UNDERGRADUATE CATALOG/1988-89
THE UNIVERSITY OF TENNESSEE/KNOXVILLE
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
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

EEO/TITLE IX/SECTION 504 STATEMENT
The University of Tennessee, Knoxville 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-Knoxville 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 by and admission to the University.
Inquiries concerning Title IX and Section 504 should be directed to the Office of the Director for Affirmative Action, 403B Andy Holt Tower, 974-2498. Charges of violation of the above policy should be directed to the Office of the Director for Affirmative Action.
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THE UNIVERSITY OF TENNESSEE BOARD OF TRUSTEES

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

From Congressional Districts
R.B. Hailey. Sevierville First 1984 June 1, 1993
William B. Sansom, Knoxville Second 1986 June 1, 1995
Scott L. Prebasco, Jr., Lookout Mountain Third 1979 June 1, 1998
William M. Johnson, Sparta Fourth 1975 June 1, 1991
Marcia Austin Echols, Nashville Fifth 1979 June 1, 1991
Ben S. Kimbrough, Clarksville Sixth 1980 June 1, 1990
Amon Carter Evans, Columbia Sixth 1984 June 1, 1993
Turner O. Lashlee, Humboldt Seventh 1979 June 1, 1988
Tom Elam, Union City Eighth 1956 June 1, 1990
Ronald Terry, Memphis Ninth 1986 June 1, 1995

From Anderson, Bedford, Coffee, Franklin, Lincoln, Moore, and Warren Counties
Charlotte Parish 1979 June 1, 1988

From Davidson County
Michael Graves 1984 June 1, 1993

From Hamilton County
Paul J. Kinser 1969 June 1, 1998

From Knox County
Ann Baker Furrow 1971 June 1, 1989
James A. Haslam, II 1980 June 1, 1989

From Shelby County
Sam Cooper 1981 June 1, 1990
Jack J. Craddock 1981 June 1, 1990

From Weakley County
James F. Harrison 1981 June 1, 1990

Student Member
Tina L. Lobetti 1987 July 1, 1988

Officers of the Board
Ned McWherter, Chairman
William M. Johnson, Vice Chairman
Edward J. Boling, President
A. David Martin, Treasurer
Beauchamp E. Brogan, Secretary
Linda Logan, Assistant Secretary

THE UNIVERSITY OF TENNESSEE
Administration and Service

President, Edward J. Boling, B.S., M.S., LL.D., Ed.D.
Executive Vice President and Vice President for Development, Joseph E. Johnson, A.B., A.M., Ed.D.
Vice President for Academic Affairs and Research, John W. Prados, B.S., M.S., Ph.D.
Vice President for Agriculture, W.W. Armistead, D.V.M., M.S., Ph.D.
Vice President for Business and Finance, Emerson H. Fly, B.S., C.P.A.
Vice President for Health Affairs and Chancellor of the Center for Health Sciences, James C. Hunt, A.B., M.S., M.D.
Vice President for Public Service and Continuing Education, Robert S. Hutchison, B.S., M.B.A.

General Counsel, Beauchamp E. Brogan, B.S., J.D.
Treasurer, A. David Martin, B.S., M.B.A., C.P.A.

Emeriti Administrators:
Emeritus Vice President for Business and Finance, W. Harold Read, B.S., M.B.A., C.P.A.
Emeritus Vice President for Academic Affairs, Kenneth L. Knickerbocker, A.B., A.M., Ph.D.
Emeritus Treasurer, Brodie Baynes, B.S., C.P.A.
### ACADEMIC CALENDAR FOR 1988-89

#### SUMMER QUARTER, 1988

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>June 8</td>
<td>Registration, First Term</td>
</tr>
<tr>
<td>June 9</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>July 4</td>
<td>Independence Day Holiday</td>
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<tr>
<td>July 11</td>
<td>Classes End, First Term</td>
</tr>
<tr>
<td>July 6-8</td>
<td>Registration, Second Term</td>
</tr>
<tr>
<td>July 12</td>
<td>Classes Begin, Second Term</td>
</tr>
<tr>
<td>August 10</td>
<td>Classes End</td>
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<tr>
<td>August 12</td>
<td>Commencement</td>
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#### FALL SEMESTER, 1988

<table>
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<tbody>
<tr>
<td>August 22-23</td>
<td>Registration</td>
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<tr>
<td>August 24</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>September 5</td>
<td>Labor Day Holiday</td>
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<tr>
<td>November 24-25</td>
<td>Thanksgiving Holiday</td>
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<tr>
<td>December 6</td>
<td>Classes End</td>
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<tr>
<td>December 7-8</td>
<td>Study Period</td>
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<tr>
<td>December 9-14</td>
<td>Final Exams</td>
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<tr>
<td>December 16</td>
<td>Commencement</td>
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#### SPRING SEMESTER, 1989

<table>
<thead>
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<tr>
<td>January 9-10</td>
<td>Registration</td>
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<tr>
<td>January 11</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>January 16</td>
<td>Martin Luther King Day Holiday</td>
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<tr>
<td>March 20-24</td>
<td>Spring Break</td>
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<tr>
<td>May 1</td>
<td>Classes End</td>
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<tr>
<td>May 2-3</td>
<td>Study Period</td>
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<tr>
<td>May 4-9</td>
<td>Final Exams</td>
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<tr>
<td>May 12</td>
<td>Commencement</td>
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</table>

#### SUMMER TERM, 1989

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>May 16</td>
<td>Registration</td>
</tr>
<tr>
<td>May 17</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>June 27</td>
<td>First Session Ends</td>
</tr>
<tr>
<td>June 28</td>
<td>Second Session Begins</td>
</tr>
<tr>
<td>July 4</td>
<td>Independence Day Holiday</td>
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<tr>
<td>August 9</td>
<td>Second Session Ends</td>
</tr>
<tr>
<td>August 11</td>
<td>Commencement</td>
</tr>
</tbody>
</table>
THE UNIVERSITY OF TENNESSEE, KNOXVILLE

Administrative Officers

Chancellor, Jack E. Reese, A.B., A.M., Ph.D.
Executive Assistant to the Chancellor, Donald R. Eastman III, A.B., Ph.D.
Provost, George W. Wheeler, B.S., M.S., Ph.D.
Vice Provost, Hardy Liston, Jr., B.S., M.E.A.
Vice Provost, Ralph V. Norman, Jr., A.B., B.D., M.A., Ph.D.
Vice Provost and Dean of Graduate School, C.W. Minkel, B.A., M.A., Ph.D.
Vice Provost for Research, Thomas C. Collins, B.S., M.S., Ph.D.
Associate Provost, Anne Hopkins, A.B., A.M., Ph.D.
Executive Vice Chancellor for Business, Planning and Finance, Homer S. Fisher, B.S., M.B.A.
Associate Executive Vice Chancellor for Business, Planning and Finance, Betsey B. Creekmore, A.B., M.A., M.A.L.S.
Associate Executive Vice Chancellor for Business, Planning and Finance and Director of Personnel, Edward K. Bennett, B.S.
Vice Chancellor for Student Affairs, Philip A. Scheurer, B.A., M.S.
Assistant Vice Chancellor for Student Affairs, Bert E. Sams, B.S., M.S.
Vice Chancellor for Development and Alumni Affairs, Jack E. Williams, B.S.
Assistant Vice Chancellor for Development, Linda Davidson, B.A.
Assistant Vice Chancellor for Alumni Affairs, Martha Kirk, B.S.

General Administrative Officers

Athletics, Director, Doug Dickey
Finance, Director, Harold B. Whitehead, B.S., C.P.A.
Physical Plant, Director, John C. Parker, B.S.
University Communications, Director, John Clark, M.S.
Student Affairs:
Admissions and Records, Dean, Gerald Bowker, B.A., M.A.
Career Planning and Placement Service, Director, Robert Greenberg, B.A., M.S., Ed.D.
International Student Affairs, David C. Larsen, B.A., M.A., Ph.D.
Intercollegiate Athletics for Women, Director, Joan Cronan, B.S., M.S.
Student Conduct, Dean, Charles R. Burchett, B.S., M.A.
Student Counseling Center and Special Services, Director, Richard L. Nash, B.A., M.S., Ed.D.
Student Health Service, Administrator, Fred E. Young, Jr., A.B., M.C.

Colleges and Schools

AT KNOXVILLE
Institute of Agriculture
Dean, College of Agriculture, O. Glen Hall, B.S., M.S., Ph.D.
Dean, College of Veterinary Medicine, Hyram Kitchen, D.V.M., Ph.D.
School of Architecture
Dean, Roy F. Knight, A.B., M.Arch.
College of Business Administration
Dean, C. Warren Neel, B.S., M.B.A., Ph.D.
College of Communications
Dean, Kelly Leiter, B.A., M.A., Ph.D.
Division of Continuing Education
Dean, Joseph P. Goddard, B.S., M.S., Ed.D.
College of Education
Dean, Richard Wisniewski, B.S., M.E.D., Ed.D.
College of Engineering
Dean, William T. Snyder, B.S., M.S., Ph.D.
College of Human Ecology
Acting Dean, Jacqueyln DeJonge, B.S., M.A., Ph.D.
College of Law
Dean, Marilyn Yarbrough, B.A., J.D.
College of Liberal Arts
Dean, Lorman Ratner, A.B., M.A., Ph.D.
Graduate School of Library and Information Science
Director, Ann E. Prentice, A.B., M.L.S., D.L.S.
College of Nursing
Dean, Sylvia E. Hart, B.S.N., M.S.N., Ph.D.
School of Planning
Director, James A. Spencer, B.S., M.C.P.
College of Social Work
Dean, Ben P. Granger, B.A., M.P.A., M.S.S.W., Ph.D.
Independent Departments
Air Force Reserve Officers' Training Corps Professor of Air Science, Arthur Ahl, M.S., Colonel, USAF
Army Reserve Officers' Training Corps Professor of Military Science, Hugh E. Howard, B.S., M.A. LTC, USA

AT OAK RIDGE
Oak Ridge Graduate School of Biomedical Sciences
Acting Director, Raymond A. Popp, B.S., A.M., Ph.D.

AT TULLAHOMA
Space Institute
Dean, Kenneth E. Harwell, B.S., M.S., Ph.D.

Other Educational and Public Service Units

Libraries
Director, Donald R. Hunt, B.A., M.A., M.A.L.S.
Continuing a tradition of service begun in 1794, The University of Tennessee's Knoxville campus carries out a unique mission in higher education in the Volunteer State. Leadership in graduate and professional studies, research and creative activity, and public service enriches selective undergraduate programs and defines UTK Knoxville's distinctive identity as the state's "campus of excellence".

UTK Chancellor Jack Reese heads the campus, which offers a broad range of undergraduate, graduate, and professional degree programs. Among UT Knoxville's more than 25,000 students are men and women from every county in Tennessee, each of the 50 states, and more than 90 countries.

Faculty and staff are working constantly to enhance the quality of students' educational experiences. Because of its effectiveness in using information from student tests and surveys to improve teaching and service to students in 1984, UT Knoxville was the only university in the U.S. selected to receive an award by the National Council for Measurement in Education.

Development in graduate education has been accompanied by growth of major research programs, particularly in the field of energy, and expanded cooperation with Oak Ridge National Laboratory and the Tennessee Valley Authority.

The "Science Alliance" between UT Knoxville and ORNL is designed as the top priority in Tennessee's Centers of Excellence program for higher education. The most recent step taken to strengthen cooperative instructional and research activities is the Distinguished Scientist Program, designed to attract some of the nation's most eminent scientists to joint appointments at the two institutions.

Public service activities extend the utilization of the University's resources throughout the state. Continuing education programs respond to the needs of working adults who are seeking college degrees or preparing for career advancement by keeping up with the latest developments in their professional fields.

UTK students enjoy a wide variety of cultural activities. The Clarence Brown Theatre, named for the Hollywood director and UTK graduate and benefactor, is the home of one of the nation's most innovative theatre programs.

Libraries with more than 2 million volumes and volume-equivalents enhance an educational program dedicated to keeping pace with a changing society. A new 350,000-square-foot main library in the heart of the campus has just been completed. The new library meets critical research space needs for students and faculty and incorporates the latest advances in computer and automation technology.

Historical Background

The University of Tennessee traces its origins back to the days when George Washington was President of the United States - back to the days even before Tennessee became a state.

In 1794, two years before statehood was achieved, the Legislature of the Federal Territory which later became Tennessee granted a charter to Blount College, the earliest predecessor of the University of Tennessee. Blount College was named in honor of William Blount, Governor of the Territory, and was located near the center of Knoxville's present business district.

With its founding as Blount College, the University is listed as one of the older institutions of higher education in the nation. It was strictly non-sectarian in character, which was unusual for an institution of higher education in that day. The institution has remained non-denominational to the present time and is said to be the oldest such institution west of the Appalachian Divide.

Blount College for a few years admitted women as students, thus becoming the first coeducational college in the United States. It is probable, though, that these first coeds were engaged in preparatory rather than collegiate study. The institution later restricted enrollment to men, but reestablished its coeducational status on a permanent basis in 1892.

In 1807 the institution began to widen the scope of its service area. During that year the State Legislature changed the institution's name to "East Tennessee College" and made it the recipient of one-half of the proceeds of the sale of land set aside by Congress for the support of colleges. In 1826 the present site at Knoxville, the 40-acre tract known as "The Hill", was acquired by East Tennessee College.

In 1840, the State Legislature changed the institution's name to "East Tennessee University". The Civil War forced the institution to close for a period; its buildings were used as a hospital for Confederate troops and were later occupied by Union troops. East Tennessee University reopened after the war, and from that time to the present, the institution has enjoyed its most significant advances.

In 1869, East Tennessee University was selected by the State Legislature as Tennessee's Federal Land-Grant Institution, under terms of the Morrill Act passed by Congress in 1862. This designation enabled the University to broaden its offerings by establishing an Agricultural and Mechanical College. The new program was supported by an endowment resulting from the sale of land warrants received by Tennessee from the federal government.

Ten years later, in 1879, East Tennessee University was chosen by the State Legislature as Tennessee's State University, and its name was changed to "The University of Tennessee". By this act the University became pledged to the service and interest of the entire state. The state pledged to the University its own name and reputation, promising the institution a vital role in the progress of the state.

The University today is a statewide institution in terms of its physical locations as well as its services. The Center for the Health Sciences, founded in Nashville and taken over by the University in 1879, was moved to Memphis in 1911. The Martin campus was established in 1900 as a private
institution, Hall-Moody Junior College, and it became a part of The University of Tennes-see in 1927. The School of Social Work at Nashville became part of the University in 1951. A fourth primary campus was established at Chattanooga in 1957. UTN's aca-
demic programs were merged with those of Tennessee State University in 1979.

Agriculture Experiment Stations were established in Jackson, Spring Hill (Colu-
mbia), Springfield, Lewiston, Crossville, Wartburg, Oak Ridge, Greeneville, and Grand Junction. The Division of Continuing Educa-
tion, Knoxville, conducts evening classes, workshops and off-campus programs, con-
fferences, and non-credit programs for the campus. The Agricultural Extension Service, with
district offices at Jackson, Nashville, Cookeville, Chattanooga, and Knoxville, has
agricultural extension leaders and agents in each of Tennessee's 95 counties.

In 1968, the Board of Trustees reor-
ganized the institution into a University system, giving a central administrative staff respon-
sibility for statewide functions of the University. Each primary campus came
under the administrative direction of a chan-
cello.

State Legislatures and Governors of Tennessee, particularly those of the past half
century, have shown an active interest in the development of The University of Tennes-
see. Such support has helped the University broaden and strengthen its efforts to meet the
educational, research, and service needs of the people of Tennessee through pro-
grams which have earned national and international recognition.

Student Affairs and Services

Academic Common Market

The Academic Common Market is an
interstate agreement among Southern states for sharing unique programs. Participating
states are able to make arrangements for their residents who are fully admitted to
specific programs at UTK on an in-state tu-
tion basis, where these programs are not
available in the state of residence.

Cooperating states in the Academic
Common Market are Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mary-
land, Mississippi, South Carolina, Tennessee, Texas, Virginia and West Virgin-
ia. Twenty doctoral, one Specialist in Educa-
tion, and one Master's programs at UTK are approved by the Academic
Common Market for residents of these
states to enroll at in-state tuition rates.

Residents of one of the member states
who seek further information should contact the Residency Clerk in the Office of Gradu-
ate Admissions and Records or the Southern Regional Educational Board, 130 Sixth
Street, N. W., Atlanta, GA 30313.

Annual Faculty Phi Kappa Phi Lectures

The Honor Society of Phi Kappa Phi sponsors two annual lectures on campus, open
to the public: a lecture in the fall by a scholar recognized by the campus communi-
ty and one in the spring by a distinguished professor of UTK selected a year before by
the Executive Committee of Phi Kappa Phi. Past and present Phi Kappa Phi Faculty Le-
tures: E. Stansbury (1956), Alvin Thaler (1957), Charles P. White (1958), William E.
(1962), Alvin H. Nielsen (1963), Lee S. Greene (1964), Lloyd F. Seatz (1965), Aaron
Ernest Furchgott (1970), George R. Feiwel (1971), Anand Mall (1972), Nathalia Wright
(1973), Howard Pollio (1974), Henry A. Fri-
bourg (1975), Arthur Brown (1976), Dale G.
Cleaver (1977), Richard C. Marius (1978),
Otis H. Stephens (1979), LeRoy Graf (1980),
Ommer Milton, Jr. (1981), Walter Herndon
(1982), Nancy Goslee (1983), Ralph Allen

Athletics

The University of Tennessee, Knoxville, encourages athletics as a part of its educa-
tional program. Men's intercollegiate sports are directed by the Department of Intercol-
legiate Athletics, George R. Woodruff, Director. Women's intercollegiate sports are adminis-
tered through the Student Affairs and are under the direction of the Depart-
ment of Intercollegiate Athletics for Women, Joan Cronan, Director.

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

There are women's teams in basketball, swimming, tennis, volleyball, cross country, and indoor and outdoor track and field. Inter-
collegiate 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 infor-
mation can be obtained by writing to the
Director of Women's Athletics, 115 Stokely
Athletics Complex, Knoxville, TN 37996-1460.
A varied intramural and sports club pro-
gram is provided for all students. These
programs are directed by the Office of Rec-
reation and are housed at the Student Aquatics Center.

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.

The stadium, built and developed by the
Department of Athletics over a period of
years, can now accommodate over 91, 249
spectators.

OTHER FACILITIES

Tom Black Track is host to regional and
national meets and is built to Olympic
specifications. Hudson Field, baseball field and
stadium seat 1,500 fans in addition to
providing dugouts and press box facilities.
New tennis courts also afford an excellent
vantage point for spectators.

Black Cultural Center

The Center represents one effort by the
University to promote awareness of the
nature of the Black experience and the con-
tribution of Black America to the national
past. The Center seeks to fulfill this role
through a variety of programs and occa-
sions. Typical of its cross-campus work is
sponsorship of Black History Week and the
Black Arts Festival. Within the Center itself
exhibits related to the Afro-American past,
small group lectures, group study sessions,
and a tutorial program. Especially at
minority students are a few of the ongoing
activities.

The Center is located at 812 Volunteer
Boulevard. All members of the University
community are invited to visit this location
and utilize the opportunities provided by the
Center for increased knowledge about the
Black experience.

Career Planning and Placement Service

The Career Planning and Placement Service assists students in assessing career
alternatives and in making a successful tran-
sition from The University to the world of
work. The Service is staffed to provide indi-
vidualized and group assistance to UTK
students. The Service is especially well
known for offering effective placement help
by means of campus recruitment, job refer-
rals, and other sources of job contacts.

