.H. Erickson (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. Graves, 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; F.B. Masincupp, Ph.D. Kansas State; J.B. McLaren (Emeritus), Ph.D. Auburn;

D.G. Meadows, Ph.D. Texas A&M; M.J. Montgomery, Ph.D. Wisconsin; J.B. Neel, Ph.D. Tennessee; J.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. Kattesh, Ph.D. Virginia Polytechnic Institute; A.F. Mathew, Ph.D. Purdue; F.n.Schrick, Ph.D. Clemson; M.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, Kattesh, 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 general or 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 communication, 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 Practices); 4 credits from 330 (Animal Nutrition, Feeds, and Ration Formulation); 3 credits from 381 (Animal Production Systems) or one of the 480 series plus 8 credits from the following list: 220, 320, 340, 380, no more than one of the 360 series, 420, 430, 440, the 480 series, and no more than 3 credits from 493.

ANIMAL SCIENCE: CONCENTRATION IN PRODUCTION/MANAGEMENT

	Hours Credit
Freshman	
Agriculture and Natural Resources 101	3
Biology 130-140 or 101-102	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
¹ Social Science Elective	3

Sophomore

Animal Science 220, 260	6
Plant and Soil Science 210, 211	4
Agriculture and Natural Resources 290	3
Speech 210 or 240	3
² Writing Elective	3
Economics 201	4
³ Humanities Elective	3
⁴ Business Elective	3
Non-Animal Science Agriculture Elective	3

Junior

⁵ Biological Science Restricted Elective	3
⁶ Historical Studies	6
Animal Science 320, 330, 340; one course from 361, 362, 363 or 364; 380	15
Non-Animal Science Agriculture Electives	6
Free Elective	3

Senior

Animal Science 430	2
Animal Science 495	1
Animal Science 481 or 482 or 483 or 484	3
Animal Science - one course from the three remaining above or one of 485, 489, 581	3
Free Electives	7-9
⁷ Production Agriculture Electives	9
⁴ Business Elective	6

Total: 132 hours

¹May be chosen from approved list of courses meeting University requirements as Social Sciences.

²May be chosen from approved list of courses meeting University requirements as Humanities and described as writing intensive.

³May be chosen from approved list of courses meeting University requirements as Humanities.

⁴May be chosen from approved list of courses meeting departmental requirements as business electives.

⁵May be chosen from approved list of courses meeting departmental requirements as biological science restricted electives.

⁶May be chosen from approved list of courses meeting University requirements as History.

⁷May be chosen from approved list of courses meeting departmental requirements as Production Agriculture.

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
¹ Social Science elective	3
Sophomore	
Animal Science 220, 260	6
Agriculture and Natural Resources 290	3
Speech 210 or 240	3
² Writing Elective	3
Economics 201	4
³ Physical Science and Math Restricted Elective	8
⁴ Biological Science Restricted Elective	3
Non-Animal Science Agriculture Elective	3
Junior	
⁴ Biological Science Restricted Electives	8
³ Physical Science and Mathematics Restricted Electives	6
⁶ History	6
Animal Science 320, 330, 340, 380	13
Senior	
⁶ Humanities Elective	3
⁴ 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

¹May be chosen from approved list of courses meeting University requirements as Social Sciences.

²May be chosen from approved list of courses meeting University requirements as Humanities and described as writing intensive.

³May be chosen from approved list of courses meeting departmental requirements as physical science and math restricted electives.

⁴May be chosen from approved list of courses meeting departmental requirements for biological science restricted electives.

⁵May be chosen from approved list of courses meeting departmental requirements as History.

⁶May be chosen from approved list of courses meeting University requirements as Humanities. Electives allow students to select an area for specialization. Those interested in production/management would select additional courses in agriculture; in business administration, economics, agricultural economics, finance, and accounting; in science/technology in chemistry, zoology, physics, and statistics, etc. Electives should be chosen with career objectives in mind and in consultation with the advisor. The animal science core courses are 220, 260, 320, 330, 340, and 380.

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 hours or Animal Science 340—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.
3. At least 12 hours of upper division (300 and 400 level courses) technical agriculture courses must be taken at UT.
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
 - b. Animal Science 101—1 hour
 - c. Agriculture and Natural Resources 101—3 hours
 - d. Animal Science 220—3 hours
 - e. Animal Science 260—3 hours
 - f. Animal Science 320—3 hours
 - g. Animal Science 330—4 hours
 - h. Animal Science 340—3 hours
 - i. Animal Science 380—3 hours
 - j. One course from Animal Science 481, 482, 483, 484, 485, 486, or 489—3 hours
 - k. Agriculture and Natural Resources 290—3 hours

- I. Economics 201—4 hours.
 m. Speech 210 or 240—3 hours
 n. Non-Animal Science Agriculture—3 hours

NOTE: Agriculture and Natural Resources 101, Economics 201 and Speech 210 or 240 will be accepted by the CVM as meeting requirements in the Humanities/Social Science category. The remainder must be a Social Science elective, a Humanities elective, and a Humanities elective described as writing intensive. Writing intensive History courses may also be used.

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 (s)he 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.