Included in the specific programs offered
at Career Planning and Placement are, DIS-
COVER, a computer aided career guidance
system; CAREER PLANNING, a 10-hour
seminar on Career Decision-Making to assist
in choosing a major area of study; CAREER
LIBRARY, including books, magazines, arti-
cles, brochures, videotapes; CAREER
CONNECTIONS, comprehensive career
newspaper published each fall, with the
latest news relating to the job market;
CAREER FOCUS, panel discussions of
recruiters discussing specific areas in the job
market; COOPERATIVE EDUCATION, oppor-
tunities for alternating terms of school and
full-time work experience; CAREER CARNI-
VAL, an annual career fair providing
opportunity to speak informally with repre-
sentatives from 80-100 different companies
about their entry level jobs and hiring prac-
tices; SUMMER JOBS, a summer job fair.
A biweekly summer job newsletter is sent to
interested students; FOOTWORK, a program
permitting students to interview a profes-
sional in career fields they are considering;
EMPLOYER INFORMATION, on hundreds of
companies that recruit at UT. Learn about types of majors sought, departmental units, job descriptions, career profiles, annual reports, and other pertinent information; WORKSHOPS, instruction in the secrets to successful interviewing, resume preparation, and other topics; ON-CAMPUS INTERVIEWS, attend an orientation workshop to prepare for on-campus interviews during your senior year. Over 12,000 interviews are scheduled each year with approximately 350 different companies; JOBS NEWSLETTER, published biweekly - one newsletter for positions in education, one newsletter for business, industry, and government; and ALUMNI CREDENTIAL SERVICE, for assistance in the job search after your degree work is finished.

For information regarding Career Planning and Placement Services call 974-5435.

Center for Extended Learning

The UT Center for Extended Learning is a department which supports the extension of existing courses and new learning opportunities beyond the primary campuses of The University of Tennessee. The Center utilizes various communication and teaching media - correspondence courses, videotape, broadcast and closed-circuit television, audiotape, radio, and print media - to provide learning opportunities to individuals and groups.

CEL extends college credit courses, non-credit courses, and high school courses for qualified people in the most accessible locations: their homes, local schools, and job sites. Through the Center for Extended Learning, The University of Tennessee is able to overcome geographic limitations in performing its services as Tennessee's land-grant institution of higher education.

For information on enrollment, costs, books, and credit, write: Center for Extended Learning, 420 Communications and University Extension Building, The University of Tennessee, Knoxville, Tennessee 37996-0300. Telephone: (615) 974-5135.

Center for International Education

International students interested in applying to UTK should consult the requirements listed in the International Student Applicants section of this Catalog, or for graduate studies, the Graduate Catalog. The Center for International Education, 201 Alumni Hall, 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. The Center is the University's official representative to INS, to international educational organizations and to foreign governments. It maintains current records on all UTK-related U.S. visa holders.

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

The Center's International House provides a rich array of programs intended to bring together members of the international and the U.S. communities to share their cultural values and customs and to learn of those of others. At I-House English language classes are available for spouses, seminars of international interest are taught, and area volunteers work for intercultural communication and cultural understanding.

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 50 universities throughout the world becomes possible and affordable for UTK students are available.

Computing Center

The University of Tennessee Computing Center (UTCC) provides computing facilities and services for the University's teaching, research, public service and administrative activities. UTCC offices and principal computing facilities are located on the first two floors of Stokely Management Center and on the P2 level and first floor of Andy Holt Tower.

UTCC maintains remote job entry stations for batch work and sites for interactive computer work on the Knoxville campus, and supplies computing services to the other campuses in the UT System through remote job entry facilities.

UTCC periodically offers intensive training seminars on the utilization of the IBM and VAX computers for faculty, staff and graduate students. UTCC also offers non-credit short courses each quarter in topics such as programming languages and special purpose programs. These courses are announced in the UTCC Newsletter, the "Campus Capsule" section of the UT Daily Beacon, and Context, a publication announcing campus events.

Forms to request computing services are available from the receptionist, 200 Stokely Management Center. All users of UTCC facilities are assigned a consultant for assistance in the effective use of computing resources.

Cultural Opportunities

THEATRE

The UT Theatres, under the aegis of the Department of Theatre, present several series of plays: i) three adjourning, excellently equipped theatres: The Clarence Brown Theatre (600 seats), Laboratory Theatre (150 seats), and the Carousel Theatre (400 seats); Productions range from proscenium to full arena, and from the most lavish and prestigious to the most intimate and experimental.

The Clarence Brown Company puts on four plays a year, the University Company normally presents five plays per year, the Theatre Students Association presents eight and ten. Two plays for children are performed yearly for the area schools, and there are also semester class projects in directing, readers' theater, forensics, language and drama, the Clarence Brown Company, Tennessee's only fully professional company concentrates on the classical repertoire, and its productions have travelled to the Kennedy Center and Broadway.

All University students are welcome to take part in plays staged in these theatres and to participate in all other aspects of play production.

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, decoration, and architecture, and natural history. Temporary and permanent exhibits are presented on those subjects. The Eleanor Deane Audiger Art Collection features a selection of original and copies of art objects from various periods through the turn of the century. The collection was presented to the University by Louis Bailey Audiger in memory of his wife. Archaeological specimens, some as old as 12,000 years, that have been recovered during the University's extensive excavations in the Tennessee River Valley are included in a major exhibit in the Main Gallery. In the Green Memorial Room are exhibits on the history of Knoxville, the University and East Tennessee.

Changing temporary Lobby exhibits and other exhibits in the Museum are installed throughout the year.

ART

Art exhibitions of international, national, regional, and local artists and craftsmen are sponsored on a regular basis by the UT Art and Department of Art in the galleries of the Art and Architecture Building, Arrowmont School of Arts and Crafts, Gatlinburg, Tennessee, displays works by faculty and students during the summer months.

Christmas Art Sale is an annual event sponsored by the Department of Art and held in the Art Gallery of the Museum in early December. Students, faculty, and regional artists display modestly priced works for purchase in time for Christmas. Numerous art exhibitions are scheduled in the Art Gallery throughout the year.

Rajni 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.

MUSIC

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

UT Singers are known as the University's "Good Will Ambassadors". Among the many projects of this group are the annual statewide tour each spring and tours abroad on alternate years.
UT Opera Theatre and Workshop presents three performances yearly. The varied program of operatic music ranges from one-act to complete three-act operas with symphonic orchestras and from television opera to selected scenes from the classic repertory.

UT Symphony Orchestra plays concerts on campus yearly as well as serving as orchestra for opera and choral productions. During winter and spring, the band is divided into two concert groups which tour the South: a very pep band that performs at basketball games, and the laboratory group which provides valuable training for its members.

Requests for information on scholarships and memberships should be sent to the Director, Pride of the Southland Band.

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

The Scottish Rite Masonic Chair of Choral Art at 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 Department of Music.

The Grace Moore Collection. After the death of opera star Grace Moore, a native of East Tennessee, her family donated to the University a large collection of memorabilia which is viewed by appointment at the Frank H. McClung Museum.

CONCERTS
There are two committees on campus charged with the responsibility of providing the University community with the finest names in popular and cultural programs.

Campus Entertainment Board. This student and staff committee has the exclusive responsibility to sponsor popular entertainment on campus through its major concert series and the presentation of other concerts at various locations across the campus.

Cultural Attractions Committee. A student, faculty and staff committee, this group is responsible for the presentation of programs in the arts to include dance, music, and theatrical production.

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

BROADCASTING
WUOT, operating on 91.9 mhz. from Knoxville, and WUTC, operating on 88.1 mhz. from Chattanooga, serve the public radio needs and interests of people in East Tennessee with cultural, informational, and educational programs. WUOT broadcasts in stereo with 100,000 watts power and WUTC broadcasts with 50,000 watts power. The stations are on the air 24 hours each day with a classical, fine arts format designed to enrich the quality of life for those within reception range. Programming includes classical, folk, and jazz music; news and public affairs; drama, documentaries, discussion and exposition of current events; and other programs of social significance.

WUOT is a charter member of National Public Radio and the Southern Educational Communication Association radio division. WUTC is an associate member of both organizations.

The Educational Assistance Program
The Educational Assistance Program (EAP) is a federally funded project (Special Services for Disadvantaged Students) designed to help freshman and sophomore students who may, because of previous academic weaknesses or disadvantages, have difficulty in achieving academic success during their initial University experience. The program offers specially designed courses in mathematics, biology, English, and educational psychology. The courses function in such a manner that each student receives individual help and is given every opportunity for success. The opportunities include small classes, the availability of the professor for individual help, special help sessions, individual and small-group tutors, self-paced courses, individual academic advising each term, and both academic and personal counseling services. In addition, the EAP staff attempts to serve as a liaison for the student in any area of University experience in which the student needs help.

The offices of the program are located on the ground floor of the Student Counseling Center at 900 Volunteer Boulevard. Phone number: 974-6087.

Food Service Facilities
Excellent University-operated food service facilities are air-conditioned, conveniently located in relation to residence halls, and serve nourishing food at reasonable prices. The University recognizes the educational role that its food service facilities play in student life and group living. The Food Services Department employs a skilled dietetic and management staff to assure that the student gets the highest quality meal at the lowest possible cost.

Room and board meal arrangements offer the best combination of balanced, nutritious meals, carefully planned and served at a reasonable charge to the student. For students not under the Board Plan, meals can also be obtained from cafeterias operated on a cash basis.

In addition, the Food Services Department offers a charge plan whereby students may charge meals and have the bill rendered to their parents monthly. A prepaid charge plan, "Dining Plus," is available to certain students, faculty and staff. With a modest prepayment of at least $100.00 students may charge meals and receive a bonus credit of 5% of the prepaid amount. With a prepayment of $200.00 or more students receive a bonus credit of 10% on the prepaid amount.

For the late evening snack or morning coffee break, popular spots on campus are the delicatessen and grill operations. Students are invited to take advantage of the special "theme" meals offered in the University dining facilities throughout the year.

Handicapped Student Services
Handicapped Student Services provides counseling and academic support services to insure that handicapped students have access to educational opportunities provided at The University of Tennessee. Any student having a disability which restricts his/her participation in academic life is eligible for services. Services provided include personal and career counseling, interpreters, reader referral, and other services designed to help the student achieve academic goals. Assistance is available for making arrangements for special in-class assistance. Information regarding transportation and housing is provided. The office serves as a liaison capacity with the Tennessee Division of Vocational Rehabilitation. Registration and other forms of administrative assistance and academic support are provided through the Office of the Dean of Admissions and Records.

Participation in the services program is on a voluntary basis; confidentiality is maintained. Students desiring any services are encouraged to contact the Office of Handicapped Student Services so that necessary arrangements can be made. The office is located at 900 Volunteer Boulevard. Phone number: 974-6087.

Services relating to academic programs for students with physical disabilities, whether permanent or temporary (due to sickness or accident), are coordinated by the Office of the Dean of Admissions and Records, 305 Student Services Building.

The servisance during registration (preregistration, collection of class schedules, payment of fees, drop and add); the adjustment of schedules to assure classroom accessibility; the securing of special parking permits, elevator keys, tickets for special events; and similar efforts to relieve the special mobility problems of the students. The Physical Plant Office coordinates efforts to eliminate physical barriers to the degree possible, with priority being given to access and facilities for academic buildings.

Hearing and Speech Services
The Hearing and Speech Center, located at the corner of Yale Avenue and Stadium Drive, offers complete diagnostic and therapeutic services to all University students with hearing and/or speech problems. There is no charge for services to University students.

The Center serves as clinical observation and training facility for students majoring in speech and hearing disorders. It also serves as a community Hearing and Speech Center, providing diagnostic and therapy services for speech, language and hearing disorders for persons of all ages.
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 first-year 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 the 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 occupancy. If a student withdraws from the University, the housing contract is released in accordance with policies stated in the contract. Students assigned to residence halls desiring a board plan will be issued contracts written to handle both room and board. A contract for housing assigned 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 Office of Residence Halls, 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.

Minority Student Affairs

The Office of Minority Student Affairs is designed to enhance the quality of life for Minority Students. Working in conjunction with other campus and community groups, the office helps identify, encourage, and assist students who have academic potential and motivation to develop their talents at UTK.

Housed within the Black Cultural Center, the office furnishes information about educational, employment and financial assistance opportunities, offers tutorial services and career development programs.

The office is located at 812 Volunteer Boulevard.

Ombudsman Office

Personnel of the Ombudsman Office in the University Center assist students in the resolution of problems encountered with any aspect of the University. The office is open during the regular working day and students are welcome to drop in at their convenience.

Problems are treated confidentially and are dealt with expeditiously. This office supplements existing appeals channels and actively seeks better ways for the University to serve student needs.

Religious Resources

The University, established by a government that recognizes no distinction among religious beliefs, seeks to promote no creed nor to exclude any.

However, it will always be diligent in promoting the religious spirit and life of its students.

Student Conduct Office

The Student Conduct Office is concerned with the individual rights and responsibilities of students. The personnel of this office serve as advisors to the student judicial system and, when necessary, initiate appropriate discipline proceedings.

Student Counseling Services Center

The Student Counseling Services Center provides services designed to help students with educational, vocational, personal, and social problems. Professional counselors work with the student in a setting that allows confidential discussion of the student's concerns. In addition, various groups are employed to meet the developmental needs of the student. These group settings provide the opportunity to share and learn from others and/or improve specific skills. Psychological tests may be used for self-evaluation. Also an information library is maintained.

The Student Conduct Office is concerned with the individual rights and responsibilities of students. The personnel of this office serve as advisors to the student judicial system and, when necessary, initiate appropriate discipline proceedings.

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 hours, paying the optional health fee). These outpatient services are available continuously throughout every term.

The Health Service has a regular staff of primary physicians, nurses, laboratory and x-ray technicians of Tennessee licensure. Outpatient services in the fields of general practice, internal 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.

Virtually all medical services at the campus clinic are provided to eligible students at no additional cost while charges are made for some services such as x-rays, lab tests, and injections received through the evening/weekend clinic at The University of Tennessee Memorial Hospital.

The primary clinic at 1818 Andy Holt Avenue maintains scheduled daytime hours Monday through Friday. Emergency care...
during evenings and weekends is available through the emergency room student health clinic at The University of Tennessee Memo-
rnal Hospital during the breaks after summer and fall terms. Ambulance and transportation service for the campus is pro-
vided by the Campus Police.

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

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

Student Orientation Office

On the 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 full listing of all student organizations is found in Hilltopics. All of these clubs and organizations are under the general supervision of the Student Activities Office.

Student Publications

A number of student publications are printed during each school year to serve as sources of information for new 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, a quarterly literary magazine, are sponsored by The University of Tennessee Student Publications Board.

Other student publications are:

- Sorority Scope, published annually by the Panhellenic Council to provide information about the sororities at the University.
- IFC Rush Brochure, published annually by the Interfraternity Council to acquaint male students with the fraternities.
- The Tennessee Engineer, published by students and faculty of the College of Engineering to inform students and alumni of progress in the engineering field.
- The Tennessee Farmer, published quarterly by the College of Agriculture Student-Faculty Council for those students and alumni interested in developments in agriculture.

The Tennessee Law Review, published quarterly by students of the College of Law.

Student Rights and Responsibilities

By registering in 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 relating 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 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 suspension from the University.

Vehicle Operation and Parking

The University of Tennessee endeavors to provide adequate traffic control and parking facilities for vehicles being operated by students and staff. Student parking areas are located on the perimeter and throughout the Main Campus and Agriculture Campus; and en route, buses travel by the perimeter areas near Lake Loudoun Boulevard. Faculty and staff parking areas are located throughout the campus. See the UTK parking map.

Each person who operates a motor vehicle in connection with attendance or employment at the University must register that vehicle with the Traffic Section of the Security Department. 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 with the following exceptions:

1. Staff and students with current UTK motor vehicle registration stickers on their vehicles may park in any unreserved staff area (except those around residence halls) between the hours of 10 P.M. and 7 A.M., Monday through Friday, and 12 Noon Saturday to 7 A.M. Monday; however, general parking is permitted in staff areas around the residence halls from 5 P.M. to 3 A.M. After this time, vehicles without permits for these areas may be towed. This is in effect at all times.

2. Staff and students with current UTK parking permits may park in reserved staff areas around the academic buildings from 5 P.M. to 7 A.M.

3. Overnight parking is not permitted in the Student Aquatic Center parking area nor in Student Commuter parking areas.

4. At times, certain areas will be reserved for parking for special events, such as athletic events. Parking for these events will be by special parking permit.

Traffic and parking regulations are published each year, and copies of these regulations are available when students and staff register their vehicles. Additional copies may be obtained from the Traffic Section of the Security Department at 1115 UT Drive or at the Campus Information Center at the entrance to Circle Park.

Women’s Center

The Women’s Center is the coordinating unit for women’s programs on the Knoxville campus. It functions as a resource center for all University departments and organizations in the areas of women’s programs and activities. The Center’s primary objectives are the development of programs for women, the collection of media resources about women, and comprehensive information exchange service regarding women’s activities throughout the campus. The Women’s Center is located in 301 University Center.

Writing Laboratory

To aid students in regaining and improving their skills in writing, the University operates a Writing Laboratory. Students who have successfully completed the English Composition sequence may voluntarily visit the laboratory at any time for diagnostic help with their writing problems.

Fees and Expenses

University fees and other charges are determined by the Board of Trustees and are subject to change without notice. The general fees in effect at the time of publication are as follows:

| MAINTENANCE FEE | Undergraduate Students | Per Semester $605 |
|                 | Graduate Students      | Per Semester $755 |
|                 | Law Students           | Per Semester $846 |
|                 | Veterinary Students    | Per Semester $1281 |

All students both in and out-of-state are required to pay the established maintenance fee.

TUITION (additional for all out-of-state students) |

| Per Semester | $1302 |

Tuition is required of all students who are classified as non-residents for fee assessment purposes. NOTE: In lieu of the above charge for tuition and/or maintenance fee, part-time students may elect to pay fees computed by the semester hour credit (or audit) at the rates shown below, total charge not to exceed the regular maintenance fee plus tuition for in-state students or the maintenance fee plus tuition for out-of-state students.
pay their fees (or make satisfactory arrangements with the Bursar's Office) before the graduated late service fee begins. Such students will be charged the graduated late service fee beginning with the third regular business day following the last regular registration day. (Minimum charge $6 third day, $8 fourth day, $10 fifth day).

**Additional Late Service Fees**

All students who have not completed registration and paid their appropriate charges (or made satisfactory arrangements with the Bursar’s Office) within five regular business days after the last regular registration day will be charged an additional $10 late service fee (total $20).

After 10 regular business days students will be charged a second additional $10 late service fee (total $30). After 15 regular business days students will be charged a third additional $10 late service fee (total $40). After 20 regular business days students will be charged a fourth additional $10 late service fee (total $50), and may, at the discretion of the University, be withdrawn from school and assessed the appropriate fees as of the date dropped.

A $10 service fee is applicable to extension accounts and room and board charges which are not paid (or deferral arrangements made) within seven calendar days after the date payment was due.

**REINSTATEMENT FEE**

A student withdrawn (or subject to withdrawal) for failure to pay appropriate fees who is reinstated for the semester will be charged a $30 reinstatement service fee.

**LATE REGISTRATION FEE**

Students who do not advance register will be charged a $10 late registration fee.

**RETURNED CHECK SERVICE FEE POLICY**

In the event a check given to the University in payment of initial fees and charges fails to clear the bank, the late registration service fee in effect at the time the check is redeemed (minimum $18) but are not entitled to admission to general activities programs. Such students may elect to pay the $17 student health fee.

Knoxville campus students taking a course load of six, seven, or eight hours may elect to pay the full University Programs and Services Fee. Graduate and teaching assistants as well as fellowship students who may have waiver of fees (tuition and/or maintenance) must pay the appropriate University Programs and Services Fee. Activity cards are non-transferable and may not be duplicated. The activity fee is non-refundable.

**MUSIC FEE**

One half-hour lesson per week, per semester...$45
One hour lesson per week, per semester.....$90
Payable by eligible full-time students receiving individual instruction in music.

**GRADUATION FEE**

Bachelor's Degree.................$20
Master's, Law and Veterinary Medicine Degree $30
Doctoral Degree.................$70
Payable at the beginning of semester in which the candidate is to be graduated. This fee is non-refundable and is valid for only one year beginning with and including the semester it is paid.

**LATE PAYMENT FEE**

Graduated Late Service Fee

Upon receipt of a schedule (full, partial, or incomplete) a student is registered and is immediately responsible for payment of fees. Students who preregister for a semester must pay their fees (or make satisfactory arrangements with the Bursar’s Office) on the regular registration dates in order to avoid late payment service charges. Effective the first regular business day following the last regular registration day a graduated late service fee of $2 per day will be charged during the next ensuing five regular business days.

Students who do not preregister but register through the “secondary” registration procedures will be granted two additional days after the final regular registration day to

**Tuition and Fees**

Expenses can be prepaid over a period of eight months. Students and/or parents wishing to participate in the prepayment plan should contact the Bursar’s Office for details.

**Deferred Payment Policy**

Although fees, rent, and University expenses are due and payable at the beginning of each semester, a full-time student in good financial standing with The University may request a deferment of up to 30% of the total charges for a period of up to four weeks from the first day of registration. All financial aid monies must be applied to fees before a deferment will be considered. For more details, contact the Bursar’s Office.

Room and Board Payment Plan

Semester room and board charges may be paid in monthly installments. The first month’s rent plus a deposit of one month’s rent is due at registration. The remaining installments are due every four weeks. For more information and an application, contact the Bursar’s Office.

**DEFERRED PAYMENT SERVICE FEE**

$10 (See Tuition Payment Plans)

This fee is applicable when the payment of any part of a student’s account is deferred, including accounts which must be billed to outside agencies, organizations, and institutions.

It is the student’s responsibility to take the initiative to pay all University obligations promptly.

**LATE PAYMENT SERVICE FEE**

$5

This fee is applicable when a supplemental charge (tuition, room and board adjustments, etc.) is not paid within seven calendar days after the date it is incurred. Students are expected to take the initiative to pay all University obligations promptly.

The $10 deferred payment service fee will be added if it is necessary for the Bursar’s Office to send a notice regarding non-payment of the adjustment.

**APPLICATION FEE**

$15

Each first-time undergraduate, graduate, and College of Law applicant for admission to The University of Tennessee, Knoxville must be accompanied by a fee of $15 before it will be processed. This fee is not refundable and is not required for transfers within the University system.

**CLEP FEES**

$5 per credit hour for evaluation and proficiency credit.

**PROFICIENCY FEES**

Fees for proficiency examinations are $15 per credit hour for undergraduates and $22 per credit hour for graduates. See page 37 for other information on proficiency, and CLEP examinations.

**CO-OP REGISTRATION FEE**

$15

If credit is received, the appropriate semester hour rate will be added.

**AUDITOR’S FEE**

Fees for courses being audited are the same as those taken for credit. Auditors do not take the examination, receive credit, or participate in class discussions.

**REFUND OF FEES FOR WITHDRAWAL**

Once a schedule has been received by the student, withdrawal for the semester
must be by official notification to the Withdrawal Office, 212 Student Services Building, whether or not fees have been paid, class attended, or the schedule is incomplete. Failure to attend a class does not automatically withdraw or drop a student from college or class.

The effective date of withdrawal is the date of the Withdrawal Office notification or the withdrawal date, whichever is later. Withdrawal Office notification must be by official notification to the student. 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. The drop/add procedure must not be used to withdraw from school for the semester.

For a regular academic semester, withdrawal within 7 calendar days beginning with the first day following regular registration permits a 90 percent fee refund. Withdrawal between 8 and 14 calendar days following regular registration permits a 70 percent fee refund. Withdrawal between 15 and 21 calendar days following regular registration permits a 50 percent fee refund. Withdrawal between 22 and 28 calendar days following regular registration permits a 30 percent fee refund. Withdrawal within 5 days following regular registration permits a 10 percent refund. The fee refund policy does not apply to the off-campus Graduate Centers. Refunds, in accordance with the withdrawal refund policy, will be made after the drop deadline. Part-time students may pay fees computed at the appropriate semester-hour rate as indicated above. No charge is made for courses dropped during the first 5 calendar days following regular registration. A 45 percent charge is made for courses dropped between 6 and 21 calendar days following regular registration, and a 100 percent charge is made for courses dropped after 21 days. Students who drop courses are eligible for a refund of the charges computed at the semester-hour rate for the hours continued plus the percentage assessed for the hours dropped resulting in an amount less than that paid. A course on a student's schedule is deleted when a student withdraws, and the drop becomes effective, on the date that the change of registration form is processed on a drop/add terminal. Any refund due for dropped courses will be made after the final audit at the end of the semester.

Rental charges and adjustments will be determined by the Office of Residence Halls in accordance with the terms of the housing agreement or contract.

OTHER INFORMATION REGARDING FEES

All 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 are required to have a validated fee receipt to complete the registration procedure. This includes graduate and teaching assistants, staff, others whose fees are mercantile service charges, and students that are required to pay registration service fees are also applicable to such students.

No student is authorized to attend classes who has not obtained a class schedule from the Office of the Dean of Admissions and Records and a validated fee receipt from the Bursar's Office.

The University is authorized by statute to withhold diplomas, grades, transcripts, and registration privileges on any student until student debt is satisfied (other than Student Loan Fund notes which have not matured) owed to the University are satisfied.

Student Health Insurance. The University makes available, by contract with an insurance company, group health insurance expressly for students. The program is designed to supplement the care provided by the campus Student Health Service and provide a deposit of $50 each for in-patient hospital care is the student's own responsibility.

Information about the insurance is mailed by the company to the student's home and participation fees and/or enrollment in the plan (or alternative coverage) is mandatory for international students. Students may obtain applications from the Student Health Service or the Office of International Student Affairs. Access to international students, enrollment for insurance is not a part of the registration for the classes. NOTE: The family health insurance policy should be carefully reviewed since most family policies do not cover the dependent child after a given age, some as early as age nineteen.

Military Deposits. All students registering for Air Force ROTC courses are required to make a deposit of $50 each for uniforms Issued to them. All students who are members of the band are required to make a deposit of $50 each to cover damage to property issued to them. The unused balance of the deposit is refunded to the students after completion of the training.

Identification Card. ID cards, issued during registration or anytime during the year to all students, are prepared during registration of the first day a student enrolls in the University and are validated each term thereafter. These cards are required for many purposes such as use of library facilities, checking facilities in the UTK Bookstore, and admission to athletic, social, and cultural events. These cards are non-transferable and may not be duplicated. A current valid fee receipt is necessary to obtain a new or replacement ID card. IDENTIFICATION CARDS MUST BE CARRIED AT ALL TIMES FOR PURPOSES OF IDENTIFICATION. Lost or stolen cards should be replaced by contacting the Student ID Card Office, Room 344, University Center. There is a minimum charge for replacement or duplicate ID cards.

Arrangement for Banking while at UT

Banking arrangements may be made with Knoxville banks. Some Knoxville banks require a waiting period of 10 days before honoring withdrawals, if the deposit is a personal check. New students who wish to open a checking account on campus 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.

SUMMER TERM FEES AND EXPENSES

Fees and expenses for the summer term are the same as for the other terms during the academic year with the exception of the University Programs and Services Fee as noted above. Although the summer term is divided into terms of varying lengths, tuition and fees are assessed at the regular semester hour rate not to exceed the maximum charge for a complete regular semester. The refund policy covering withdrawals and dropped courses for the summer term is based on the length of the term for the course(s) dropped. No refund is applicable to term courses dropped later than 14 calendar days after the regular registration day for the course(s) involved.

ESTIMATE OF EXPENSES

The following estimates of the necessary expenses for an undergraduate student during the 1988-89 academic year are average. Actual expenses vary greatly according to the habits of economy or extravagance of the individual student. The room and meal estimates are averages based on accommodations and 20-meal board plan in University facilities. Estimates for equivalent accommodations and meals elsewhere will usually be somewhat higher.

Undergraduate Maintenance Fee
Programs and Services Fee
Room and Meals
Books, Supplies, Transportation, etc.
Total for Tennessee Residents
Add for Non-Resident Tuition
$1,210
$196
$2,850
$1,965
$5,921
$2,604
$8,525
$5,921

These figures give a fair idea of average expenses, exclusive of clothing, travel, and pocket money. Expenditures for extracurricular activities are not included in the above.

Student Financial Aid

The University of Tennessee, Knoxville offers a comprehensive program of financial aid for students who otherwise would not be able to attend. Through these federal, state, and University programs, an eligible student may receive one or more types of assistance. In order to receive Federal Financial Aid, students must be a U.S. citizen or classified as a permanent resident. All students must also comply with current Selective Service laws prior to receipt of aid. Additionally, all students receiving Federal Financial Aid are expected to maintain satisfactory academic progress toward a degree.

Financial need is defined as the difference between a family's resources and the total cost of attendance. If there is a deficit, the student is considered to be in need of financial assistance. UTK utilizes the needs analysis documents of both College Scholarship Service (CSS) and American College Testing (ACT). Through the use of CSS's Financial Aid Form (FAF) or ACT's Family Financial Statement (FFS), the Financial Aid Office determines the amount the parents and student can contribute toward educational expenses. For more detailed
information on the determination of need, please refer to the brochure entitled, "Financial Aid Information," in the Financial Aid Office.

UTK has three types of financial aid: scholarships and grants, loans, and part-time employment. These may be awarded individually or in combination to meet the needs of the student. For detailed information on application procedures for each aid program, please refer to the brochure, "Financial Aid Information."

**Deadlines for Applications**

Because a student's family resources can change significantly during an academic year, UTK requires each student to apply annually for renewal of financial aid. Students desiring assistance based upon financial need (some scholarships, grants, loans, and employment) must submit either the Financial Aid Form or the Family Financial Statement. Students desiring only scholarships based upon academic merit are not required to complete any application forms.

UTK is not able to meet the financial needs of all applicants. Priority in awarding will be given to those students with financial aid files completed by the following dates: February 1 for undergraduate entering freshmen.

**TRANSFER STUDENTS**

UTK Financial Aid applicants who have attended another college or university are required to have a Financial Aid Transcript sent to UTK whether financial aid was previously received or not. Forms and further information on this requirement are available in the Financial Aid Office.

**Scholarships and Grants**

Scholarships. The UTK scholarship program is made possible through funds provided by the University, outside foundations, estates, private businesses, civic groups, individuals, and alumni. The majority of these scholarships are coordinated by the Financial Aid Office. Most undergraduate scholarships for currently enrolled students are administered in the various schools and departments.

Most scholarships are awarded to students who demonstrate strong academic achievement and a proven need for assistance. There is, however, an academic merit scholarship program which makes awards on the basis of academic achievement only. To compete for merit scholarships only, a student must be admitted or currently enrolled by the priority deadline indicated above. An application form or financial statement is not necessary. Academic achievement for entering freshmen students is judged by the applicant's secondary school academic record and scores on the American College Test (ACT) or Standard Achievement Test (SAT). Academic achievement for currently enrolled and transfer students is judged by the applicant's collegiate cumulative grade point average.

All scholarships, including merit scholarships, are highly competitive; despite the generosity of University friends and alumni, there are not enough funds to provide scholarship aid to all qualified students. Annual stipends range from $100 to $2100. Most scholarships are renewed for one year, with the recipients continuing to compete for scholarships each year of enrollment.

** Pell Grant**

This is a federal grant program for undergraduate students displaying strong academic needs. The Pell Grant is an entitlement program, all undergraduate students applying for need-based financial assistance from the University must apply for this program. Other forms of financial aid will not be extended to a student until eligibility for the Pell Grant has been determined.

When the program is fully funded, maximum grants are $1,800 and not more than one-half the cost of education. The above regulations and provisions of the Pell Grant Program are correct as of December 1983 and are subject to change by federal legislative action.

**Supplemental Educational Opportunity Grants**

This is a program of direct grants available to undergraduate students with exceptional financial need. Grants must be matched by an equal amount of assistance from other sources, i.e., scholarships, loans, and/or earnings from University part-time employment. An SEOG may not be less than $200 or more than $2,000. The above regulations and provisions of the Supplemental Educational Opportunity Grant are correct as of December 1983 and are subject to change by federal legislative action.

**The Tennessee Student Assistance Award**

Award is designed to further educational opportunities to residents of the state who display a financial need for assistance. Awards cover one-half of the maintenance fees for Fall and Spring terms. Applicants must submit a copy of their Financial Aid Form/Family Financial Statement to the Tennessee Student Assistance Corporation.

More information may be obtained on this program by writing to the Tennessee Student Assistance Corporation, Capitol B-3 Towers, Suite 9, Nashville, Tennessee 37219.

**Student Loans**

**National Direct Student Loan.** Long-term loans are available to students who have a proven need for financial assistance. Loan repayment and interest payments on National Direct Student Loan (NDSL) are deferred as long as the individual remains in half-time attendance at an accredited institution of higher education in the United States. Repayment may be deferred for a period of three (3) years while the borrower is serving in the Armed Forces, Peace Corps, Vista, the U. S. Public Health Service, ACTION agency programs or as a full-time volunteer in a similar tax-exempt service organization, or while (s)he is temporarily, totally disabled or providing care for a spouse who is temporarily, totally disabled. Repayment may be deferred for two years while the borrower is serving an internship required for professional recognition. Interest is 5 percent per year on the unpaid balance. The maximum repayment period is 10 years with the current minimum monthly repayment of $30. If upon graduation the borrower becomes a full-time teacher in a public or non-profit school which is designated by the Secretary as having a high enrollment of low-income families or becomes a teacher of the handicapped, 15 percent of the total principal plus interest may be cancelled for the first and second year of teaching, 20 percent for the third and fourth years, and 30 percent for the fifth year. If after graduation the student becomes a staff member in a preschool program which is operated for a period comparable to a full school year, 15 percent of principal plus interest may be cancelled for each year of service. Cancellation for up to 50 percent of the loan may also be given at the rate of 12 1/2 percent of the total principal plus interest for each year of service in the Armed Forces in an area of hostility.

An undergraduate may borrow an annual maximum of $1,500 to an accumulated loan of $6,000. Graduate level students may borrow an annual maximum of $3,000 to an accumulated loan of $12,000 (including any amount borrowed, whichever is greater). The above regulations and provisions of the National Direct Student Loan Program are correct as of December 1982 and are subject to change by federal legislative action.

**The 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 $1,300 can be extended. One surety or cosigner 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 on the first day of the fourth month following graduation, withdrawal, or transfer from The University of Tennessee, Knoxville, or when the student ceases to carry at least one-half of the full-time academic workload. Minimum monthly installments will be $30 or 1/36th 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 of the University of Tennessee Student Loan Program are correct as of December 1982 and are subject to change by action of the Board of Trustees.

**Nursing Student Loan.** These loans are available to students who are enrolled or admitted as students in a course of study leading to a baccalaureate degree in nursing who demonstrate an exceptional financial need. The program provides a long-term loan at a 6 percent interest rate with repayment beginning nine months following termination of full-time study at an accredited school of nursing. Repayment may be deferred for a period of up to 5 years while the borrower is serving in the Armed Forces, Peace Corps, the National Oceanic and Atmospheric Administration Corps, or the U. S. Public Health Service. The maximum loan period is 10 years. If after graduation the student becomes a staff member in a preschool program which is operated for a period comparable to a full school year, 15 percent of principal plus interest may be cancelled for the first and second year of teaching, 20 percent for the third and fourth years, and 30 percent for the fifth year. If after graduation the student becomes a full-time teacher in a public or non-profit school which is designated by the Secretary as having a high enrollment of low-income families or becomes a teacher of the handicapped, 15 percent of the total principal plus interest may be cancelled for the first and second year of teaching, 20 percent for the third and fourth years, and 30 percent for the fifth year. If after graduation the student becomes a staff member in a preschool program which is operated for a period comparable to a full school year, 15 percent of principal plus interest may be cancelled for each year of service. Cancellation for up to 50 percent of the loan may also be given at the rate of 12 1/2 percent of the total principal plus interest for each year of service in the Armed Forces in an area of hostility.

The above regulations and provisions of the Nursing Student Loan Program are correct as of December 1982 and are subject to change by federal legislative action.

**Health Professions Student Loan.** This
loan is available to UTK students who are enrolled or admitted in a course of study leading to a degree of Doctor of Veterinary Medicine and who show exceptional financial need. The program provides a long-term, low-interest loan with repayment beginning 12 months following termination of full-time study at an accredited health professions school. Repayment may be deferred for a period up to 3 years while the borrower is serving the Armed Forces, Peace Corps, the National Oceanic and Atmospheric Administration Corps, or the U.S. Public Health Service or for the years required for a full-time course of study leading to advanced professional training. Interest is 9 percent per year on the unpaid balance; the maximum repayment is 10 years. However, a minimum monthly payment may be required. The maximum loan available to an individual borrower in an academic year is $2,500 plus the cost of tuition. The above regulations and provisions of the Health Professions Student Loans act as of December 1982 and are subject to change by federal legislative action.

**Guaranteed Student Loan.** This loan from banks, savings and loan associations, or credit unions through a state guaranteeing agency, may be able to assist with meeting educational expenses. To receive a loan, the student must be enrolled or admitted in at least a half-time course of study and be in good standing with the University. Applicants may be required to provide documentation indicating that they have financial need for these funds. Interest on such loans is paid by the federal government while the student is in attendance on at least a half-time basis. The student begins repayment of the amount borrowed plus 9 percent interest per year on the unpaid balance six months following termination of half-time enrollment or graduation. The maximum repayment period is 10 years and the minimum monthly payment is $50.

Repayment may be deferred for a period of up to 3 years while the borrower is serving in the Armed Forces, Peace Corps, Vista, the U.S. Public Health Service, Action agency, or credit unions through a state guaranteeing agency, may be able to assist with meeting educational expenses. To receive a loan, the student must be enrolled or admitted in at least a half-time course of study and be in good standing with the University. Applicants may be required to provide documentation indicating that they have financial need for these funds. Interest on such loans is paid by the federal government while the student is in attendance on at least a half-time basis. The student begins repayment of the amount borrowed plus 9 percent interest per year on the unpaid balance six months following termination of half-time enrollment or graduation. The maximum repayment period is 10 years and the minimum monthly payment is $50.