	Hours	Credit
Freshman		
Agriculture and Natural Resources 101	3	
Animal Science 101	1	
Biology 130-140	8	
English 101-102	6	
Math 123-125 or 1410142 or 151-152	6-8	
Chemistry 120-130	8	
Sophomore		
Animal Science	3	
Biology Elective	4	
Agriculture and Natural Resources 290	3	
Speech 210 or 240	3	
Chemistry 350, 360-369	8	
Physics 221-222	8	
Animal Science 260	3	
^{2,3} Humanities Elective	3	
Junior		
Biochemistry 410	4	
^{2,4} Writing elective	3	
² Economics 201	4	
Animal Science 320, 330, 340, 380	13	
One course from Animal Science 481, 482, 483, 484, 485, 489	3	
Non-Animal Science Agriculture	3	
^{1,2} Social Science Elective	3	
		Total: 100-102 hours

¹Chosen from approved list of courses meeting University requirements as Social Sciences.

²Will count toward the 18 credits required in the Humanities/Social Science for entrance into the CVM.

³Chosen from approved list of courses meeting University requirements as Humanities.

⁴Chosen from approved list of courses meeting University requirements as Humanities and described as writing intensive.

This curriculum meets the requirements for entrance to the CVM and 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.

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. Clemson; J.W. Hilty (Emeritus), Ph.D. Ohio State; P.L. Lambdin, Ph.D. VPI and SU; C.D. Pless, Ph.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. Ownley, Ph.D. North Carolina State;
 B.B. Reddick, Ph.D. Clemson.

Assistant Professor:

Roberto Pereira, Ph.D. Florida.

Advisors:

Gerhardt, Lambdin, and Pless.

No undergraduate curriculum exists in the Department of Entomology and Plant Pathology, but a program leading to the Master of Science degree with a major 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 and microorganisms, their ecology, population dynamics, potential damage to plants and their products, and various considerations in control alternatives.

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. Melton, 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. Hulbert, Ph.D. Illinois; R.L. van Laack, Ph.D. Utrecht; J. Weiss, Ph.D. Massachusetts.

Advisors:

Collins, Draughon, Golden, Loveday, Melton, 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 special 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

Hours Credit

Freshman

English 101-102	6
Math 125 and 130 or 123 and 125	6-8
¹ Biological Science	4
Food Science and Technology 140	3
Chemistry 120-130	8
Agriculture and Natural Resources 101	3
Elective	3

Sophomore

Chemistry 350, 360-369	8
Physics 101 or 221	3-4
Microbiology 210	3
Food Science and Technology 340	3
Agriculture and Natural Resources 290	3
Nutrition 100 or 300	3
^{2,6} Social Science Elective	3
^{3,6} Ethics Elective	3
^{4,6} Humanities Elective	3

Junior

Food Science and Technology 410	4
Food Science and Technology 420-429	5
BCMB 310 or 410	4
Economics 201	4
^{5,6} History Electives	6
⁷ Food Science and Technology Elective	3
Speech 210, 220 or 240	3
Plant and Soil Science 471 or Statistics 2013	3

Senior

Food Science and Technology 401	2
Food Science and Technology 430	3
Food Science and Technology 495	3
⁷ Food Science and Technology Elective	9
Nutrition 420	4
Biosystems Engineering Technology 422	3
Electives	8-11

Total: 132 hours

¹May be chosen from Biology 101, 130 or Botany 110.

²May be chosen from approved list of courses meeting University requirements as Social Sciences.

³May be chosen from Philosophy 110, 240, 342, 344, 345, 346 or Business Law 301.

⁴May be chosen from approved list of courses meeting University requirements as Humanities.

⁵May be chosen from approved list of courses meeting University requirements as History.

⁶One of these electives (3 hours) must be described as writing intensive.

⁷May be chosen from approved list of courses meeting Departmental requirements for FST elective.

FOOD SCIENCE AND TECHNOLOGY: CONCENTRATION IN BUSINESS TECHNOLOGY

	Hours	Credit
Freshman		
English 101-102	6	
Math 119 or 123 or 130 and 125	6	
¹ Biological Sciences	4	
Food Science and Technology 140	3	
Chemistry 100	4	
Agriculture and Natural Resources 101	3	
^{2,7} Social Science Elective	3	
^{3,7} Humanities Elective	3	
Sophomore		
Chemistry 110	4	
Microbiology 210	3	
Food Science and Technology 340	3	
Food Science and Technology 240	2	
Agriculture and Natural Resources 290	3	
Nutrition 100 or Animal Science 330	3	
Statistics 201	3	
^{4,7} Ethics Elective	3	
⁵ Directed Technology/Business Electives	6	
Economics 201	4	
Junior		
Food Science and Technology 410	4	
Food Science and Technology 420-429	5	
⁶ Directed Technology/Business Electives	6	
^{6,7} History Electives	6	
Food Science and Technology 452, 460, 470 and/or 480	3	
Speech 210, 220 or 240	3	
Statistics 365	3	
Electives	3	
Senior		
Food Science and Technology 401	2	
Food Science and Technology 430	3	
Food Science and Technology 452, 460, 470 and/or 480	6	
Food Science and Technology 490	3	
Food Science and Technology 495	3	
⁵ Directed Technology/Business Electives	7	
Electives	9	
Total: 132 hours		

¹May be chosen from Biology 101, 130 or Botany 110.

²May be chosen from approved list of courses meeting University requirements as Social Sciences.

³May be chosen from approved list of courses meeting University requirements as Humanities.

⁴May be chosen from Philosophy 110, 240, 342, 344, 345, 346 or Business Law 301.

⁵May be chosen from courses to meet Agricultural Business or Business minor; or Accounting, Agricultural Economics, Agricultural and Extension Education, Animal Science, Biology, Biosystems Engineering Technology, Chemistry, Computer Science, Finance, Marketing, Management, Microbiology, Nutrition, Plant and Soil Sciences, or non-required Food Science and Technology courses (max 3 hrs 442 and max 3 hrs of 493).

⁶May be chosen from approved list of courses meeting University requirements as History.

⁷One of these electives (3 hrs) must be described as writing intensive.

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 dental, medical 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 31 of the student's first year in professional school (s)he should contact the Dept 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 baccalaureate degree before admission. Therefore students are encouraged to plan to complete all requirements for B.S. degree before enrolling in either of these colleges. A B.S. degree can be obtained before enrolling in the Doctor of Pharmacy (Pharm.D.) 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.

	Hours	Credit
Freshman		
English 101-102	6	
Math 130 or 123 and 125; or Math 141-142	6-8	
Biology 130-140	8	
Food Science and Technology 140	3	
Chemistry 120-130	8	
Agriculture and Natural Resources 101	3	
Sophomore		
Chemistry 350, 360-369	8	
Physics 221	4	
¹ Physics 222 or	4	
¹ Food Science and Technology Elective	3	
Microbiology 210	3	
Food Science and Technology 340	3	
Agriculture and Natural Resources 290	3	
Nutrition 100 or 300	3	
^{2,7,9} Social Science Elective	3	
^{3,7} Ethics Elective	3	
Junior		
Food Science and Technology 410	4	
Food Science and Technology 420-429	5	
⁴ BCMB 230, 310 or 410	4-5	
^{5,7,9} Humanities Elective or	3	
⁸ Biology 240	4	
⁹ Speech 210 or 240	3	
Economics 201	4	
^{6,7} History Electives	6	
Plant and Soil Science 471 or Statistics 201	3	
Total: 100-103 hours		

Senior year in professional school or 4th year of Food Science and Technology curriculum to receive B.S. degree after 132 hours.

¹Physics 222 required for Pre-Med, Pre-Pharmacy and Pre-Vet. FST elective required for Pre-Dental.

²May be chosen from approved list of courses meeting University requirements as Social Sciences. (Psychology 110 is suggested for Pre-Pharmacy)

³May be chosen from Philosophy 110, 240, 342, 344, 345, 346 or Business Law 301.

⁴BCMB 230 required for Pre-Dental, BCMB 310 required for Pre-Pharmacy, BCMB 410 required for Pre-Med and Pre-Vet.

⁵May be chosen from approved list of courses meeting University requirements as Humanities.

⁶May be chosen from approved list of courses meeting University requirements as History.

⁷One of these electives (3 ours) must be described as writing intensive.

⁸Biology 240 required for Pre-Vet.

⁹Speech 210 or 240 will be accepted by the CVM as meeting requirements in Humanities/Social Science category.

FORESTRY, WILDLIFE AND FISHERIES

Professors:

G.M. Hopper (Head), Ph.D. Va Tech; J.W. Barrett (Emeritus), Ph.D. Syracuse; E.R. Buckner (Emeritus), Ph.D. North Carolina State; H.A. Core (Emeritus), Ph.D. Syracuse; B.L. Dearden, Ph.D. Colorado State; R.W. Dimmick (Emeritus), Ph.D. Wyoming; D.M. Ostermeier, Ph.D. Syracuse; M.R. Pelton, Ph.D. Georgia; S.E. Schlarbaum, Ph.D. Colorado State; G. Schneider (Emeritus), Ph.D. Michigan State; C.A. Speer (Dean), Ph.D. Utah State; R.J. Strange, Ph.D. Oregon State; E. Thor (Emeritus), Ph.D. North Carolina State; J.L. Wilson, Ph.D. Tennessee; P.M. Winistorfer, Ph.D. Iowa State.

Associate Professors:

D.A. Buehler, Ph.D. Va Tech; J.D. Clark, Ph.D. Arkansas; W.W. Clatterback, Ph.D. Mississippi State; J.M. Fly, Ph.D. Michigan; R.L. Hay, Ph.D. Duke; D.G. Hodges, Ph.D. Mississippi State.

Assistant Professor:

B.H. Bond, Ph.D. Va Tech; D.S. Buckley, Ph.D. Michigan Tech; C.A. Harper, Ph.D. Clemson; S.A. Knowe, Georgia; L.I. Muller, Georgia; T.M. Young, M.S. Tennessee.

Forestry Advisors:

Buckley, Fly, Hay, Hodges, Knowe, Ostermeier, and Schlarbaum.

Wildlife and Fisheries Advisors:

Buehler, King, Minser, Muller, Strange, and Wilson.

The mission of the Department of Forestry, Wildlife and Fisheries is to advance the management, utilization, and appreciation of natural resources in Tennessee, the region, and beyond through programs in teaching, research, and extension.

The department offers two majors. The major in forestry leads to the degree Bachelor of Science in Forestry and the major in wildlife and fisheries science leads to the degree Bachelor of Science in Wildlife and Fisheries Science. The forestry major has two concentrations: Forest Resources Management Concentration and Wildland Recreation Concentration.

ENROLLMENT MANAGEMENT PLAN

All majors in the Department of Forestry, Wildlife and Fisheries must submit an application for progression with relevant career goals, names of three references, work experience (both volunteer and paid positions) related to natural resources, and service and professional activities, and a transcript, before registering for Junior classes.