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Andy Holt Scholarship Fund  
Herbert Holt Scholarship Fund  
Martha & Andy Holt Milan High School Scholarship  
D. Frank Holtman Scholarship  
Home Federal of Johnson City Scholarship  
Hopper Trust Foundation Scholarship  
Horticulture Club Scholarships  
Eimer M. Housley Scholarship Fund  
Ina B. Hovis Scholarship Fund  
I. A. Howell & L. Beasley Scholarship  
Human Ecology General Scholarships  
Human Ecology 60th Anniversary Scholarship  
Jean Vandergriff Humphrey Humanitarian Fellowship  
John F. Humphrey Metal Fabricators Inc. Scholarship  
Joseph N. Hunter Memorial Law Scholarship  
Champe S. Hyatt Athletic Scholarship  
Arthur B. Hyman Law Scholarship Fund  
IBM Graduate Fellowship Award  
ICG Educational Fund, Inc. Scholarship  
INFO Fellowship  
Insurance Scholarship Fund  
International Student Emergency Fund  
IOP Excellence Endowment Fund  
Italian Studies Awards  
Jimmy Jackson Conservation Award  
Owen James Memorial Agriculture Scholarship  
Jordan Memorial Scholarship Fund  
Edith N. Jessop Scholarship Fund  
Richard Joel Scholarship Fund  
Johnson County Agriculture Scholarship  
Homer Johnson Scholarship Fund  
Robert L. Johnson Handicap Scholarship  
Sally Holder Johnson Memorial Scholarship  
Wander Wheeler Johnston Memorial Scholarship  
Dean & Clara Jones Athletic Scholarship  
Gippie Jones Scholarship Fund  
L. E. & Emma E. Jones Scholarship Fund  
Wilma H. Jordan MBA Fellowship  
Journalism Scholarship  
Edward E. Judy Scholarship  
KAMA Scholarship Fund  
Druzilla C. Kent Home Economics Education Scholarship  
Kathy Kirby Music Scholarship Endowment Fund  
Kaye Oil Company Scholarship Fund  
Robert A. Keenan Scholarship  
Keenen Chemistry Awards Fund  
Kefauver-Burke Memorial Football Scholarship  
Estes Kefauver Memorial Scholarship  
Robert S. Kelly & Thomas H. Edwards Scholarship Fund  
Clyde W. Key Memorial Fund  
Gordon Keyes Agriculture Memorial Fund  
Jack Kiger Scholarship in Accounting  
Kimley-Horn Scholarship in Civil Engineering  
John L. & Elizabeth V. Kind Scholarship Fund  
E. Ward King Scholarship in Transportation  
James J. King Scholarship  
Philip C. Klipsch Memorial Law Fund  
Knickrocker Poetry Prize Fund  
Knoxville Auxiliary Tennessee Bar Association Scholarship  
Knoxville Auxiliary Tennessee Bar Law Review Award  
Knoxville Garden Club Scholarship  
Knoxville News-Sentinel Scholarship in Advertising  
Knoxville News-Sentinel Scholarship in Journalism  
Knoxville Orthopedic Clinic Scholarship  
Knoxville Watercolor Society Scholarship  
Kodak Graduate Scholarship Fund  
Stanley Kogut Memorial Scholarship Fund  
Louis & Lilian Kotler Scholarship Fund  
Wills F. Kraemer Scholarship Fund  
Kranertritch Truist Forestry Ind Management Scholarship  
Clarence C. Kuo Memorial Fellowship  
Guy L. Lachine Award Fund  
John Lain Price Award  
Mr. & Mrs. John M. Lambert Scholarship Fund  
Fred R. Langley Athletic Department Scholarship  
Law College Scholarship Fund  
College of Law Advocates Award  
Fred R. Lawson Family Endowment Fund  
Lucille & Herbert Lee Mathematics Scholarship  
Mcafee Lee Jr. Memorial Scholarship Fund  
W. O. Leffell Scholarship Fund  
Levi Strauss Foundation Graduate Fellowship  
Abraham Levy Scholarship Fund  
Thomas S. Lewis, Jr. Scholarship  
Frederick Lewison Scholarship Fund  
Lincoln City Alumni Agriculture Scholarship Fund  
Lincoln City Farmers Co-op Scholarship Fund  
Joe P. Little Scholarship Fund  
Rosalie Lockenbach Scholarship Fund  
Col. Samuel H. Lockett Geological Engineering Scholarship  
Col. Samuel H. Lockett Memorial Scholarship  
John R. & Sarah N. Long Scholarship Endowment  
J. H. Loving Family Scholarship  
Harold L. Luper Endowment Fund  
R. N. Lyon Scholarship Fund  
Macon County Farm Bureau Scholarship  
Madden Memorial Prize Stock Judging  
Madden Memorial Award Animal Husbandry  
Mr. & Mrs. James Maness Scholarship  
Magnavox-Mary Costa Scholarship in Voice  
Frank Manning Memorial Scholarship Fund  
Tom Marlow Scholarship in Agriculture  
Dr. James D. Marsh Memorial Scholarship  
Marsteller Foundation Fund  
David & Beverly Martin Scholarship  
Martin-Martindale Scholarship Fund  
Martin-Martiello Scholarships  
Martindale Athletic Scholarship  
F. Martin Martinson Memorial Scholarship Fund  
Maryville Daily Times Scholarship in Advertising  
Maryville Daily Times Scholarship in Journalism  
Massey Contractor Association of Chattanooga Scholarship  
Mason Contractor Association of Chattanooga Scholarship  
Mason Contractor Association of Tennessee Scholarship in Architecture  
Mathematics Graduate Student Teaching Award  
Mrs. J. Harvey Mathes DAII Award  
Maury County Farm Bureau Agriculture Scholarship  
MBA Student Award  
Edgar Wyman McClain Scholarship Fund  
Raymond & Sarah McNally Foundation  
Dorothy Ryan McCarthy Scholarship Fund  
A. E. McCrady Agricultural Management Scholarship  
Charles J. McClung Prize  
W. K. McClure Fund World Affairs  
S. Lloyd McRoberts Scholarship Fund  
McDonald's Restaurants Scholarship  
D. Dwight McDonald Memorial Scholarship  
McDowell Athletic Scholarship Fund  
Gene McEvoy Athletic Scholarship Fund  
Henry G. McGinley Merit Scholarship  
Robert L. McKnight Memorial Law Scholarship  
Helen Ross McNabb Mental Health Center  
Lisa McReynolds Memorial Scholarship Award  
Rhoda O. Mears Memorial Scholarship Fund  
E. J. Meeman International Com Fellowship  
Meigs County Agricultural Extension Scholarship  
A. D. Melvoin-Rhenium Agricultural Scholarship Fund  
Barnadine Meyer Professional Development Award  
Michalopoulos Memorial Scholarship Fund  
Mid-East Tennessee Social Health Care Work  
Mike Milburn Memorial Scholarship - TVA & J. E. Mill & Sons Scholarship Fund  
John M. & Grace G. Millen Fellowship  
Carl W. Miller Memorial Student Assistance Fund  
Charles Miller Clinical Achievement Scholarship  
John W. Minchin Scholarship Endowment Fund  
Minority Students Support Fund  
Music Scholarship Program  
T. A. Mitchell Scholarship Fund  
Susan L. Moeller Memorial Scholarship Fund  
Phillips W. Moffitt Scholarship Fund  
Chester A. Molley Memorial Scholarship Fund  
Monsanto Fellowship in Botany  
Billy J. & Sylvia F. Moore Scholarship Fund  
Endowment in Child and Family Studies  
Fulton B. Moore III Memorial Scholarship Fund  
George C. Moore Co. Scholarship Fund  
Grace Moore Scholarship Music  
Kyle Campbell Moore Scholarship  
Richard L. Moore Jr. Graduate Fellowship  
McCormack Scholarship  
Philip Morris USA Scholarship  
Philip Morris Ag Ed Scholarship  
Mabel Miller Morelock Scholarship Fund  
Morton, Lewis, King and Krieg Scholarship Endowment Fund  
A. H. Mosher Memorial Scholarship in Classics  
Flora B. & Besse Abigail Moss Scholarship Fund  
Flora B. & Besse A. Moss Scholarship Fund  
John D. Moss Alpha Gamma Rho Scholarship  
W. F. & Golda Moss Agriculture Scholarship Fund  
Mrs. Yuen Leung Mc-Tak Memorial Scholarship  
C & P Mountcastle, Jr. Band Scholarship  
P & C Mountcastle Athletic Scholarship Fund  
R. Mountcastle Memorial Law Scholarship Fund  
Mr. & Mrs. Herman Morris Mechanical Engineering Scholarship Endowment Fund  
MSW Scholarship Fund  
Mullins Alpha Gamma Rho Scholarship  
MCA-NICARs in Engineering  
Jesse B. Naive Scholarship Fund  
NAP Marketing Scholarship Fund  
NAP Undergraduate Scholarship  
Nashville Banner Scholarship  
National Association of Women in Construction Scholarship Fund  
Thomas P. Nelson, III Memorial Scholarship  
Len B. & Nancy Lois Neubert Scholarship  
Jade and Dorothy Newman Scholarship  
General Bob Neyland Fund  
Robert R. Neyland Academic Scholarship  
J. H. Nicholson Memorial Scholarship Fund  
Harry Nides Scholarship Fund  
A. H. Nielsen College Scholars Scholarship  
NFBA Education Foundation Scholarship  
Mr. & Mrs. Seward Norris Athletic Scholarship  
William B. Nowling Athletic Fund  
Mickey O'Brien Scholarship  
John Darr Ogle Scholarship  
Ornamental Horticulture and Landscape Design Scholarship  
Evelyn & Bergein Overholt Scholarship  
Kathy Pako Memorial Scholarship Award  
Mr. & Mrs. Eddie Parker Scholarship  
Parkey Memorial Scholarship Fund  
Pella Traveling Scholarship Fund
Honors and Awards

Dean's List.

Public announcement of students passing a semester’s work “Summa cum laude” (3.80 through 4.00), “Magna cum laude” (3.65 through 3.79), “Cum laude” (3.50 through 3.64). To be eligible, a student must complete at least 12 hours, not counting work taken on a satisfactory/no credit basis.

The honors and awards available to students at UTK 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, Knoxville.

Victor M. Davis Awards. Granted each year to juniors who demonstrate exceptional campus leadership.

College of Agriculture

The American Society of Agricultural Engineers each year selects an outstanding agricultural engineering student for the ASAE Student Honor Award. Based on scholarship, activities, and community contributions, the award consists of a key and certificate.

The American Society of Agronomy makes available to UTK an annual scholarship for an outstanding senior in the Department of Plant and Soil Science who has a superior academic record and displays evidence of high potential in this field.

The American Society of Animal Science awards scholarships to undergraduate students who have demonstrated academic excellence in this field.

The Block and Bridle Club recognizes students in Animal Science who are successful in their academic program and meets the requirements of the University of Tennessee’s Block and Bridle Club. The awards are based on leadership and scholarship in the chosen field.

Jesse David Cliett Memorial Scholarship.

The Danforth Foundation Inc. provides a fellowship to support two weeks of leadership training at Camp Miniswanka on the shores of Lake Michigan for an outstanding agricultural student following the freshman year.

M. Jacob Animal Husbandry Award. Given by East Tennessee Packing Company, Kentucky-Tennessee Society of American Foresters Scholarship. Awarded annually to the junior forestry student with the highest scholastic average. The award is in cash and a framed certificate.

J. B. Madden Memorial Foundation Fund. Established by J. B. Madden family, for prizes in poultry judging competition.

Student-Faculty Council Awards. Each year the College of Agriculture Student-Faculty Council presents plaques to four seniors, three juniors, and two sophomore students in the college judged to be outstanding. Selection is based on scholarship, character, and demonstrated leadership ability. Plaques are also presented to the students in each class with the highest scholastic averages.

Tennessee Poultry Improvement Board Awards. Awards to students competing in poultry and poultry products judging.

School of Architecture

General Shale Products Corporation Fellowship Fund. Scholarships awarded to scholastically outstanding fifth year students.

Goodstein, Hahn, Shorr & Associates Draftsmanship Award. Awarded annually to the student excelling in drafting.

Malcolm Rice Achievement Award. Awarded annually to the third-year student showing most improvement with design studio.

Mason Contractors Association of Chattanooga Scholarship. Awarded annually to a fifth-year architecture student from Hamilton County, Tennessee, or if none exists, from a bordering county in the State of Tennessee.

Ray and Mary Evelyn Andrus Award. Awarded to outstanding student in design.

College of Business Administration

Beta Gamma Sigma Awards. Plaques and awards given to the freshman and sophomore students with highest grade point averages by this national business honorary society.

Delta Sigma Pi Scholarship Key. Given by international fraternity to male senior with highest four-year scholastic average.

Liston M. Fox Memorial Undergraduate Scholarship. Awarded annually to the rising sophomore who is being admitted to a major in the College of Business Administration.

John Fred Holly, Jr. A memorial scholarship endowed by parents.

Knoxville Sales Executive Club Award. Plaque plus dinner in student’s honor, to outstanding senior marketing major.

John M. and Suzanne W. Larsen Phi Kappa Phi Scholarship Award. Awarded to the College of Business Administration junior initiates with the highest grade point averages.

John M. and Suzanne W. Larsen Beta Gamma Sigma Outstanding Male and Female Awards. Awarded to the male and female College of Business Administration junior initiates with the highest grade point averages.

James R. and Dorothy Newman Transportation Scholarship Fund. Awarded on an annual basis to a student chosen by the scholarship committee for the department.

Fulton Beverly Moore, III Memorial Real Estate Scholarship. A memorial scholarship fund endowed by the parents.

Pi Omega Pi Scholarship Key. Key to senior business education major with highest 7 semester scholastic average.

Shell Companies Foundation Scholarship/Transportation and Logistics.

Smoky Mountain Chapter of the Bank Administration Institute. Cash awarded to a junior or senior who is a resident of Tennessee and majoring in banking.

Tennessee Baptistman Scholarship in Office Administration. Awarded to undergraduate students only. Recipients shall be selected on the basis of academic excellence.

William Way, Jr. Memorial Award. Gold medal or key to senior transportation major with highest academic average.

Zeta Lambda Chapter of Alpha Kappa Psi. Professional business fraternity, awards annually the Alpha Kappa Psi Scholarship Award to the male student pursuing a degree in business who has attained the highest scholastic average for three years of collegiate work in this University.

Communications

Advertising Club of St. Louis College Award Citation. Given to outstanding man and woman graduating in Department of Advertising.

Alcoa Foundation Scholarship. Given to an outstanding undergraduate planning a career in public relations.

Alcoa Foundation Minority Scholarship. Given to an outstanding undergraduate minority student in the College.

Karl and Madira Bickel Scholarships. Freshman, upperclass and doctoral scholarships. Open to all students showing academic performance (3.00 or B or better), professional promise, and need.

Edward J. Meeman International Communications Fellowships. To two outstanding graduate students from other countries.

Greater Knoxville Advertising Club Scholarship Fund. Awarded to an undergraduate student in advertising.

Greatier Knoxville Ad Club Award. Given to outstanding graduate in Department of Advertising.

Maryville-Alcoa Daily Times Scholarship in Advertising. Awarded to juniors or seniors majoring in a communications field.

Maryville-Alcoa Daily Times Scholarship in Journalism. Awarded to juniors or seniors majoring in journalism.

Hoyt B. Wooten Award. Given by family, Plaque and basic broadcasting library awarded to the outstanding senior in recognition of scholarship and broadcasting achievement.

Pi Omega Pi Scholarship Key. Key to senior business education major with highest 7 semester scholastic average.
**College of Education**

Knoxville Branch of American Association of University Women Award. Membership to senior woman selected on basis of scholarship and leadership qualities.

New Repertory Dance Company Scholarship Fund. Awarded to dance majors.

Pi Lambda Theta Fraternity Scholarship Key. Key to junior woman showing most outstanding potential as a future professional leader in education, attaining high scholastic average through junior year.

**College of Engineering**

American Association of Cost Engineers Scholarship

American Chemical Society. East Tennessee Section of American Chemical Society offers an award each year to an outstanding senior in chemical engineering.

American Institute of Aeronautics and Astronautics. Award of one-year membership to a branch member whose performance scholastically and in branch activities has been outstanding.

American Institute of Chemical Engineers Professional Achievement Award. Given to chemical engineering senior who has contributed most to student chapter. Name engraved on permanent plaque. Also certificate.

American Institute of Chemical Engineers Scholarly Award. Given to chemical engineering junior who attained highest scholastic average in first two years. Certificate and handbook.

American Society of Civil Engineers Scholarship.

American Society of Mechanical Engineers Scholarship. An annual cash award to a sophomore or junior in civil engineering based on scholarship and activity in the ASCE student chapter.

The Arthur Brownlow Wood Memorial Scholarship Fund. A cash award made annually to one or more outstanding students in engineering.

Association of Textile Industrial Engineers Award. A cash one-year award, based on need, given by the Department of Industrial Engineering to a senior.

Billy J. and Sylvia F. Moore Scholarship Fund. A cash award given to one or more upperclass students majoring in electrical engineering, preferably seniors who have participated in the engineering coop program. Based on both academic achievement and need.

East Tennessee Chapter of American Institute of Industrial Engineers Award. Award of handbook and plaque to the outstanding senior industrial engineering major.

Electrical Engineering Leadership Award. One or more cash awards may be made annually to juniors or seniors in electrical engineering who have exhibited outstanding leadership ability and have maintained a B average or above.

H. L. Weissberg Memorial Award. An annual award given by the department to an outstanding senior major in engineering science. Letter of recognition, plaque.

J. Mac Tucker Outstanding Senior Award. Recognition by the Student Section of the American Society of Mechanical Engineers of the outstanding senior in the Department of Mechanical and Aerospace Engineering. Award is based on leadership, scholarship, and service. Name on plaque.

Jere B. Ford Outstanding Scholar Award. A cash award presented annually by the Tennessee Roadbuilders Association to an outstanding civil engineering student.

Joel F. Bailey Award. Award by Tennessee Tau Eta Chapter of Pi Tau Sigma to the student in mechanical and aerospace engineering graduating with the highest scholastic record.

Kilmley-Horn Scholarship in Civil Engineering.

Proctor & Gamble Minority Chemical Engineering Scholarship Fund. Awards can be made to minority chemical engineering students who are either United States citizens or USA permanent-visa holders.

John Mittemeyer Endowment Fund. Cash award in recognition of scholastic achievement and evidence of high potential as a future civil engineer, to one or more upperclass civil engineering students as selected by the civil engineering faculty.

L. Raymon Shobe Excellence in Engineering Mechanics Award. Given annually to student with outstanding record of undergraduate study in engineering mechanics at UTK. Letter, plaque.

Tau Beta Pi Outstanding Senior Award. Given by the Tennessee Alpha Chapter. Recognition of a senior in engineering who displays outstanding service, leadership, and scholarship. Name on plaque.

Texas Philanthropic Foundation University of Tennessee Book and Supply Store Award. An electronic calculator awarded each term. Chosen by departmental committees in rotation. Given to an upperclass student on the basis of need and demonstrated academic performance.

**College of Human Ecology**

Akima Club Interior Design Scholarship. Awarded to student enrolled in interior design, in-state tuition.


Dorothea H. Barton Scholarship. Awarded to an outstanding junior. Variable.

Jack Daniel Distillery Scholarship. Awarded to student enrolled in the tourism, food and lodging administration program.

Frank and Ruth Liggert DeFriese Scholarship. Awarded to a home economics student biannually.

Donelson Home Economists General Foods Fellowship. Awarded to home economics doctoral student.

Irene Hill Greene and Condon L. Greene Memorial Scholarship. Awarded to student from Anderson County.

Jessie W. Harris Scholarship. Awarded to sophomore, junior, and senior with highest scholastic records.

Holiday Inns, Inc. Tourism, Food and Lodging Scholarship Fund. Awarded to 10 students majoring in the four year B.S. program. Variable.

Hawkins County Farm Bureau. Awarded to a freshman from Hawkins County.

Howard Johnson's Scholarship. Awarded to student enrolled in the tourism, food and lodging administration program.

Tennessee Howard Johnson's Scholarship. Awarded to student enrolled in the tourism, food and lodging program.

Greater Knoxville Hotel-Motel Association Student Scholarship. Awarded to student enrolled in the tourism, food and lodging administration program.