To be considered for progression into the upper division of the program, applicants must have submitted all required documents (application form, resume, and transcript) by a December deadline late in the Fall Semester.

Those students who have met all preliminary requirements for progression, including having relevant career goals and letters of reference for progression, will be ranked based on the combined score of their cumulative grade point average (GPA) and GPA in core courses. The combined score will be 50% cumulative GPA (minimum 2.2) and 50%

cumulative GPA (minimum 2.2) in core courses. Applicants with the highest scores will be accepted into the programs. The number of applicants accepted into each program will be set based on resources available. Applicants will be notified of their acceptance by the start of registration for Spring Semester.

Applicants who are not accepted into the program and who believe that extenuating circumstances prevented their acceptance into the program may appeal the decision to a faculty committee (i.e., S.A.C.). A written statement in which the case is made for acceptance is required for all applicants. It would have to be submitted within one week of the rejection notice.

Appellants receiving a positive response from the appeals committee will be accepted into programs on a provisional basis through the first semester of their Junior year. The progress of provisional students will be reviewed at the end of the Fall Semester; at that time they will either be fully admitted or released from the program.

CORE COURSES

Forestry Majors: two courses in English composition (English 101 and 102 or equivalent); college algebra and calculus (Math 119 and 125 or equivalent); general chemistry (Chemistry 100 or equivalent); two courses in general botany (Botany 110 and 120 or equivalent); general economics (Economics 201 or equivalent); public speaking (Speech 210 or 240 or equivalent); and statistics (Statistics 201 or equivalent); soils science (PSS 210 or equivalent); Introduction to microcomputers (Ag 290 or equivalent); general ecology (Biology 230 or equivalent).

Wildlife and Fisheries Science Majors: two courses in English composition (English 101 and 102 or equivalent); college algebra and calculus (Math 119 and 125 or equivalent); two courses in chemistry (Chemistry 120 and 130 or equivalent); two courses in general biology (Biology 130 and 140 or equivalent); general economics (Economics 201 or equivalent); public speaking (Speech 210 or 240 or equivalent); and statistics (Statistics 201 or equivalent); soils science (PSS 210 or equivalent); Introduction to microcomputers (Ag 290 or equivalent); general ecology (Biology 230 or equivalent).

Students must have completed all but three core courses by the end of the semester in which they apply for acceptance into upper division courses. They must complete all core courses before entering upper division courses. They will also need the prerequisites to the individual upper division courses.

FORESTRY

The profession of forestry is the science, the art, and the practice of managing and using for human benefit the natural resources which occur on and in association with forest lands. Benefits are derived from the multiple resources of the forest: wood, water, wildlife, recreation, forage, and environmental amenities. Foresters are managers of these resources. Thus, our principal instructional objective is to provide the broad education needed to deal effectively with the complex of forest resources.

A **Minor in Forestry** consists of 16 credit hours as follows: FWF 211 or FWF 250, FWF 311 and 10 hours from FWF 100, 312, 313, 412 and 416 and Forestry designated courses. Prerequisites will not be waived.

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 wildland 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 Cherokee National Forest provide additional land and facilities available to the teaching program. Contained within these areas is a wide variety of tree species and forest types ranging from elements of the boreal forest to southern pines and hardwoods.

Lumber, pulp and paper, and other wood-using industries cooperate in conducting tours and demonstrating industrial processes.

	Hours Credit
Freshman	
English 101, 102	6
Mathematics 119, 125	6
Botany 110, 120	8
Forestry, Wildlife and Fisheries 100, 211	4
Forestry 100	3
¹ Social Sciences Elective	3
² Electives	3-4
Sophomore	
Economics 201	4
Statistics 201	3
Agriculture and Natural Resources 290	3
Forestry, Wildlife and Fisheries 311	3
Forestry 315	3
Speech 210 or 240	3
Chemistry 100	4
Plant and Soil Sciences 210	3
English 295	3
² Electives	3-4
Junior	
Forestry, Wildlife and Fisheries 312, 313, 317	8
Forestry 305, 306, 314, 321, 322, 323, 324, 326, 329, 330	24
¹ Humanities Elective	3
² Electives	4
Senior	
Forestry, Wildlife and Fisheries 410, 412, 416	9
Forestry 331, 332, 420, 422	8
³ Ethics Elective	3
¹ History Elective	3
¹ Communications Elective	3
² Electives	4-7
Total: 135 hours	

¹Lists of appropriate courses in Social Sciences, Humanities, History, and Communications are available at the Department of Forestry, Wildlife and Fisheries Office.

²Electives are chosen in conference with advisor. Lists of courses for specializations and minors to compliment the Forest Resources Management Concentration are available at the Department of Forestry, Wildlife and Fisheries Office.

³Students will choose one course from Philosophy 110, 130, 240, 290, 342, 346 or Zoology 310.

WILDLAND RECREATION CONCENTRATION

The Wildland Recreation Concentration is an interdisciplinary degree that prepares students to work in natural resource based recreation settings on private and public lands, including local, state, and national parks, and other state and federal agencies and private or non-profit organizations providing outdoor recreational opportunities.

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 constructive use of leisure time.

Elective credits may be used to obtain specializations in complementary areas such as education, cultural and natural history interpretation, forestry, wildlife, fisheries, communication and public relations, agricultural extension education, 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.