Lewisohn Scholarships. Endowed by Frederick Lewisohn. Ten, variable.

F. Dwight McDonald Scholarship. Awarded to an entering freshman.

Memphis Hotel-Motel Association Scholarship. Awarded to student enrolled in the tourism, food and lodging administration program.

Nashville Hotel-Motel Association Scholarship. Awarded to student enrolled in the tourism, food and lodging administration program.

Nellie Crooke Award. Award of reference books and journals to an outstanding junior.

National Institute of the Foodservice Industry. Awarded to student enrolled in the tourism, food and lodging administration program.

Omnicron Nu Sophomore Scholarship Award. Awarded by the home economics honor fraternity.

Roane County Council of Home Demonstration Clubs. Awarded to freshman from Roane County.

Schenley Industries Scholarship. Awarded to student enrolled in the tourism, food and lodging administration program.

Scruggs Restaurant Equipment, Inc. Scholarship. Awarded to student enrolled in the tourism, food and lodging administration program.

Jessie W. Harris Scholarship. Awarded to an outstanding junior. Variable.

Standard Textile Scholarship. Awarded to student enrolled in the tourism, food and lodging administration program.

Statler Foundation Scholarship. Awarded to hospitality students throughout the United States.

Stouffer Foods Corp. Scholarship.
Tennessee Chapter of Future Homemakers of America
Tennessee Dietetic Association
Awards to upperclass student enrolled in dietetics program.
Tennessee Rehabilitation Corporation Scholarships. Ten.
Tennessee Restaurant Association Scholarship. Awarded to student enrolled in tourism, food and lodging administration program.
University of Tennessee General Scholarships. Variable.
White Stores Scholarship. Awarded to an entering freshman.

College of Liberal Arts
John M. Allen Mathematics Prize. Medal, to outstanding freshman mathematics student. Prize is determined by competitive examination.
Bain-Swiggert Poetry Prize. For excellence in writing conventional forms of English poetry.
Phil Sherman Bennett Prize. Established by the late Honorable William J. Bryan, cash award to student submitting best essay discussing principles of free government.
Bilogia Award. Plaque, to the outstanding biology senior.
Eleanora R. Burke Award. For excellence in expository writing. Founded in honor of the daughter of a former head of the English department.
Captain Robert A. Burke Award. For excellence in English prose fiction. Founded in honor of the son of a former head of the English department.
Chi Omega Prize. Given by Pi Chapter of sorority to the senior woman majoring in the social sciences, who has the greatest proficiency in the subject.
Dorothea and Edgar D. Eaves Outstanding Teaching Award and Summer Fellowship Awards. Awarded each year to the G. T. A. in mathematics with previous academic performance for transfer students.
Evelyn Bennett Scholarship. Awarded to upperclass student enrolled in upper-division courses in Italian.
Judy L. Murphy Scholarship. For excellence in composition and declamation. Subjects are set by the Department of Speech Communication.
Mrs. J. Harvey Mathes Tennessee D. A. R. American History Scholarship. Given to a woman student selected by the Department of History.
A. D. Melaven-Rhenium Scholarships. For students in the College of Engineering.
Bain-Swiggert Poetry Prize. For excellence in writing English poetry. Founded by the late Stephen L. Mooney in honor of a former head of the English Department.
Senior of Latin Foundation Prize. Established by friends of the classics. Cash award, to member of senior Latin class showing greatest proficiency in the course.
Charles T. McClung Prizes. First and second cash prizes to junior or senior for excellence in composition and declamation. Subjects are set by the Department of Speech Communication.
Dora Martinez Scholarship. Given to an outstanding student in his field and the University of Tennessee College of Nursing.

Honorary and Professional Societies
A number of honorary and professional societies have chapters at the University of Tennessee, Knoxville. Membership in these organizations is generally based on the initiate's good character, professed interest in the chosen field, leadership characteristics, and high scholastic record.

Those honorary societies, both national and local, with chapters at UTK are:
Alpha Chi Sigma, for chemical engineering and chemistry students. Student must have a grade point average of 2.5 in chemistry and/or chemical engineering combined and 2.5 in all academic work and must have been enrolled in this school for at least one semester. Members are elected by others in the respective group.
Alpha Epsilon Delta, for students preparing for study in medicine. Students with minimum 3.0 average in all courses may be elected at the end of their first year in the University. They may be initiated in the next year if an appropriate overall average has been maintained.
Alpha Mu Chapter, Eta Sigma Gamma. Students with a major or minor in health and safety are eligible for membership. Undergraduate candidates for membership must have a 3.0 cumulative average, and each graduate candidate must have graduated with a 3.0 cumulative average or must have a 3.4 graduating department average.
Alpha Phi Omega. Any undergraduate who is a former Scout is eligible for membership. A pledge must have completed one semester or academic work with and average grade of 2.0 before being eligible for initiation.
Alpha Pi Mu, for industrial engineering students. Prospective members are chosen from the upper one-third of the senior class and upper two-fifths of the junior class. A minimum 2.5 average is required.
Alpha Zeta, agricultural fraternity for juniors and seniors. Prospective members must be among the upper two-fifths of their respective classes and must show leadership ability.
Beta Alpha Psi, for accounting students. Any undergraduate or graduate accounting major registered in advanced accounting subjects and having a minimum B-minus average in all subjects, is eligible for active membership.
Beta Gamma Sigma, national business honorary society for undergraduate students in a major in a College of Business Administration curriculum. Additional criteria pertain to number of business administration credit hours taken and number of transfer hours/previous academic performance for transfer students. MBA students must be in the top 20 percent of graduating class, and DBA students must complete all degree requirements with a minimum GPA of 3.50.
Chi Epsilon, for civil engineering students. Junior and senior civil engineering majors ranking in the highest one-third of their respective class are eligible for membership.
Delta Nu Alpha, for transportation students. Prospective members must have completed the basic transportation courses and have a minimum 2.3 average.
Delta Pi Epsilon, for business education graduate students. Prospective members...
must have a minimum 3.4 average for nine hours of graduate work in business education. Candidates are required to show evidence of work done before initiation by presenting a talk, research abstract, or written paper to the group.

Delta Sigma Pi, professional business fraternity for students enrolled in the College of Business. A minimum of 30 semester hours of University credit with a scholastic average of at least 2.5 is required for initiation.

Delta Sigma Phi-Theo Tau Kappa Alpha honor society for honor seniors in science students who have participated at a high level of excellence in intercollegiate forensics of original speaking activities and who rank in the upper 35 percent of their college class.

Delta Theta Phi, for law students.

Eta Kappa Nu, for electrical engineering students. Members may be selected from juniors ranking in the upper one-fourth, or seniors ranking in the upper one-third of their respective electrical engineering class.

Eta Sigma Phi, honor society for students in classical languages. Membership is open to students who have attained at least a 3.0 average in Latin or Greek courses.

Gamma Beta Phi, honor society for honor, educational-service organization open to students in all fields of study. Prospective members, usually inducte in the fall and spring, must have completed 15 hours of study, must rank in the upper 20 percent of their respective college, and must a minimum of 3.2 overall average.

Gamma Sigma Delta, agricultural honorary society for graduating seniors, graduate students, faculty, and agricultural alumni. Seniors selected must be in the upper one-fourth of their graduating class in the College of Agriculture and must have attained at least a 3.5 average in at least 16 hours toward the advanced degree. They must have shown promise or superior ability in carrying on advanced study and/or research directly concerned with agriculture and of merit, or showing noteworthy contributions to their respective fields.

Gamma Theta Upsilon, honor society for students majoring in geography.

Golden Key National Honor Society. National academic honor society for students in all fields of study. Induction is held in the fall or spring for invited students who have achieved Junior or Senior standing and who have maintained a cumulative grade point average of 3.4.

Iota Lambda Sigma, for industrial education students. No one may be initiated until he has acquired a minimum of 9 hours of industrial education courses with at least a 3.0. Kappa Delta Pi, honor society for professionals and students in education. A minimum 3.5 grade point average is required. The society recognizes outstanding contributions to education. Membership is by invitation.

Mortar Board, for senior students. Members are elected from students with a minimum 3.0 average for three years of University studies.

National Slavic Honor Society (Dobro Slovo), for students in their third year of study of Slavic literature, culture, or related subjects with a minimum average grade of 85 percent or its letter or point equivalent in the subject area and an 80 percent overall average. Members are chosen from the undergraduate and graduate students and faculty of the institution.

Omega Delta Epsilon, honor society in economics for students and faculty. Student members must have a minimum 3.0 overall average.

Omega Delta Kappa, for junior and senior students. Omicron Nu, for home economics students. Members are elected from the upper one-fourth of the senior class and upper one-fifth of the junior class, not to exceed 20 percent of any given class.

Order of the Coif, for law students.

Phi Alpha Delta, for law students.

Phi Beta Lambda, professional fraternity for students enrolled in the College of Business Administration. Prospective members must be enrolled in at least three hours in the college with a minimum of 2.2 overall average.

Phi Beta Kappa, the oldest national academic honorary society, for liberal arts departments of education. Candidates for either the Bachelor of Arts or the Bachelor of Science in Chemistry degree. Grade point average varies with number of hours completed; minimum is 3.50. At least 60 hours must have been earned at UT. Students must have completed the second college year (or equivalent) in a foreign language. Election takes place in October and April. For detailed statement of requirements, inquire in the Academic Affairs Office. 218 Ayres Hall.

Chi Theta, professional fraternity for women interested in a business career. Any female student enrolled in the College of Business Administration or specializing in business and/or economics, and who is at least a second semester freshman and has the all-student average is eligible for membership.

Chi Delta Kappa, honorary professional fraternity in education connected with approved colleges and universities of graduate rank maintaining schools, colleges, or departments of education. Prospective members must be seniors ranking among the upper 20 percent of their respective class.

Chi Lambda Kappa, broadest of the national professional association in education. Open to juniors and seniors with a minimum grade point average of 3.5 the first year of membership or 3.7 second year with full academic load. All candidates must rank in upper 20 percent of their respective class.

Chi Kappa Pi, broadest of the national honor societies, recognizing all fields of learning. Must be a senior or junior with a grade point average of at least 3.5. Membership is by invitation.

Chi Sigma Kappa, for nursing students. Members are elected solely on the basis of scholarship.

Chi Tau Sigma, for mechanical engineering students. Prospective junior members must rank in the upper one-fourth, and senior

members in the upper one-third of their respective mechanical engineering class.

Scabbard and Blade, military science honor society for upperclass students and faculty. Selection is based on scholarship, activities, character, and service.

Sigma Alpha Iota, professional music fraternity for women interested in music. A 2.5 overall average is required.

Sigma Delta Chi, professional journalism society. Active membership shall be limited to journalism and broadcasting majors having at least a 2.3 overall grade average and having completed at least 30 hours.

Sigma Delta Pi, for Spanish students. Prospective members must have a minimum 2.75 average in all University work and a minimum 3.2 average in Spanish and must have completed a junior year in Spanish literature or be registered in the last term of such a course.

Sigma Gamma Epsilon, honor society for students in earth sciences. Membership is by invitation, based on scholarship and interest.

Sigma Pi Sigma, physics honor society for upperclass and graduate students, faculty members, and qualified alumni.

Sigma Theta Tau, national nursing honor society for those students who have demonstrated outstanding scholastic achievement, professional leadership potential, and/or marked achievement in the field of nursing. Undergraduate students have completed at least two semesters of the upper-division curriculum with a 3.0 average are eligible for membership, and graduate students who have completed one-half the master’s program with a 3.25 average.

Sigma Xi, scientific research society for advanced graduate students and faculty. Prospective members must have shown noteworthy achievement as original investigators in the pure or applied science fields. Exceptionally brilliant and promising undergraduate and graduate students may be elected to associate membership.

Tau Beta Pi, national honor society for engineering students. The top one-eighth of the junior engineering class and the top one-fifth of the senior engineering class, scholastically ranked, may be elected. Elections are held in the semesters. The organization conducts programs and projects of benefit to students and the University.

Torchbearers epitomize the finest qualities of The University of Tennessee student. Each year the seniors who have contributed the most to the University during their college careers are selected as Torchbearers. Selection is based on scholarship, activities, character, and service.

Xi Sigma Pi, forestry honor society for upperclass and graduate students, faculty members, and persons who have attained a national reputation in forestry. Students must have completed 66 hours of credit, including 9 hours in professional forestry courses. When practical, initiates are selected during the junior year to provide the greatest degree of benefits of active membership.
Tennessee, Knoxville 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 UTK 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 UTK 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 many students whose past academic records are average 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. UTK encourages persons whose academic preparation for the programs in the college and who can be adequately accommodated by the available staff, space, and facilities.

These matching processes occur continuously in most colleges and schools. A student may be admitted to the University, select a particular college, and be accepted into that college all at the same time when all conditions are favorable.

Many students are undecided about a career. With careful planning, a student can explore alternatives and accomplish some of these objectives with little, if any, loss of time.

All qualified students are initially admitted to The University of Tennessee, Knoxville. Admission to UTK entitles one to take many college courses taken while still in high school; and

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

Admission as a University student does not guarantee acceptance by any particular school or college, since each degree-granting unit defines its own standards and prerequisites as presented subsequently. A student must associate with a college or school in order to receive a degree. Since there is no general university degree, a student is expected to complete the association process at a time well in advance of the completion of degree requirements. The limit to the amount of time students may remain as University Students is included in the section on general regulations. Many upper division courses are available only to students who have been accepted into a particular major. Non-majors may not be allowed to take such courses.

A University student should contact the college with which association is desired to determine the latest time (in terms of coursework required for the degree) at which association is possible.

REQUIREMENTS FOR ADMISSION AS A UTK UNDERGRADUATE STUDENT

Anyone interested in attending UTK as an undergraduate student should contact the Admissions Office, 320 Student Services Building, for application forms and informational booklets. Return of completed forms 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 by personnel in the Admissions Office, and the applicant is notified of the decision by mail.

Freshman Admission

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

1. the student has graduated from high school; and
2. the total of attempted college-level credit work at an accredited institution after graduation from high school has been less than 12 hours, excluding summer school and college courses taken while still in high school.
Students are encouraged to apply as early as possible. Easy admission contributes to better orientation, course planning, class scheduling and financial aid consideration. High school students planning to apply as freshmen should submit applications as soon as possible after completion of the junior year. Applications for admission are available from many secondary school guidance/counseling offices and from the Office of Admissions, UTK, 320 Student Services, Knoxville, TN 37996-0230.

The University seeks to admit those students who can provide evidence of the intellectual performance and potential that will permit them to benefit from UTK programs. In 1986 the freshman class, had an average ACT score of 21.4 or an average SAT of approximately 1000 and a high school rank of 3.5 or better.

Currently, a prospective student must have completed at least three (3) units of high school English. Beginning Fall 1989, the following high school courses are required:

- four (4) units of English;
- three (3) units of math including two (2) units of algebra and one (1) unit of advanced math, trigonometry, geometry, or calculus (The College of Engineering requires 3 1/2 years of math including trigonometry and geometry as prerequisites for all courses); (two (2) units of natural sciences including at least one (1) unit of biology, chemistry, or physics;
- one (1) unit of American history;
- one (1) unit of European or world history or world geography;
- two (2) units of a single foreign language.

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

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

1. Have a final transcript of all high school credits sent to the Admissions Office. If any courses have been taken for college credit, the institution(s) granting credit must be contacted and asked to send an official transcript to the UTK Admissions Office as a part of the admission file. Students who have achieved a high school diploma through the General Education Development (GED) Test also must have the GED scores sent. Older than average students may be given special consideration. (See re-entry student applicants below.)

2. Send the score report of the American College Testing program (ACT) or the Scholastic Aptitude Test (SAT) to the Admissions Office. The score report is a necessary part of the application under the rules described above.

3. Pay a nonrefundable application fee of $15.00.

4. Submit any additional items and information requested in the application materials or by the Office of Admissions.

Any applicant who is denied admission may make written appeal to the Director of Admissions.

Advanced Placement Examinations: Advanced Placement admitted to UTK 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 13 subject areas. The tests are usually taken by high school students preparing to enter college during their junior or senior year.

Departments at UTK which grant advanced placement credit for satisfactory test scores include Art, Biology, Chemistry, English, History, French, Spanish, German, Latin, Mathematics, Music, and Physics. The CEEB sends scores and test books on request to the Director of Admissions at UTK 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 Liberal Arts Advising Center.

Transfer Applicants

A student who has attempted 12 hours or more of college credit coursework at one or more accredited institutions of higher learning and who does not qualify as a freshman applicant under the requirements stated above must apply for admission as a transfer student. In addition to high school transcripts, a complete transcript of all work at each college or university the student has attended must be sent by those institutions directly to the UTK Admissions Office. Transcripts carried by the student may be useful in the advising and course selection process, but they are not acceptable in the admissions file. Transfer students who have taken neither the ACT nor the SAT are not required to do so. Upon admission to UTK, a student may be classified as a freshman, sophomore, junior, or senior, according to the number of hours passed. Only those courses in which a grade of C or better was earned shall be eligible for transfer credit.

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

Prospective transfers to UTK are encouraged to complete a sequence of related courses rather than transferring a single course from a series. Students at two-year community colleges, particularly within the state of Tennessee, are encouraged to complete the associate degree requirements prior to transferring to UTK, provided that such action is consistent with their educational goals.

In order to be considered for admission to UTK, a transfer applicant must have a transfer grade point average of 2.00 or better (on a 4-point scale) for all courses eligible for transfer credit.

International Student Applicants

All foreign nationals on non-immigrant visas are classified as international students whether they are applying to UTK as freshmen or transfer students. In addition to the information below, a pamphlet entitled “UTK Overseas Applicant Information” is available from the Advising Center, Office of the Director of 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:

- 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 525 (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.

- 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 continuous enrollment at The University of Tennessee, Knoxville.

- An undergraduate student whose first language is not English is exempt from taking the UTK English Placement Test and from presenting a TOEFL score of 525 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 525.

- A United States citizen or permanent resident whose first language is not English but who has graduated from a high school in a country whose first language is English, may be admitted with the minimum ACT English score of 20 (SAT verbal 410) or TOEFL 525. Any other United States citizen or permanent resident whose first language is not English must conform to the regulations stated in a, b and c above.

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

- International students must enroll in the health and accident insurance plan provided by UTK.
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.

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

Visiting students are admitted for one semester. Students desiring to transfer to UTK must file an application for admission as a transfer student. Students desiring to attend UTK on an interim basis for only one semester must submit, in addition to the application form, a letter of good standing from the institution at which enrolled.

Since academic records will not be available at UTK for visiting students, use of UTK courses in a visiting student's degree program is a matter to be considered by 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 overload will not be permitted.

Re-Entry Student Applicants
A re-entry student is one who has not been enrolled in school for 3 years or more prior to making application for admission to UTK. Freshman re-entry students should submit high school transcript(s) to the Admissions Office. Transfer re-entry students should submit high school transcript(s) and transcripts of all previous college work. ACT/SAT scores are not required for either freshman or transfer re-entry students.

A re-entry decision 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 UTK will be considered a re-entry student. Former UTK 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. Ordinarily the high school class of a non-degree student must have graduated. Former University of Tennessee students may not be admitted in this category prior to the receipt of a bachelor's degree.

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 UTK.

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 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) their placement is a part of the student's planned Individual Educational Placement (IEP) as established by the multidisciplinary team process.

Freshman Early-Admission Students
Freshman early-admission students are those who have completed the junior year of high school, have a grade point average of at least 3.50 and have an ACT composite of 28 or above or SAT of 1150 or above. 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.