Ten weeks of professional internship experience (6 credits) is required during the final 45 hours of credit in the program. The internship is a highly structured field experience guided by specific learning objectives pre-approved by the instructor and the field supervisor. The student receives one credit per two weeks of full-time field experience. Preparations for the internship should be made well in advance of actual placement. Summer employment or volunteer work in a related field prior to the internship is highly encouraged.

	Hours Credit
Freshman	
English 101, 102	6
Mathematics 119, 125	6
Botany 110, 120	8
Lower division Psychology or lower division Sociology or Urban Studies 200 or Anthropology 130	3
Agriculture and Natural Resources 101	3
Forestry, Wildlife and Fisheries 100, 211	4
¹ Electives	3-4
Sophomore	
Forestry, Wildlife and Fisheries 311	3
Economics 201	4
Statistics 201 or Psychology 385	3
Agriculture and Natural Resources 290	3
Chemistry 100	4
Speech 210 or 240	3
Upper division Psychology or upper division Sociology or Geography 320 or 323	3
Journalism 201 or 412 or 450 or 451 or English 295	3
Plant and Soil Science 210	3
Biology 250 or Forestry 315	3-4
Speech 220 or 230 or 270 or 310 or 320 or 330 or 420	3
¹ Electives	2
Junior	
Forestry, Wildlife and Fisheries 312, 313, 317	8
Forestry 321, 423	6
Wildlife and Fisheries Science 341	3
6 hours from Recreation 310, 410, 415, 430, OHLD 280, 370	6
² Ethics Elective	3
¹ Electives	5
Senior	
Forestry, Wildlife and Fisheries 412, 416	6
Forestry 422	3
Forestry, Wildlife and Fisheries 410 or Wildlife and Fisheries Science 443 or 444 or 445	3

Forestry 495	6
Management 301 or 440 or Accounting 201 or Political Science 440 or 441 or Planning 402	3
³ Humanities Elective	3
³ History Elective	3
¹ Electives	6-9

Total: 135 hours

¹Electives are chosen in conference with advisor.²Students will choose one course from Philosophy 110, 130, 240, 290, 342, 346 or Zoology 310.³Lists of appropriate courses in Humanities and History are available at the Department of Forestry, Wildlife and Fisheries Office.

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.

A minor in Wildlife and Fisheries Science consists of 16 hours from Forestry, Wildlife and Fisheries 100, 211 or 250, 317, 410, 416, Wildlife and Fisheries Science 341, 440, 442, 443, 444 and 445.

	Hours	Credit
Freshman		
English 101, 102	6	
Mathematics 119	3	
Biology 130, 140	8	
Chemistry 120, 130	8	
Agriculture and Natural Resources 101	3	
Forestry, Wildlife and Fisheries 100, 211	4	
Sophomore		
Mathematics 125	3	
Statistics 201 or Plant and Soil Science 471	3	
Agriculture and Natural Resources 290	3	
Speech 210 or 240	3	
Animal Science 220 or Ecology and Evolutionary Biology 350 or Biochemistry and Cellular and Molecular Biology 330	3-4	
Plant and Soil Sciences 210	3	
Economics 201	4	
Biology 250	4	
¹ Humanities Elective	6	
Junior		
Forestry, Wildlife and Fisheries 311, 312, 313, 317	11	
Wildlife and Fisheries Science 303, 305, 323, 330, 340, 341, 350, 440, 442	20	
Ecology and Evolutionary Biology 470 or 446 or Plant and Soil Sciences 315	3-4	
Senior		
Forestry, Wildlife and Fisheries 410, 416	6	
Wildlife and Fisheries Science 443, 444, 445, 490	10	
Ecology and Evolutionary Biology 474	3	
Forestry, Wildlife and Fisheries 412, or Forestry 321 or 422	3	
¹ History Elective	3	
General Electives	7-8	

Total: 132 hours

¹Lists 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 a writing intensive course.

ORNAMENTAL HORTICULTURE AND LANDSCAPE DESIGN

Professors:

R.N. Trigiano (Interim Head), Ph.D. North Carolina State; M.L. Albrecht (Associate Dean, College of Agricultural Sciences and Natural Resources), Ph.D. Ohio State; R.M. Augé, 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 Professor:

J.W. Day, Ph.D. Mississippi State; S.M. Rogers, M.L.A. Georgia.

Assistant Professors:

G. L. Menendez, M.S. Tennessee; S. L. Hamilton, Ed.D Tennessee; W. Klingeman, Ph.D. Georgia.

U.T. Agricultural Extension Service Faculty:

G.D. Crater (Emeritus), Ph.D. Ohio State, Professor; S. Garton, Ph.D. Minnesota, Assistant Professor; T.J. Samples, Ph.D., Oklahoma State, Professor.

Advisors:

McDaniel, Menendez, Rogers, 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 student-teacher relationships. They keep track of job openings and assist students during the job selection process. Since most OHLD teachers are also research scientists, undergraduate students interested in advanced studies are directed into appropriate courses necessary for admission to graduate school. Students are also encouraged to work with faculty researchers in a variety of laboratory, greenhouse or field experiments.

The OHLD curriculum is organized into four different concentrations. Each concentration offers a different academic approach to address the breadth of opportunities available to OHLD undergraduate students. A minimum of 132 credit hours including internship is required for each concentration. Full-time summer internships 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 SPECIALITIES

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 retail horticulture (the marketing, 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 advisers. 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 interiorscape firms; directors, curators, public relations managers, education program director, high school or college teachers and employees of botanic 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 studies.

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.

ENROLLMENT MANAGEMENT PLAN

All majors in the Department of Ornamental Horticulture and Landscape Design must meet certain minimum requirements before registering for upper division OHLD classes. Admittance to each of the departmental concentrations will be determined by completion of core courses for an individual concentration, completion of a minimum of 65 credit hours toward the degree, and a minimum cumulative grade point average (GPA) of 2.25.

To be considered for progression into the upper division of the program, majors must submit an application of intent for progression prior to class registration for the next semester. Their transcript will be reviewed by faculty members for completion of all core courses and

meeting the minimum GPA. Students must have completed all but 3 core courses for their concentration by the end of the semester in which they apply for acceptance into upper division courses. They must complete all core courses before entering upper division courses. They will also need the prerequisites to these individual upper division courses.

Once admitted for progression to upper division programs, students must maintain a cumulative GPA of 2.25. Junior and Senior majors in OHL D whose cumulative GPA falls below the minimum of 2.25 will not be allowed to register in OHL D upper division classes until they again meet the required GPA for progression. This enrollment management plan becomes effective for all students enrolling in OHL D on or after Fall semester 2001.

CORE COURSES

Majors must have completed the core courses for their respective OHL D concentration. Students must declare a concentration early in their undergraduate program and strictly follow the curriculum described for it. Students who transfer into OHL D from other colleges or programs must meet the same requirements as those entering the department as freshmen. The core courses for the OHL D concentrations are:

Horticulture Science and Management Majors: two courses in English composition (English 101 and 102 or equivalent); college algebra and finite math or calculus (Math 119 and 123 or 125 or equivalent); general chemistry (Chemistry 100-110 or 120-130 or equivalent); general botany (Botany 110 and 120 or equivalent); soil sciences (PSS 210 or equivalent); basic landscape plants (OHL D 220 or equivalent); microcomputer applications (ANR 290 or equivalent).

Business Concentration Majors: two courses in English composition (English 101 and 102 or equivalent); college algebra and calculus (Math 119 and 125 or equivalent); general chemistry (Chemistry 100-110 or 120-130 or equivalent); general botany (Botany 110 and 120 or equivalent); general accounting (Accounting 201 and 202 or equivalent); soil sciences (PSS 210 or equivalent).

Public Horticulture Majors: two courses in English composition (English 101 and 102 or equivalent); college algebra and finite math or calculus (Math 119 and 123 or 125 or equivalent); general chemistry (Chemistry 100-110 or 120-130 or equivalent); general botany (Botany 110 and 120 or equivalent); soil sciences (PSS 210 or equivalent); general ecology (Biology 250 or equivalent); basic landscape plants (OHL D 220 or equivalent).

Landscape Design Majors: two courses in English composition (English 101 and 102 or equivalent); college algebra and finite math or calculus (Math 119 and 123 or 125 or equivalent); general chemistry (Chemistry 100-110 or 120-130 or equivalent); general botany (Botany 110 and 120 or equivalent); soil sciences (PSS 210 or equivalent); basic landscape plants (OHL D 220 or equivalent); landscape design (OHL D 280 or equivalent).

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 cur-

riculum. Those students interested in attending graduate school should follow this concentration. Careful selection of OHL D courses and other electives in consultation with your academic advisor will prepare graduates for the career of their choice.

	Hours Credit
Freshman	
OHL D 220	3
Botany 110-120	8
Chemistry 100-110 or 120-130	8
English 101-102	6
Math 119 and (123 or 125)	6
¹ Social Science Elective	3
Sophomore	
Select 2 from OHL D 110, 230, 231, or 280	6
Agriculture and Natural Resources 290	3
Select 1 from Biosystems Engineering Technology 202, 212; Botany 310	3-4
Select Biology 250; or Forestry Wildlife and Fisheries 250 and Plant and Soil Sciences 200	4
Economics 201	4
Plant and Soil Sciences 210	3
Speech 210 or 240	3
¹ Historical Studies Elective	3
Integrative Studies Elective	3
Unrestricted Elective	3
Junior	
Select 4 from OHL D 330, 340, 350, 360, 370, 380, 390, or 391	10-12
OHL D 492	3
OHL D Elective	3
Select 2 from Entomology and Plant Pathology 313, 321, 410; Plant and Soil Sciences 311, 334 or 433	6
¹ Humanities Elective	3
¹ Historical Studies Elective	3
Writing or Speech Elective	3
Integrative Studies Elective	3
Senior	
Select 4 from OHL D 410, 421, 426, 429, 430, 431, 440, 450, 451, 460, 480, 485, 493, 494	9-14
OHL D 490	1
Select 1 from ¹ Agricultural Economics Elective or Biosystems Engineering Technology 452 or 462	3
Botany 321	4
Humanities Elective	3
Unrestricted Electives	1-9
Total: 132 hours	

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

	Hours Credit
Freshman	
OHL D 220	3
Botany 110-120	8
Chemistry 100-110 or 120-130	8
English 101-102	6
Math 119 and 125	6
¹ Humanities Elective	3
Sophomore	
Select 2 from OHL D 110, 230, 231, or 280	6
Agriculture and Natural Resources 290	3
Accounting 201-202	6
Economics 201	4
Plant and Soil Sciences 200 and 210	4
Speech 210 or 240	3
Statistics 201	3