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 a letter to the Director of Admissions. The letter should state 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 UTK and earn a degree.

Deadlines for Applications
Completed application materials and supporting credentials for first time freshmen and transfer students must be received in the Office of Admissions no later than the following dates: July 1 for Fall Semester; November 1 for Spring Semester; and April 1 for Summer Term. Any applicant who wishes to be considered for financial aid for the school year must submit completed application by March 1.

Re-Entry Student Applicants
Former students who have been dropped from the University for academic deficiency must apply for academic readmission and provide supporting materials to the Director of Readmissions no later than six weeks before the start of classes of the semester they wish to enter. Former students who left the University in good standing who have not registered for at least two semesters must apply for readmission no later than three weeks prior to the start of classes of the semester they wish to enter. The readmissions application for Summer Term for students in good standing is one week prior to the start of classes.

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 and may be reviewed as the result of submission of a subsequent fee classification questionnaire. Notice of classification is sent to the student 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 satisfactory 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 these Regulations for undergraduates may be obtained from the Residency Clerk, 320 Student Services Building. Additional appeals may be directed to the Fee Classification Coordinator, Room 320 Student Services Building. If a student classified out-of-state applies for in-state classification and is reclassified, the 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 term during which reclassification is sought and obtained unless otherwise determined by the institution. Reclas-
sification is made to the classification officer on or before the last day of regular registra-
tion of that term. Rule 1720-1.1-80.

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 established by the state. 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 Ten-
nessee residents.

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, Knoxville, 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. UTK does not discriminate on the basis of sex or handicap in the education pro-
grams and activities which it operates, pursuant to the requirements of Title IX of the Education Amendments of 1972, Pub. L. 97-318, and Section 504 of the Rehabilitation Act of 1973, Pub. L. 93112, respectively. This policy extends to both employment and admission to the University.

Inquiries concerning the University's policies 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 PRI-
VACY ACT
This act provides for confidentiality of student records, however, it also provides for basic identification of people at UTK without the consent of the individual. Release of information to third parties includes directory information, such as contain in the campus telephone book and sports bro-
chures. 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 con-
tained 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, Knoxville, 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 con-
tinued use of this number. However, if a student does not desire the social security number to be used, notification to the Uni-
versity 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 with-
out expressed consent of the student concerned.

STATE BOARD OF EDUCATION
Effective November 1978, the Tennessee State Board of Education requires all stu-
dents 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 pro-
grams.

College Association

College of Agriculture
The College of Agriculture grants and encourages association at the time of admis-
sion. Students who seek College of Agriculture association in candidacy for the Bachelor of Science in Agriculture must offer one unit of algebra and one unit of geometry, or two units of algebra; for the Bachelor of Science in Forestry, the Bachelor of Sci-
ence in Wildlife and Fisheries Science, and the Bachelor of Science in Agricultural Engi-
neering, two units of algebra, one unit of geometry and one-half unit of trigonometry or equivalent.

Students must have an overall GPA of 2.0 for all previous college work (including UTK) for transfer into the college. Out-of-state stu-
dents desiring to transfer into certain heavily enrolled programs of the College of Agricul-
ture may be required to have a higher GPA.

Students desiring a B. S. degree in Agricul-
ture in conjunction with meeting the re-
quirements for admission to the College of Veterinary Medicine should seek association in the pre-veterinary medicine curriculum offered in the Department of Animal Science.

School of Architecture
The School of Architecture grants and encourages provisional association at the time of admission to the University. The pro-
gram of the School is carefully designed by stages, and students who are not ready for association at the time of university admis-
sion should consult with an Architecture advisor to plan a program that will include early required courses. Specific require-
ments for admission and progression are listed under the School of Architecture.

College of Communications
The College of Communications may be made at any time. The minimum requirement is that students be in association with the college for the last 30 semester hours of course work. Those inter-
ested in this college should obtain a copy of the Program Planning Guidebook of the Col-
lege of Communications.

Requirements for progression into a major are found in the College of Communi-
cations section of this catalog.

College of Education
Application for association with the College of Education may be made at any time. The minimum requirement is that stu-
dents be in association with the college for the last 30 semester hours of course work. Students desiring to teach, in addition to associating with the College of Education, must also gain admittance to Teacher Edu-
cation. Applicants are encouraged to begin the multiphase admission process during their first term. The specific admission criter-
ias appear in the College of Education section of this catalog.

College of Engineering
The College of Engineering grants and encourages association at the time of admis-
sion as a University student, since students associated with the college have priority for registration in courses offered by the college. The minimum requirement is that students be in association with College of Engineering for the last 30 semester hours of course work. At the time of association with the college, a student may be associate with his/her major and an advisor will be assigned from that department.

REQUIREMENTS FOR FRESHMAN ASSO-
CIATION
1. Applicants with an ACT composite score of 23 (SAT 940) or above are associ-
ated. 2. Applicants presenting a combined score of high school GPA x 10 plus ACT composite equal to 53 or above are associ-
ated with the college, provided the ACT composite is 16 (SAT 720) or above.
3. In addition to the above guidelines, freshmen must present the following high school credits: a. two units of algebra; b. one unit of geometry; c. one-half unit of trigono-
metry (may be included in another math course); and d. one unit of physics or chem-
istry. International freshmen applicants are reviewed by representatives of the College of Engineering and the Admissions Office. The decision for international students is based upon the academic record, English language proficiency, and the number of international students from the applicant's home country already in the college.
TRANSFER STUDENTS FROM OUTSIDE UTK

All transfer students - Tennessee residents, out-of-state students and international students - are reviewed by a College Association Committee prior to an Association decision, regardless of transfer GPA. This committee normally is composed of the Associate Dean for Academic Affairs of the College and the Head of the Department with which Association is desired. Factors considered in the decision include:

1. Overall academic performance in previous college work;
2. Incidence of withdrawals, incompletes, or other evidence of problems interfering with orderly academic progress;
3. The level of prior interest in engineering, as evidenced by the kinds of courses taken and qualifications attempted;
4. A statement of educational goals, which all transfer students are encouraged to submit as part of their admission to UTK; and
5. The restrictions on space and staff in the department applied.

TRANSFER STUDENTS FROM WITHIN UTK

Any UTK student desiring association with one of the departments of the College of Engineering should go to the departmental office for the desired major. An interview with the department head or his designee is held, with the major items of consideration being the same as for external transfer students. If association is granted, the College/Major/Advisor Change form is processed by the department to officially change the student's academic home.

College of Human Ecology

The College of Human Ecology grants and encourages association of eligible students for all programs at the time of admission to the University. Progression requirements for particular majors are listed in the College of Human Ecology section of this catalog.

College of Liberal Arts

The College of Liberal Arts grants and encourages association of eligible students for all programs at the time of admission to the University. The minimum requirement is that students be in association with the college for the last 30 semester hours of coursework. To be eligible for association a student must:

1. Have completed a minimum of two years (2 units) of study in high school in one foreign language. Deficiency may be removed by completing one year of study in the foreign language;
2. Have completed one unit of algebra and one unit of geometry (or two units of algebra) in high school. As of Fall 1987, two units of algebra and one unit of geometry. Deficiency may be removed by obtaining a score of 22 or above on the mathematics portion of the ACT, by passing a proficiency examination administered by the mathematics department; or by passing an appropriate non-credit course offered through the Evening School.
3. Have completed one unit of algebra and one unit of geometry. The two-year Pre-Pharmacy, Pre-Nursing, and Allied Health Programs have the basic mathematics requirements but no language requirements.
4. Students who desire to associate with Liberal Arts should ensure that they have an advisor in the college whether or not they meet these requirements. Go to the Liberal Arts Advising Center.

College of Nursing

The minimum requirement is that students be in association with the College of Nursing for the last 30 semester hours of coursework. Specific progression requirements are listed in the College of Nursing section of this catalog.

College of Social Work

The minimum requirement is that students be in association with the college for the last 30 semester hours of coursework. Specific progression requirements are found in the College of Social Work section of this catalog.

Credit Hours, Grades and Grade Point Average

The basic unit of credit at The University of Tennessee, Knoxville, 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 UTK by the number of hours the student has attempted at UTK, not including hours for which grades of I, N, NC, P, S, and W have been received.

UNDERGRADUATE GRADES

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

Grades of Incomplete

Under extraordinary circumstances and at the discretion of the instructor, an "I" (incomplete) may be assigned to a student whose work is satisfactory but who has not completed a portion of the course. The terms for removal of the "I", including the time limit for removal of the "I", will be determined by the instructor. It is the responsibility of the student receiving an "I" to arrange with the instructor whatever action needed to remove the grade at the earliest possible date, and in any event, within one year of the assignment of incomplete. 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.

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.

A student need not be enrolled at the University to remove a grade of incomplete.

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 their 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, and F 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/drop line. 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 102, 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 all courses taken prior to and during an undergraduate student's first 30 semester hours (attempted) of collegiate study, only the last grade earned in a course that a student repeats will be counted in computing his or her grade point average. These courses must be repeated before a student attempts 60 semester hours of credit in order to be eligible for this policy. For all courses taken beyond the 30 semester hour provision, all grades in all courses will be included when computing the grade point average.

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. 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.

Mid-Term Progress Reports
Mid-term progress reports are issued to all students who have attempted fewer than 30 credit hours at UTK and to students in academic review. On the progress report instructors indicate whether the student's work is unsatisfactory or at the level of a C grade or better. The reports are sent to the student and to the student's advisor or advising center. They are not entered on the transcript.

Graduate School Grades
Graduate students and undergraduates taking courses for graduate credit are graded as follows:

A (4 quality points per hour), superior performance
B+ (3.5 quality points per hour), better than satisfactory performance
B (3 quality points per hour), satisfactory performance
C+ (2.5 quality points per hour), less than satisfactory performance
C (2 quality points per hour), performance well below the standard expected of graduate students
D (1 quality point per hour), clearly unsatisfactory performance and cannot be used to satisfy degree requirements
F (no quality points), extremely unsatisfactory performance and cannot be used to satisfy degree requirements

I (no quality points), a temporary grade indicating that the student has performed satisfactorily in the course but, due to unforeseen circumstances, has been unable to finish all requirements. An I is not given to enable the student to do additional work to raise a deficient grade. The course will not be counted in the cumulative grade average until a final grade is assigned. No student may graduate with an I on the record. Consult the Graduate Catalog for regulations concerning the removal of incomplete grades.

S/NC (carries credit hours, but no quality points), S is equivalent to B or better, and NC means no credit earned. Courses where NC is received may be repeated for an S. S/NC grading is allowed only where indicated in the course description in the Graduate Catalog. The number of S/NC courses in a student's program is limited to one-fourth of the total credit hours required.

P/NP (carries credit hours, but no quality points), P indicates progress toward completion of a thesis or dissertation. NP indicates no progress or inadequate progress.

W (carries no credit hours or quality points), indicates that the student withdrew from the course.

No graduate student may repeat a course for the purpose of raising a grade already received, with the exception of NC. A graduate student may not do additional work to raise a final grade.

Law School Grades
Law students are graded on a numerical scale from 0.0 to 4.0. Quality points per hour of credit in a given course are equal to the numerical grade received in the course. Grades of 0.9 and below count as failures. Some courses are graded on an S/NC basis.

General Regulations

Academic Advising at UTK
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 UTK 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 UTK, 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 Liberal Arts Advising Center, 220 Ayres Hall, with assistance of advisors in other colleges and career planning.

New students at UTK 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.

Academic Programs or 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 UTK 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 faculty 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

<table>
<thead>
<tr>
<th>YEAR</th>
<th>All Other Undergraduate Programs</th>
<th>Architecture Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>0-31.9</td>
<td>0-29.9</td>
</tr>
<tr>
<td>Second</td>
<td>32-63.9</td>
<td>30-59.9</td>
</tr>
<tr>
<td>Third</td>
<td>64-95.9</td>
<td>60-89.9</td>
</tr>
<tr>
<td>Fourth</td>
<td>96-127.9</td>
<td>90-up</td>
</tr>
<tr>
<td>Fifth</td>
<td>128-up</td>
<td></td>
</tr>
</tbody>
</table>

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.

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 UTK 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 UTK student if an equivalent correspondence course is available from The University of Tennessee Center for Extended Learning.

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.

Graduating Senior Privileges

A senior who falls 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.

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.

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.

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 Registrar.

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 examinations and the use of proficiency examinations to remove failing grades (also the grade of F) are determined by the department offering the proficiency examination.

Entering international students whose native language is not English are required to take the UTK 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 every student 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.

Seniors Eligible for Graduate Credit

A senior at The University of Tennessee, Knoxville, 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 12 hours of credit under graduate and graduate work per semester, subject to the approval of each term of the Dean of the Graduate School.

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

All students, whether enrolled in a college or school or University Students, must be accepted by the college or school of their major for a minimum of the last year of study (30 semester hours prior to graduation).

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

By checking the column headed "English Deficiency" on the grade forms, individual faculty members have the opportunity to report students who are deficient in writing to the Writing Laboratory for help in improvement. Such students are required to begin work in the laboratory at the start of their next term in residence and continue this work until their writing is deemed adequate. The adequacy of a student's writing will be determined by:

- a. demonstration of adequate skills on the Writing Laboratory Diagnostic Test. A passing grade on this text excuses a student from required laboratory attendance for one year. Reports in subsequent years of writing deficiency will require the student to demonstrate his/her writing proficiency once again; or
- b. demonstration, to the satisfaction of the Writing Laboratory director, of adequate writing skills in assignments and work sessions designated by the Director. Release by the director of the Writing Laboratory excuses a student from required laboratory attendance for one year. Reports in subsequent years of a writing deficiency will require the student to demonstrate his/her writing proficiency once again.

A student must fulfill the above requirements to graduate. However, if a student has no obligation to the Writing Laboratory in the term before graduation, a new report in the final term will not prevent graduation.

A student deficient in writing who fails to report to the Writing Laboratory will have his/her class schedule held the following term. To have the schedule released, he/she must first make an appointment to attend Writing Laboratory; the student will be required to attend a minimum of one session per week in the Writing Laboratory unless excused by the director. A student who has four (4) unexcused absences in the term for which his/her schedule has been held and released will be put on academic review for his/her following term in residence. A student who has four (4) unexcused absences in his/her review term will be dismissed from the University and will be ineligible to apply for readmission for one academic year.

Registration

Dates for orientation and registration are announced to new transfer and freshman students when the Certificate of Admission is issued. Graduate students are instructed when to register upon receipt of their Admission Status. Former students who have been absent from UTK 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 registration.

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 Dean of Student Conduct and 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 unless a lower maximum is specified by the college or school in which the student is enrolled. 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.

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 role to inform the instructor that the student is properly enrolled as auditor.

Auditors are required to register and pay fees. Prior to the drop and 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 at a terminal in Drop/Add. Once the drop and add 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 or instructor may be required to add a course after classes begin. Students may also, as departmental policies permit, change section of a course through the tenth day. Students must fill out and submit the appropriate form for section changes in order to receive credit for the course.

There are two drop deadlines at UTK prior to which students may withdraw from courses without penalty. Consult the current timetable for announced calendar dates. For all first semester undergraduates, the drop deadline is 22 calendar days after the beginning of classes. After completion of the first semester of undergraduate study, the drop deadline is 10 calendar days after the beginning of classes. The exceptions to these deadlines are summer and other special sessions. Students should consult the summer term timetable for the appropriate drop deadlines.

Any course may be dropped before the drop deadline specified above without notation on the academic record. In order to drop a course students must fill out and submit a drop form to the Registrar's Office.

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. After the drop deadline, any undergraduate or graduate student who drops a course will receive the grade of F unless it can be demonstrated that the request to drop the course is based on circumstances beyond the student's control. Examples of these circumstances are illness or injury (verified by the Student Health Service or private physician), or necessary change in work schedule occurring after the drop deadline (verified by the student's employer). Examples of causes which would not be acceptable for a late drop are improper registration by the student or failing a course.

Withdrawing from the University

All official withdrawals from the University for undergraduate day school are made through the Readmission and Withdrawal Office. It is important that all students who leave the University before the end of a term report their withdrawal to this office. Official withdrawal from the University by Evening School students is made through the University Evening School.

If an undergraduate student officially withdraws from the University before the drop deadline of 10 days (or 22 days for first semester undergraduates) after the beginning of classes, the grade of W will be given in all courses in which the student is currently enrolled. Summer term drop deadlines are published in the summer term timetable. In cases of withdrawal before the drop deadline, the Registrar will be notified of the date of withdrawal, who will then inform the instructors that the grade in those courses is automatically W. Graduate students should consult the Graduate Catalog for regulations concerning withdrawal from the University.

Any undergraduate student who withdraws from the University after the drop deadline of 10 calendar days (or 22 days for first term undergraduates) will receive the grade of F in all courses in which the student is currently enrolled unless it can be demonstrated that the request to withdraw is based on circumstances beyond the student's control. Examples of these circumstances are listed above in the section on dropping courses.

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

As an aid to the serious re-entry student whose previous academic work was below average, the following policy regarding the treatment of previous college-level academic work is available. An undergraduate student who has not taken any college-level credit courses for three calendar years or more prior to admission or readmission to UTK may petition for Academic Second Opportunity. Whether or not Academic Second Opportunity is granted is at the discretion of the Committee of Readmission. If granted, all previous academic work will remain on the permanent record, but the grades for such work will not be used in the computation of the grade point average or in the determination of good standing for retention purposes.

Prior courses in which a 'C' grade or better has been earned may be used to meet major, distribution, and graduation requirements; the previous grades will be computed as Satisfactory (S) grade. At least 30 hours must be completed at UTK after readmission. In addition, at least 60 semester hours of letter grades (A-F) must be earned after readmission in order to meet the minimum qualifications for graduation with honors.

Academic Second Opportunity may only be declared once. All petitions for Academic Second Opportunity must be submitted to the Committee on Readmission no sooner than completion of the first semester at UTK and no later than one calendar year following readmission to UTK.

Readmission

A student in good academic standing who has withdrawn from school or who has been absent for a term other than the summer must make application for readmission. Transfer students must apply for readmission before the deadlines.

A student who has been dropped academically must apply for readmission. Former students who in the interval have been enrolled at another accredited college or university must apply for readmission. An official transcript from other institutions attended and an acceptable combined cumulative grade point average are required for readmission.

To register for credit courses in any branch, center, or division of the University controlled by the Knoxville campus (except correspondence courses), a student must meet the readmission regulations that govern courses for credit at the Knoxville campus.
Academic Review (Subject to approval by the Board of Trustees)

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, the minimum cumulative GPA must be 2.00. The catalog contains additional retention, progression, and graduation requirements for specific programs.

A student whose cumulative or semester grade point average falls below the minimum acceptable level of 2.00 will be placed in academic review for the subsequent semester of enrollment. During that semester and any other semesters in review, a student must participate in a special advising program in the Dean's Office or other college or school. If, while in review, a student does not maintain a 2.00 grade point average for hours attempted each term, the student must meet with a committee appointed by the academic dean of the college or school of enrollment. This committee will determine the most appropriate academic action. In turn, a commitment from the student to accomplish the action recommended by the committee is expected. In certain circumstances, it may be concluded that a term of suspension from the University is necessary.

General Requirements for a Bachelor's Degree

To receive a bachelor's degree from The University of Tennessee, Knoxville, 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. Students are advised to consult the appropriate section of this catalog for any further degree requirements. Each program presented by the candidate for the bachelor's degree is reviewed and approved for meeting the degree requirements by the Office of the Dean of Admissions and Records.