Select 1 from Psychology 110 or Sociology 110	3
Integrative Studies Elective	3
Junior	
Select 4 from OHL D 330, 340,350, 360, 370, 380, 390, or 391	10-12
OHL D 492	3
² Business Electives	6
Select 2 from Botany 330; Entomology and Plant Pathology 313, 321, 410; Plant and Soil Sciences 311, 334 or 433	6
¹ Historical Studies Elective	3
Integrative Studies Elective	3
Senior	
Select 3 from OHL D 410, 421, 426, 429, 430, 431, 440, 450, 451, 460, 480, 485, 493, 494	6-11
OHL D 490	1
² Business Electives	6
Writing or Speech Elective	3
¹ Historical Studies Elective	3
¹ Social Science Elective	3
Unrestricted Electives	2-9

Total: 132 hours

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

²Selected from Business Law 301, Finance 301, Logistics 301, Management 301, 321, 341, 431, Marketing 301, 310, 320 or 420. Courses should be selected in conference with academic advisor.

PUBLIC HORTICULTURE CONCENTRATION

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

	Hours Credit
Freshman	
OHL D 220	3
Botany 110-120	8
Chemistry 100-110 or 120-130	8
English 101-102	6
Math 119 and (123 or 125)	6
¹ Humanities Elective	3
Sophomore	
Select 2 from OHL D 110, 230, 231, or 280	6
Agriculture and Natural Resources 290	3
Select 1 from Educational Psychology 210; Public Relations 270; Forestry Wildlife and Fisheries 211; 250	3
Biology 250	4
Economics 201	4
Plant and Soil Sciences 210	3
Speech 210 or 240	3
¹ Historical Studies Elective	3
Integrated Study Elective	3
Junior	
Select 4 from OHL D 330, 340, 350, 360, 370, 380, 390, or 391	10-12
OHL D 492	3
Select 1 from Philosophy 342; Agricultural and Extension Education 346; Journalism 310	3
Select 2 from Botany 309,330; Entomology and Plant Pathology 313, 321, 410; Plant and Soil Sciences 334	6
¹ Social Science Elective	3
Writing or Speech Elective	3
¹ Humanities Elective	3

Senior

Select from OHLD 410, 421, 429, 430, 440, 450, 451, 460, 480, 485, 493, 494	6-11
OHLD 490	1
OHLD 426	3
¹ Historical Studies Elective	3
Integrative Studies Elective	3
Technical Electives	11-19

Total: 132 hours

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

LANDSCAPE DESIGN CONCENTRATION

Landscape designers create aesthetic concepts and practical plans for improved outdoor living. OHLD students study fundamental and advanced landscape design, landscape design graphics, computer aided landscape design, surveying, art, socio-economic impact of plants, field botany, professional practices, basic woody plant identification, landscape construction and maintenance methods. The development of comprehensive design projects helps students prepare for careers in landscape design or advanced studies in landscape architecture. Graduates in design have access to a large segment of the OHLD commodity areas of employment.

	Hours	Credit
Freshman		
OHLD 110	3	
Art 101-103	4	
Botany 110-120	8	
Chemistry 100-110 or 120-130	8	
English 101-102	6	
Math 119 and (123 or 125)	6	
Sophomore		
OHLD 220, 280	6	
Agriculture and Natural Resources 290 or Computer Science 100	3	
Environmental/Technical Elective	3	
Economics 201	4	
Plant and Soil Sciences 210	3	
Speech 210 or 240	3	
¹ Social Science Elective	3	
Writing or Speech Elective	3	
Humanities Elective	3	
Junior		
OHLD 350, 380	5	
Select 4 from OHLD 330, 340, 360, 370, 390, or 391	11-12	
Botany 330	3	
Environmental/Technology Elective	6	
¹ Historical Studies Elective	3	
Integrative Studies Elective	3	
Senior		
OHLD 450, 460, 480, 485	11	
Select 1 from OHLD 421, 426, 429, 493, or 494	3	
OHLD 492	3	
OHLD 490	1	
Environmental/Technology Elective	6	
¹ Historical Studies Elective	3	
¹ Humanities Elective	3	
¹ Electives	7-8	

Total: 132 hours

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

ELECTIVE LIST: ALL CONCENTRATIONS**Integrative Studies Electives:**

Agriculture and Natural Resources 101
American Studies 310
Anthropology 130, 310, 311, 312, 313, 314, 315, 319, 320, 360, 361
Architecture 111
Botany 305

Geography 320, 323, 340, 361
Geology 202
Rural Sociology 380
University Studies 310, 311, 320, 321, 322, 411
Urban Studies 250
Any intermediate foreign language sequence
Writing or Speech Electives:
English 201, 202, 221, 222, 232, 251, 253, 263, 281, 301, 302, 332, 333, 334
Journalism 201, 310
Speech Communication 210, 240, 270, 330
Any Awriting emphasis@ courses

ADDITIONAL ELECTIVE LIST: BUSINESS CONCENTRATION**Business Electives:**

Business Law 301
Finance 301
Logistics 301
Management 301, 321, 341, 431
Marketing 301, 310, 320, 420

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, 433, 471
Educational Psychology 210
Psychology 400
Public Health 410
Public Relations 270, 470
Recreation and Leisure Studies 410, 430
Speech 440
Wildlife and Fisheries Science 211

ADDITIONAL ELECTIVE LIST: LANDSCAPE DESIGN CONCENTRATION**Environmental/Technical Electives:**

Architecture 111
Art 295
Biology 250
Biosystems Engineering 315
Biosystems Engineering Technology 212
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; E.L.
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. Deyton, 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; D.W. Lockwood, Ph.D.
Georgia; W.L. Parks (Emeritus), Ph.D. Purdue;
J.H. Reynolds (Emeritus), 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, M.S.
Tennessee; M.E. Springer (Emeritus), Ph.D.
California (Berkeley); D.D. 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:

V.R. Pantalone, North Carolina State; D.K.
Roinson, Ph.D. North Carolina State; F.R.
Walker, Ph.D. North Carolina State.

Advisors:

Coffey, Lessman, Logan, and Mullen.

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 resources; soil management for optimum crop production, soil conservation and environmental quality; and soil nutrient management for efficient fertilizer and biosolid 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 permit 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 nutrient management and 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
¹ Botany 110, 120	8
Chemistry 120, 130	8
Math 151, 152 or 141, 142	6-8
Sophomore	
Plant and Soil Sciences 210	3
Biology 240	3
Physics 221	3
Geology 101	4
Chemistry 350	3
Microbiology 210	3
Economics 201	4
Speech 210 or 240	3
² Humanities Elective	3
² History Elective	3
Junior	
Plant and Soil Sciences 310, 330, 334, 353	12
Botany 321	3
² Integrated Studies Elective	3
² History Elective	3
² Plant and Soil Sciences Electives	6
² Technical Electives	6
Senior	
Plant and Soil Sciences 401, 412, 413, 431, 471 ...	13
² Non-departmental Agriculture Electives	3
English 295, 360 or Journalism 414, 450, or 451	3
² Humanities Elective	3
² Social Science Elective	3
² Electives	6-8
Total: 132 hours	

¹A two-semester General Biology series may be substituted for Botany only if taken before entering Plant and Soil Sciences.

²Lists of appropriate electives are available and should be selected in conference with academic advisor.

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. degrees in Plant and Soil Sciences or Agricultural Economics or the M.B.A. degree in Business

Administration. Graduates of this curriculum 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
¹ Botany 110, 120	8
Chemistry 120, 130	8
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
Physics 101 or Geology 101	3-4
Speech 210 or 240	3
² Humanities Elective	3
² Social Science Elective	3
² History Elective	3
Junior	
Plant and Soil Sciences 311, 334, 353, 471	12
² Plant and Soil Sciences Elective	3
² Non-departmental Agricultural Elective	3
³ AEB or BA courses	6
Entomology and Plant Pathology 313 or 321	3
² Integrated Studies Elective	3
² History Elective	3
Senior	
Plant and Soil Sciences 401, 435,	4
² Plant and Soil Sciences Electives	6
² Humanities Electives	3
⁴ Agricultural Economics and Business or Business Administration Electives	9
² Writing Elective	3
² Open Electives	7-9
Total: 132 hours	

¹A two-semester General Biology series may be substituted for Botany only if taken before entering Plant and Soil Sciences.

²Lists of appropriate electives are available and should be selected in conference with academic advisor.

³For Agricultural Economics and Business minor, student must take Agricultural Economics 342 and 350; Business Administration minor, student must take Finance 301 and Marketing 301.

⁴For Agricultural Economics and Business minor, students must take Agricultural Economics 412 and one of the following: Agricultural Economics 355, 420, or 442, and 3 additional hours of Agricultural Economics or Business elective. Students pursuing a Business Administration minor see advisor for list of suitable electives.

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 an area 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
Plant and Soil Sciences 200	1
¹ Botany 110, 120	8
Chemistry 120, 130	8
¹ Math 130, 151 or 151, 152 or 141, 142	6-8
Sophomore	
Plant and Soil Sciences 210	3
Agriculture and Natural Resources 290	3
Biology 250	4
Forestry, Wildlife and Fisheries 211 or 250	3
Geology 101	4
Microbiology 210	3
Economics 201	4
Speech 210 or 240	3
² Humanities Elective	3
² History Elective	3
Junior	
Plant and Soil Sciences 310, 311, 330	9
Chemistry 350 or 110	3-4
English 295, 360 or Journalism 414, 450 or 451	3
² Integrated Studies Elective	3
² History Elective	3
² Humanities Elective	3
² Directed Technical Electives	9
Senior	
Plant and Soil Sciences 401, 413, 431, 471	10
Plant and Soil Sciences 315 or 415 or Geology 485	3
Agricultural Economics 470 or Economics 462	3
² Engineering Elective	3
² Social Sciences Elective	3
² Directed Technical Electives	9
² Open Electives	0-3
Total: 132 hours	

¹A two-semester General Biology series may be substituted for Botany and Math 123, 125 may be substituted for Math 130, 151 or 151, 152 or 141, 142 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 or 141, 142 series.

²Lists 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, 343, 345, 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, 330, 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, 343, 345, 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 301
Logistics 301
Management 301, 321, 341, 431
Business Electives:
Business Law 301
Finance 301
Logistics 301
Management 301, 321, 341, 431
Marketing 301, 310, 320, 420

NON-DEPARTMENTAL AGRICULTURE**ELECTIVES:**

Biosystems Engineering Technology 442,
462
Animal Science 330
Entomology and Plant Pathology 313, 321
Ornamental Horticulture and Landscape
Design 310, 340

PLANT AND SOIL SCIENCES ELECTIVES:

Plant and Soil Sciences 230, 412, 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, 343, 345, 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
Biology 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)