1. Complete satisfactorily all requirements of the curriculum for which the student is enrolled, as described in the portion of this catalog devoted to the college or school offering the curriculum. Curricular 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, Knoxville provided the curriculum has been in effect within six years of the date of graduation. This does not obligate the University to offer a discontinued course. Programs may be adjusted by the student's faculty advisor and college dean, in consultation with the Registrar's Office.

2. Achieve a grade point average of at least 2.00 on all work attempted at The University of Tennessee.

3. Each student is required to achieve a 2.00 grade point average for his/her senior year. The senior year is interpreted to mean the last 30 hours completed at UT (at least two semesters as a minimum). If a student does not pass enough hours per semester to earn 30 hours during the last two semesters, then the last three or more semesters be counted. All courses taken during each semester considered as the senior year will be used in computing the average.

4. Complete the last 60 hours of credit offered for the bachelor's degree at an accredited senior college.

5. Complete the last 30 hours of credit offered for the bachelor's degree in residence at The University of Tennessee, Knoxville. In the College of Agriculture at least 18 semester hours of upper-division technical agriculture approved by the student's faculty advisor must be completed at The University of Tennessee, Knoxville.

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.

6. 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 251-252 (or 257-258). 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 hours' credit for fulfillment of this requirement is to be included in individual curricula.

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

8. Pay to the Treasurer's Office the graduation fee no later than the beginning of the semester of graduation.

9. Fill an application for a degree with the Office of the Registrar, Room 209 Student Services Building, no later than the eighth day of classes of the semester of intended graduation. This deadline is imperative in that all necessary processing can take place toward the degree.

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:

- "honors" 3.00 through 3.39
- "high honors" 3.40 through 3.74
- "highest honors" 3.75 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, Knoxville. Students must have earned at least 60 hours at UTK in order to qualify for honors categories. For all other students, the honors category is based on the average earned at UTK and the combined average of all college work attempted, with the lower of the two averages determining the honors category.

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.

Beginning with the Spring, 1989 commencement, honors categories will be based on the following scale:

- "Cum laude" 3.5 through 3.64
- "Magna cum laude" 3.65 through 3.79
- "Summa cum laude" 3.80 through 4.00

Second Bachelor's Degree

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

1. Meet all requirements of both degrees, as specified above.

2. Complete at least 30 semester hours beyond 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 Registrar.

Degrees

Graduate School
- Doctor of Business Administration
- Doctor of Education
- Doctor of Philosophy
- Specialist in Education
- Master of Accountancy
- Master of Fine Arts
- Master of Mathematics
- Master of Music
- Master of Science in Nursing
- Master of Public Administration
- Master of Public Health
- Master of Science
- Master of Science in Library Science
- Master of Science in Planning
- Master of Science in Social Work

College of Agriculture
- Bachelor of Science in Agriculture
- Bachelor of Science in Agricultural Engineering
- Bachelor of Science in Forestry
- Bachelor of Science in Ornamental Horticulture and Landscape Design
- Bachelor of Science in Wildlife and Fisheries Science
<table>
<thead>
<tr>
<th>School of Architecture</th>
<th>Bachelor of Science in Chemical Engineering</th>
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<tbody>
<tr>
<td>College of Business Administration</td>
<td>Bachelor of Science in Civil Engineering</td>
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<tr>
<td>College of Business Administration</td>
<td>Bachelor of Science in Electrical Engineering</td>
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<tr>
<td>College of Business Administration</td>
<td>Bachelor of Science in Engineering Physics</td>
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<tr>
<td>College of Business Administration</td>
<td>Bachelor of Science in Engineering Science</td>
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<tr>
<td>College of Business Administration</td>
<td>Bachelor of Science in Industrial Engineering</td>
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<tr>
<td>College of Business Administration</td>
<td>Bachelor of Science in Mechanical Engineering</td>
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<tr>
<td>College of Business Administration</td>
<td>Bachelor of Science in Metallurgical Engineering</td>
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<tr>
<td>College of Business Administration</td>
<td>Bachelor of Science in Nuclear Engineering</td>
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<tr>
<td>College of Communications</td>
<td>Bachelor of Science in Communications</td>
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<tr>
<td>College of Education</td>
<td>Bachelor of Science in Education</td>
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<tr>
<td>College of Engineering</td>
<td>Bachelor of Science in Aerospace Engineering</td>
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<tr>
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<td>Bachelor of Science in Chemical Engineering</td>
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<td>Bachelor of Science in Metallurgical Engineering</td>
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<tr>
<td>College of Engineering</td>
<td>Bachelor of Science in Nuclear Engineering</td>
</tr>
<tr>
<td>College of Human Ecology</td>
<td>Bachelor of Science in Home Economics</td>
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<td>College of Human Ecology</td>
<td>Bachelor of Science in Human Ecology</td>
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<tr>
<td>College of Human Ecology</td>
<td>Bachelor of Science in Interior Design</td>
</tr>
<tr>
<td>College of Human Ecology</td>
<td>Bachelor of Science in Tourism, Food and Lodging Administration</td>
</tr>
<tr>
<td>College of Law</td>
<td>Bachelor of Science in Law</td>
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<tr>
<td>College of Liberal Arts</td>
<td>Bachelor of Arts</td>
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<tr>
<td>College of Liberal Arts</td>
<td>Bachelor of Fine Arts</td>
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<tr>
<td>College of Liberal Arts</td>
<td>Bachelor of Music</td>
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<td>College of Liberal Arts</td>
<td>Bachelor of Science</td>
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<td>College of Liberal Arts</td>
<td>Bachelor of Science in Chemistry</td>
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<td>College of Nursing</td>
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<tr>
<td>College of Social Work</td>
<td>Bachelor of Science in Social Work</td>
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<tr>
<td>College of Veterinary Medicine</td>
<td>Bachelor of Science in Veterinary Medicine</td>
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<tr>
<td>TERMS COMMONLY USED IN ADMISSION AND REGISTRATION PROCEDURES AT UTK</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
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</tr>
<tr>
<td>Admission</td>
<td>The process of being admitted to UTK as a university student with the opportunity to take classes.</td>
</tr>
<tr>
<td>Association</td>
<td>The process of acceptance of an admitted student into a particular academic degree program of a college or school at UTK.</td>
</tr>
<tr>
<td>Progression</td>
<td>An internal evaluation process in some colleges or degree programs by means of which an associated student's academic standing is examined to determine if prior work is complete and if the student should proceed towards completion of the remaining degree requirements. The most common evaluation point is at the end of the sophomore year.</td>
</tr>
</tbody>
</table>
| Lower division | 1. A course normally taken during the freshman and sophomore years. In the UTK courses numbering system, lower division courses carry 100 and 200 numbers. Credit for lower division courses completed at another institution may be labeled "LD credit."  
2. A term referring to a student's location in the progression of coursework leading to an undergraduate degree and implying freshmen or sophomore classification. |
| Upper division | 1. Courses normally taken during the junior and senior years (300 and 400 numbers at UTK). A student taking primarily junior and senior courses is said to be an upper division student. Credit for upper division courses may be labeled "UD credit" on a transfer evaluation.  
2. The state of being classified as a junior or senior. |
<p>| Add and drop deadlines | The latest date in an academic quarter at UTK when a course may be added or dropped from a student's class schedule without approval of someone other than the student (exception: when the additional hours produce an academic overload). |
| Curriculum | The set of courses offered in a particular degree program. More generally, the courses (in total) offered in a college or university. The plural word is curricula. |
| Prerequisite | A requirement to be completed (or a level of skill or knowledge to be demonstrated) before enrollment in a course, a degree program, or association with a college. |
| Corequisite | A course to be taken or a requirement to be fulfilled at the same time as a particular course is being taken. |
| Application deadline | The date which all documents required for the admissions file of a prospective student must be received by the UTK Admissions Office. |
| Admissions file | The set of documents related to a request for admission to UTK. The set contains the application form and official transcripts of previous work in high school or college and may contain standardized test scores (ACT for freshman applicants), a statement of career objectives, forms for international students, or other information required by the Admissions Office or by a particular college or school. |
| Registration | The process of officially gaining entrance into one or more courses. |
| Orientation | A meeting (or series of meetings) designed to acquaint a new student with the facilities, policies, sources of information and assistance, and academic and social atmosphere of UTK. |
| Semester hour | The unit of academic credit at UTK. |
| Academic load | The total semester hours of credit for all courses taken during a specified time—semester, summer term, or other special sessions. |
| Full-time | One who is registered for 12 hours or more during a semester. |
| Semester | The division of the calendar year used in academic scheduling at UTK. A semester is roughly 4 months in duration. |</p>
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quality points</td>
<td>UTK compiles academic performance records through use of a scale assigning 4 “quality points” per semester hour of credit for an “A” grade ranging to 1 quality point per semester hour of credit for a “D” grade.</td>
</tr>
<tr>
<td>Grade point</td>
<td>An average on the 4-point scale determined by dividing the total accumulated quality points by the corresponding total of hours of credit attempted. Certain grades do not influence this computation. High schools have a similar procedure for computing an average on the numerical grading scale (often abbreviated as HSGPA).</td>
</tr>
<tr>
<td>AP exam</td>
<td>An Advanced Placement Examination in a specific subject area available nationally to high school students from the College Entrance Examination Board (CEEB). Obtain information on taking the examination from a high school guidance counselor. Information on UTK course credit for these examinations is available from the Admissions Office.</td>
</tr>
<tr>
<td>CLEP test</td>
<td>Subject area examination administered by the College Entrance Examination Board. Details and comparisons with the AP exam can be obtained from: The College-Level Examination Program Box 1821 Princeton, NJ 08540 Statements on acceptance of CLEP test scores for academic credit at UTK are found on this catalog.</td>
</tr>
<tr>
<td>Proficiency exam</td>
<td>A test given to a student admitted to UTK to evaluate knowledge or skills normally acquired through completion of a particular UTK course.</td>
</tr>
<tr>
<td>TOEFL test</td>
<td>An internationally administered examination measuring ability to use the English language. Required of any international student applying to UTK whose native language is not English. For information and to make arrangements to take the examination, contact: The Test of English as a Foreign Language Educational Testing Service Princeton, NJ 18540</td>
</tr>
<tr>
<td>English Proficiency Test</td>
<td>A test taken at UTK prior to initial registration (but after admission) by undergraduate international students to determine what English course (if any) must be taken at UTK. This local test is in addition to the minimum TOEFL test requirement.</td>
</tr>
<tr>
<td>University honors courses</td>
<td>Non-departmental enrichment courses available (by invitation only) from the University Honors Program.</td>
</tr>
<tr>
<td>Honors course or section</td>
<td>A version of a regular course reserved for students with superior preparation for that course. See, for example, English honors; Chemistry honors; Mathematics honors; History honors.</td>
</tr>
<tr>
<td>Evening school</td>
<td>An administrative unit of UTK’s Division of Continuing Education designed to serve students who work during the major portion of the day.</td>
</tr>
<tr>
<td>Major</td>
<td>The principal education interest of a student as represented by one of the curricula offered by the various colleges at UTK. The undergraduate degree may or may not carry the same title as the major. Every student has one or more majors but may or may not have a concentration within a major or be following an option within a major.</td>
</tr>
<tr>
<td>Minor</td>
<td>A secondary subject area interest (to the major) represented by a specified set of hours and/or courses. Differs from “concentration” in that a minor is not a subdivision of the major subject area.</td>
</tr>
<tr>
<td>Concentration</td>
<td>A collection of courses within a major which focus on a particular subject area. The term “concentration” describes the nature of the set of courses.</td>
</tr>
<tr>
<td>Option</td>
<td>A concentration of elective courses within a major which emphasizes one aspect of the major, chosen by a student according to his/her interests.</td>
</tr>
<tr>
<td>Accredited</td>
<td>A term applied to a school or specific program which has been recognized by some national or regional organization as meeting certain academic standards for quality and educational environment.</td>
</tr>
</tbody>
</table>
## MAJORS, MINORS, AND CONCENTRATIONS

<table>
<thead>
<tr>
<th>DEPARTMENT (UNIT)</th>
<th>MAJOR</th>
<th>CONCENTRATION WITHIN THE MAJOR</th>
<th>DEGREE</th>
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<tbody>
<tr>
<td><strong>College of Agriculture</strong></td>
<td>Agriculture (Interdepartmental Unit)</td>
<td></td>
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<tr>
<td>Agricultural Biology</td>
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<tr>
<td>Agricultural Economics and Rural Sociology</td>
<td>Agricultural Economics and Business</td>
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<td>Agricultural and Extension Education</td>
<td>Agricultural Education</td>
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<td>Agricultural Engineering</td>
<td>Agricultural Engineering</td>
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<td>Agricultural Engineering Technology</td>
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<td>Agricultural Extension Education</td>
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<tr>
<td>Animal Science</td>
<td>Animal Science</td>
<td>Animal Science</td>
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<td>Animal Science Curriculum with Pre-Veterinary (3-2)</td>
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<td>Food Technology and Science</td>
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<td>Forestry, Wildlife, and Fisheries</td>
<td>Forestry</td>
<td>Forest Resource Management Forest Recreation Wood Utilization</td>
<td>Bachelor of Science in Forestry</td>
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<td>Wildlife &amp; Fisheries Science</td>
<td>Bachelor of Science in Wildlife &amp; Fisheries Science</td>
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<td>Ornamental Horticulture and Landscape Design</td>
<td>Ornamental Horticulture and Landscape Design</td>
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<td>Bachelor of Science in Ornamental Horticulture and Landscape Design</td>
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<td>Plant and Soil Science</td>
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<td>Architecture</td>
<td>Architectural Design</td>
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<td>Accounting and Business Law</td>
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<td>Business Administration (Interdepartmental Unit)</td>
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<td>General Business</td>
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<td>Public Administration</td>
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<td>Management Science Programs</td>
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<td>Marketing</td>
<td>Bachelor of Science in Business Administration</td>
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<td>Marketing and Transportation</td>
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<td>Transportation and Logistics</td>
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*Minor available in Portuguese
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*Minor available: Driver and Traffic Education and Health Education
*Minor available: General Special Education
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*Minor available in Portuguese
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<td>College of Social Work</td>
<td>College of Social Work</td>
<td>Social Work</td>
<td>Bachelor of Science in Social Work</td>
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<tr>
<td>Graduate School of Library and Information Science</td>
<td>Graduate School of Library and Information Science</td>
<td>Bachelor of Arts</td>
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*Minor available: Coaching
*Minor available: General Special Education
*Minor available: Driver and Traffic Education and Health Education
The College of Agriculture traces its history to 1869 when the University was designated as Tennessee’s Federal Land-Grant Institution. Under terms of the Federal Land-Grant Act, the University was enabled for the first time to offer instruction in agriculture. This later was expanded to include research for the development of new knowledge and extension for dissemination of such knowledge to rural people.

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

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

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

**Curricula in Agriculture**

Broad opportunities for individuals to prepare for a future in agriculture, forestry, and wildlife and fisheries science are offered in the College of Agriculture. The College provides curricula leading to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Agricultural Engineering, Bachelor of Science in Forestry, Bachelor of Sciences in Ornamental Horticulture and Landscape Design and Bachelor of Science in Wildlife and Fisheries Science. The professional degree program in agricultural engineering receives strong support from the College of Engineering and is fully accredited by the Accreditation Board of Engineering and Technology. The forestry curriculum is fully accredited by the Society of American Foresters.

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

Students pursuing a program leading to the degree of Bachelor of Science in Agricultural Engineering may select the concentration offered in food engineering.

Students seeking the Bachelor of Science in Forestry may choose concentrations in forest resource management, forest recreation or wood utilization.

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

The use of transfer credit in technical subject matter areas appropriate to each organized curriculum will be considered and approved by the advisor of that curriculum and the Dean of the College of Agriculture. When desirable, validating or proficiency examinations may be requested to determine competence in an area and to avoid unnecessary repetition. Such examinations should be taken during the first semester in residence and must be conducted under the supervision of the head of the department in which the course is offered. A minimum of 18 semester hours of upper division technical agriculture appropriate to a specified major requirement, and approved by the major advisor, must be completed in residence to fulfill the requirements of baccalaureate degrees offered in the college.

### Satisfactory/No Credit Courses

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

### Graduate Study in Agriculture

**MASTER OF SCIENCE PROGRAMS**

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

DOCTORAL PROGRAMS

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

Facilities

The College of Agriculture uses the facilities on the agricultural campus, on University farms located near Knoxville, and on the main University campus. On the agricultural campus are found the main agricultural building, Morgan Hall; the Agricultural Engineering Building; McCord Hall; the Dairy Products Building; McLeod Food Technology Building; C. E. Brehm Animal Sciences Building, which includes a large pavilion; Ellington Plant Sciences Building which houses the plant science departments; and greenhouses for teaching and experimental work. The buildings which have been erected recently provide facilities comparable to the best in the country for the departments which they serve.

Four farms adjacent to or within eight miles of the agricultural campus are used both for instructional and experimental purposes. Morgan Farm (80 acres), Cherokee Farm (550 acres), Plant Sciences Farm (212 acres), and a livestock farm (510 acres) provide excellent field laboratory facilities for instructional programs offered in the College. Cherokee Woodlot (120 acres), the Oak Ridge Forest (2,250 acres), and Ames Plantation (8,000 acres of forested land) provide excellent facilities for field work in forestry, wildlife and fisheries.

Transportation by bus is provided for classes of agricultural students from the agricultural campus to the University farms and to other points of interest where instruction may be given. Transportation by bus is provided between the agricultural campus and the main University campus so that students may make the change between classes without serious inconvenience.

The facilities of the University on the main campus are available to agricultural students. Courses in the basic sciences, business, communications, engineering, etc., are open to agricultural students and are taught on the main University campus.

Selection of Curriculum

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

agriculture and to guide them in the planning of appropriate courses of study for the freshman year. When they choose a curriculum, an advisor will be assigned from that department.

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

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

Optional Minors

Agricultural students may have single or multiple minors in agriculture or in other colleges recorded on their transcripts without regard to course overlap among majors and minors. A minor in a department of the College of Agriculture requires a minimum of 18 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 UTK. Specific requirements are listed by each department offering a minor. Minors offered in the College of Agriculture are open to students of other colleges who have the approval of their advisor and department.

Minimum Requirements for Baccalaureate Degree Programs

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

Agriculture and Renewable Natural Resources Perspectives (3)

Biological Sciences (College of Agriculture courses included) (8)

Computer Science (3)

English and Communications (12) (as specified by the department and/or electives)

English Composition (6)

Speech (3)

Writing or Speaking elective (3)

Mathematics (6)

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

Social Sciences and Humanities (12)

Economics (4)

Electives (8)

Directed Electives (6)

Major Courses (24)

College of Agriculture 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 Agricultural Engineering

2 Must be courses in English and communications, biological sciences, physical sciences, or social sciences and humanities or combinations of these subject matter areas.

3 Bachelor of Science in Agricultural Engineering and Bachelor of Science in Forestry program exceed.

Independent Study

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

Course Load

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

Transfer Students

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

Agricultural Economics and Rural Sociology

Professors:

M. B. Badenhop, Ph. D. Purdue; J. R. Brooker, Ph. D. Florida; C. L. Cleland, Ph. D. Wisconsin; I. Dubov, Ph. D. California (Berkeley); D. B. Eastwood, Ph. D. Tufts; L. H. Keller, Ph. D. Kentucky; T. H. Klinkt (Asst. Dean), Ph. D. Kentucky; F. O. Leuthold, Ph. D. Wisconsin; J. A. Martin (Emeritus), Ph. D. Minnesota; D. L. McLemore, Ph. D. Clemson; B. R. McManus, Ph. D. Purdue; S. D. Mundy, Ph. D. Tennessee; B. H. Penteceot (Asst. Vice Pres.), J. D. Tennessee; W. P. Ranney (Emeritus), Ph. D. Minnesota; C. B. Sappington, Ph. D. Illinois; T. J. Whately (Emeritus), Ph. D. Purdue.

Associate Professors:

B. C. English, Ph. D. Iowa State; R. H. Orr, Ph. D. Illinois; W. M. Park, Ph. D. Virginia Polytechnic Institute; R. K. Roberts, Ph. D. Iowa State; R. W. Todd, J. D. Tennessee.
Agricultural Economics and Business Curriculum

Advisors:
Professor McLemore. Associate Professors Park and Roberts. Assistant Professors Huffaker and VanTassell.

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 19 credit hours including Economics 201, Agricultural Economics 210, 241, 350, and 6 hours of Agricultural Economics and Rural Sociology electives.

Agricultural and Extension Education

Professors:
C. E. Carter, Jr., Ph. D. Ohio State; L. H. Dickson, Ed. D. Cornell.

Associate Professors:

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 vocational agriculture 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 vocational agriculture. 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 meeting the requirements for general vocational agriculture certification may secure endorsements in ornamental horticulture and/or agricultural mechanics by meeting the following requirements:
1. Ornamental horticulture - 12 semester hours of courses in ornamental horticulture and landscape design and/or plant and soil sciences. Subject matter areas must include plant propagation, greenhouse management, growing media, landscape design and nursery management.
2. Agricultural mechanics - 12 semester hours of courses in agricultural mechanization. Subject matter areas must include agricultural power and machinery, soil and water conservation, and agricultural structures.

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 101 ... 3
Biology 110, 120 ... 8
Mathematics 110, 121 ... 6
English 101, 102 ... 6
Economics 201 ... 4
Nondepartmental social science and humanities ... 6
Sophomore
Journalism 201 ... 3
Computer Science 100 ... 3
Agricultural Economics 210 ... 3
Physical Science electives ... 8
Speech 210, 240 ... 3
Statistics 201 ... 3
Accounting 201, 202 ... 6
Nondepartmental agricultural electives ... 3
Junior
Rural Sociology 380 ... 3
Economics 311, 312 ... 6
Statistics elective ... 3
Nondepartmental agricultural electives ... 6
Agricultural Economics 342, 350 ... 4
Agricultural Economics or Rural Sociology electives ... 3
Electives ... 8
Senior
Nondepartmental agricultural elective ... 3
Agricultural Economics or Rural Sociology electives ... 12
Business electives ... 6
Electives ... 12
Total: 132 hours

1Selected from History 151-152 or 251-252, Philosophy 135 or 360, Political Science 101, Psychology 110 or 220.
2Selected from Chemistry, Geology, Physics.
3Selected from Finance, Management, Marketing, Transportation.
4Equivalent hours will be substituted for students not desiring certification.
Engineering Cooperative Scholarship program, Engineers' Day program, and other student activities in the College of Engineering. They are also eligible for selection into Tau Beta Pi and Alpha Zeta. Agricultural engineering majors interested in the Cooperative Engineering Scholarship program should consult with the head of the Department of Agricultural Engineering.

Agricultural Engineering

Professors:
C. H. Shelton, M.S. Virginia Polytechnic Institute; F. D. Tompkins, Ph.D. Tennessee, P.E.; L. R. Wilhelm, Ph.D. Tennessee, P.E.

Associate Professors:
R. D. vonBernalth, Ph.D. Nebraska, P.E.;
C. R. Mote, Ph.D. Ohio State, P.E.

Assistant Professor:
D. O. Baxter, M.S. Missouri

Advisors:
Professors Luttrell, Bledsoe, Henry, McDow, Tompkins, and Wilhelm. Associate Professors Mote and von Bernuth.

The College of Agriculture, with the cooperation of the College of Engineering, offers a four-year curriculum leading to the degree of Bachelor of Science in Agricultural Engineering. The curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology. Industry, government agencies, research and testing organizations, and foreign service offer employment opportunities to agricultural engineers.

In addition to general requirements for admission to the University, the minimum requirements for association include two units of algebra, one unit in geometry, one-half unit in trigonometry, and one unit in physics or chemistry. Students may remove deficiencies by registering for special classes during the freshman year. The curriculum trains students in analysis and design skills to solve engineering problems in agriculture. In the senior year comprehensive design of systems and their components is emphasized.

Courses selected from areas of 1) Humanities and the Arts, 2) Historical Perspectives, 3) Social Science; at least one course from Humanities and the Arts and at least two upper division courses from one of the three areas.

Agricultural Engineering With Concentration In Food Engineering

Freshman

Basic Engineering 100, 101, 111, 121, 131 ....................... 13
Mathematics 141, 142 ............................................. 8

Sophomore

Agricultural Engineering 200 ........................................ 8
Chemistry 120, 130 .................................................. 2
Chemistry 101, 102 .................................................. 2

Junior

Agricultural Engineering 400, 410, 420, 425 ......................... 7
Design Electives ..................................................... 4
Economics 201 .......................................................... 4
English 457 ............................................................. 3

Senior

Agricultural Engineering 430, 435, 440, 445, 450, 455, 460 .6

Total: 137 hours

*For equivalent honors course.
1If mathematics ACT is less than 28 or placement test score is unsatisfactory, take Mathematics 130 prior to 141 (see advisor for alternate course schedule). Credit toward graduation will not be granted for mathematics 130.
2Courses selected from areas of 1) Humanities and the Arts, 2) Historical Perspectives, 3) Social Science; at least one course from Humanities and the Arts and at least two upper division courses from one of the three areas.
3May include agricultural engineering design course or design courses from other engineering disciplines as agreed as advisor; Agricultural Engineering 430, 435, 440, 445, 450, 455, 460.
4As agreed with advisor.

Agricultural Engineering Technology

Advisors:
Professors Luttrell, Bledsoe, Henry, McDow, Tompkins, and Wilhelm. Associate Professors Mote and von Bernuth.

No baccalaureate degree program is offered in agricultural 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 agricultural engineering technology requires a minimum of 15 semester hours as follows: Agricultural Engineering Technology 201, 211, 432, 442 and two of the three courses 422, 452, 462.

A program leading to the Master of Science degree with a concentration in agricultural 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 agricultural engineering technology. Students who completed courses equivalent to those required for the minor in agricultural engineering technology.
Entomology and Plant Pathology

Professors:  

Assistant Professors:  
J. F. Grant, Ph. D. Clemson; B. B. Reddick, Ph. D. Clemson; M. T. Windham, Ph. D. North Carolina State.

Advisors:  
Southards, Gerhardt, Hilly, Lambdin, and Piess.

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, 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.

Animal Science

Professors:  
D. O. Richardson (Head), Ph. D. Ohio State; K. M. Barth, Ph. D. Rutgers; M. C. Bell (Emeritus), Ph. D. Oklahoma State; J. K. Bieterman (Emeritus), Ph. D. Ohio State; G. C. Chamberlain (Emeritus), Ph. D. Iowa State; B. H. Erickson, Ph. D. Kansas State; O. G. Hall (Dean), Ph. D. Iowa State; S. L. Hansard (Emeritus), Ph. D. Florida; R. R. Lidvall, M. S. Tennessee; T. P. McDonald, Ph. D. Tennessee; J. B. McLaren, Ph. D. Auburn; G. M. Merriman (Emeritus), D. V. M. Michigan State; J. K. Miller, Ph. D. Georgia; M. J. Montgomery, Ph. D. Illinois; R. R. Shrode, Ph. D. Iowa State; R. L. Tugwell (Emeritus), Ph. D. Kansas State.

Associate Professors:  

Assistant Professors:  
G. A. Baumbach, Ph. D. Florida; B. R. Bell, Ph. D. North Carolina State; A. B. Chestnut, Ph. D. Illinois; W. C. Cullen, Ph. D. Minnesota; J. D. Godkin, Ph. D. Massachusetts; S. P. Oliver, Ph. D. Ohio State; S. E. Oroz, Ph. D. V. M. Ohio State; J. D. Smal1ing, Ph. D. Texas A&M.

Advisors:  
Professors Barth, Erickson, Lidvall, McLaren, Montgomery, Richardson, Shirley and Shrode. Associate Professors Backus, Heitmann, Hitchcock, Kattesh, Masincupp, Robbins and Waller. Assistant Professors B. Bell, Godkin, Oliver and Smal1ing.

The curriculum is designed to prepare students for leadership careers in livestock production and related industries. Courses in 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 18 credit hours including 261 (3), 281 (4), and 11 credits from 321 (3), 322 (3), 331 (3), 332 (3), one of the 360 series (2) and one of the 480 series (3). Requests for substitution of similar courses in biology or zoology will be considered on an individual basis. It is suggested that the selection from the 360 series and one of the 480 series deal with the same class of livestock.

Hours Credit

| Freshman | English 101-102 | 6 |
| Mathematics 121-122 or 141-142 or 151-152 | 6 |
| Biology 110-120 | 8 |
| Chemistry 100-111 or 120-130 | 8 |
| Agriculture 101 | 3 |
| Animal Science 101 | 3 |
| Humanities/Social Science elective | 3 |
| Sophomore | English/Communications electives | 6 |
| Microbiology 210 | 3 |
| Chemistry, Physics, or Geology elective | 3 |
| Animal Science 261, 281 | 7 |
| Statistics 201 | 3 |
| Computer Science Elective | 3 |
| Biology 220 | 3 |
| Plant and Soil Science 430 | 4 |
| Junior | Animal Science 341, 321, 331, 322, 332 | 15 |
| Humanities/Social Science | 6 |
| English/Communications | 3 |
| Economics 201 | 3 |
| Free Electives | 16 |
| Non-Animal Science Agriculture | 3 |
| Senior | Animal Science, 2 of 481, 482, 483, 484, 485, 486, or 489 (6 hours) | 495 (1 hour) |
| Non-Animal Science Agriculture electives | 9 |
| Free Electives | 16 |

Total: 132 hours

Electives allow students to select an area for specialization. Those interested in production would select additional courses in agriculture; in business administration, economics, agricultural economics, finance, and accounting; in research in chemistry, zoology, physics, and statistics. Electives should be chosen with career objectives in mind and in consultation with the advisor.

The animal science core courses are 261, 281, 321, 322, 331, 332 and 341.

Combined Program Prevet-B. S. Degree

This program allows students to be awarded a B.S. degree in Agriculture with a major in Animal Science and one of the 480 series, or 489. Successful completion of the first two semesters in the CVM. Students must begin this program early in the pre-veterinary curriculum. The specific requirements are:

1. Completion of all pre-veterinary requirements.
2. The last 30 hours of the three-year pre-veterinary curriculum must have been taken at UTK.
3. At least 12 hours of upper division (300 and 400 level courses) technical agriculture courses must be taken at UTK.
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. Agriculture 101 - 3 hours
   b. Animal Science 261, 281 - 7 hours
   c. Animal Science 322 - 3 hours
   d. Animal Science 331 - 3 hours
   e. Animal Science 341 - 3 hours
   f. One of Animal Science 481, 482, 483, 484, 485, 486, or 489 - 3 hours
   g. Computer Science - 3 hours
   h. Economics 201 - 3 hours

The pre-veterinary requirements include 18 hours of Humanities and Social Sciences. By proper selection of these courses the pre-vet and Animal Science requirements can be satisfied.

1. Non-Animal Science Agriculture - 6 hours
5. Satisfactory completion of the first two semesters in the CVM professional program.
6. No later than January 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 | English 101-102 | 6 |
| Mathematics 121-122 or 141-142 or 151-152 | 6 |
| Biology 110-120 | 8 |
| Chemistry 120-130 | 8 |
| a. Agriculture 101 | 3 |
| b. Animal Science 101 | 3 |
| c. Animal Science 261, 281 | 7 |
| d. Computer Science Elective | 3 |
| e. Economics 201 | 3 |
| f. Computer Science Elective | 3 |
| g. Computer Science Elective | 3 |
| h. Economics 201 | 3

Total: 132 hours
Science 

**Economics**

3

**Commodity courses detail processing of**

Junior

1

Animal Science 341, 322, 331, and one of Animal Science 481, 482, 483, 484, 485, 486, or 489 ... 12

2

English/Communications Elective 3

Biochemistry 410 ... 4

Physics 221-222 ... 8

1 Non Animal Science Agriculture ... 6

Total: 102 hours

4 Courses required beyond PV requirements for PVB-BS combined program.

2 Will count toward Humanities/Social Science BS combined program.

The minor in Food Technology and Science requires a minimum of 16 hours as follows: 410, 420-429, 410 or 411, 440, and one elective course in Food Technology and Science.

**Food Technology**

and **Science**

Professors:

H. O. Jaynes (Head), Ph. D. Illinois;

J. L. Collins, Ph. D. Maryland; S. L. Melton, Ph. D. Tennessee; J. T. Miles (Emeritus), Ph. D. Wisconsin; W. W. Overcast (Emeritus), Ph. D. Iowa State; M. P. Penfield, Ph. D. Tennessee.

Associate Professors:

P. M. Davidson, Ph. D. Washington State;

B. J. Demott, Ph. D. Michigan State;

F. A. Draughon, Ph. D. Georgia;

H. D. Lovejoy, Ph. D. Kansas State;

J. R. Mount, Ph. D. Ohio State;

M. J. Rieman, Ph. D. Kansas State.

Assistant Professors:

R. N. Biewal, University of Massachusetts, Amhurst; G. L. Christen, Ph. D. Missouri.

Advisors:

Collins, Draughon, Jaynes, Melton, Mount, and Penfield.

The major in food technology and science prepares students to apply the sciences and engineering technology to manufacture, preserve, store, and distribute foods that meet the needs and desires of consumers.

Coursework emphasizes the basic principles of converting raw food materials into acceptable consumer products. Selected commodity courses detail processing of specific types of food materials. Students entering the program must have an interest in the sciences, particularly chemistry, microbiology, and biology.

This curriculum is designed to prepare students for a professional career in positions in the food industry such as food microbiologist, food chemist, quality evaluation and control supervisor, plant management, ingredients specialist, etc. The program of coursework conforms to the guidelines in the model Curriculum of the Institute of Food Technologists. A special problems course provides opportunity for practical training in food processing plants and laboratories or federal and state laboratories.

The minor in Food Technology and Science requires a minimum of 16 hours as follows: 410, 420-429, 410 or 411, 440, and one elective course in Food Technology and Science.

**Hours Credit**

Freshman

Agriculture 101 ... 3

Chemistry 120, 130 ... 8

English 101, 102 ... 8

Food Technology and Science 140 ... 6

1 Mathematics 110, 121 ... 6

2 Social Sciences and Humanities Electives ... 6

Sophomore

Elective ... 3

Biology 120 ... 4

Chemistry 110 ... 4

Economics 201 ... 4

Microbiology 210 ... 3

Physics 121 ... 3

Speech 210 ... 3

Communications Elective ... 3

Computer Science Elective ... 3

1 Social Sciences and Humanities Electives ... 3

Junior

Agricultural Engineering Technology 422 ... 3

Food Technology and Science 410, 411 ... 6

Food Technology and Science 420, 429 ... 6

Nutrition and Food Sciences 200, 201 ... 7

Plant and Soil Science 471 ... 3

Statistics 365 ... 3

1 Social Sciences and Humanities Electives ... 5

Senior

Food Technology and Science 491 ... 2

Food Technology and Science 430, 440 ... 6

Nutrition and Food Sciences 300 ... 3

Food Technology and Sciences Electives ... 9

General Electives ... 15

Total: 132 hours

1 Mathematics 130 and 141 or 151 accepted for students with advanced mathematics background.

2 Social Sciences and Humanities courses within the departments of: a. Art, Music, Theatre, Classics; b. History, Cultural Studies; c. Germanic and Slavic Languages, Romance Languages; and d. Philosophy, Psychology, Anthropology, Human Services, Sociology (including Agricultural Economics and Rural Society), Economics, Political Sciences, Religious Studies, Social Work.

Requirements will be a maximum of 6 credits from a., b., or c. and a minimum of 9 credits from d. to include Economics 201.

2 Or Statistics 291

3 Commodity electives are required, one each in dairy products, meats and foods from plant sources.

**Forestry, Wildlife and Fisheries**

Professors:

G. T. Weaver (Head), Ph. D. Tennessee; J. W. Barrett (Emeritus), Ph. D. Syracuse; E. R. Buckner, Ph. D. North Carolina State; J. L. Byford, Ph. D. Auburn; H. A. Core (Emeritus), Ph. D. Syracuse; P. M. Winistorfer, Ph. D. Iowa State.

M. R. Peltom, Ph. D. Georgia; G. Schneider (Associate Dean, College of Agriculture), Ph. D. Michigan State; E. Thor (Emeritus), Ph. D. North Carolina State; J. L. Wilson, Ph. D. Tennessee; F. W. Woods, Ph. D. Tennessee.

Associate Professors:


Assistant Professors:

S. E. Scharbaum, Ph. D. Colorado State; P. M. Winistorfer, Ph. D. Iowa State.

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 three concentrations: Forest Resource Management Concentration, Forest Recreation Concentration, and Wood Utilization Concentration.

**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 9 hours of courses having a Forestry designation. Prerequisites will not be waived.

**FOREST RESOURCE MANAGEMENT CONCENTRATION**

The Forest Resource Management Concentration provides an opportunity to obtain an education related to the management of the broad spectrum of woodland 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, zoology, 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

<table>
<thead>
<tr>
<th>Level</th>
<th>Course</th>
<th>Hours</th>
<th>Credit</th>
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<tbody>
<tr>
<td>Freshman</td>
<td>English 101, 102</td>
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<tr>
<td></td>
<td>Mathematics 130, 151</td>
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<td></td>
<td>Botany 110, 120</td>
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<tr>
<td></td>
<td>Chemistry 100</td>
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<td>Chemistry 110 or Physics 121 or Geology 101</td>
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<td></td>
<td>Agriculture 101</td>
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<td></td>
<td>WFS 211</td>
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<td>Sophomore</td>
<td>Economics 201</td>
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<td>Senior</td>
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<td></td>
<td>1History Elective</td>
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<td></td>
<td>2Vertebrate Biology Elective</td>
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<tr>
<td></td>
<td>General Electives</td>
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</tbody>
</table>

Total: 135 hours

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

### FOREST RECREATION CONCENTRATION

The Forest Recreation Conference provides opportunities to obtain an education in preparation for professional positions in the planning, development, interpretation, and management of private and public forested lands for recreational purposes. Students also learn the basic philosophy and principles associated with leisure time and its use along with the relationship of forest resources to the constructive use of leisure time.

### Hours Credit

<table>
<thead>
<tr>
<th>Level</th>
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<th>Hours</th>
<th>Credit</th>
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<tbody>
<tr>
<td>Freshman</td>
<td>English 101, 102</td>
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<tr>
<td></td>
<td>Mathematics 141, 142, 143, 144</td>
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<td>Botany 110, 120</td>
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<td></td>
<td>Agriculture 101</td>
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<td>FWF 211</td>
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<td>Physics 121, 122</td>
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<td>Mathematics 241</td>
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<td>Statistics 251</td>
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<td></td>
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</table>

Total: 135 hours

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

### WOOD UTILIZATION CONCENTRATION

The Wood Utilization Concentration trains students for careers in forest products industries such as lumber, furniture, pulp and paper, or wood composites. Coursework is oriented toward the application of wood technology and engineering principles to wood processing. A sound background in basic sciences is required.

### Hours Credit

<table>
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<tr>
<th>Level</th>
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<th>Credit</th>
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<tbody>
<tr>
<td>Freshman</td>
<td>English 101, 102</td>
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<tr>
<td></td>
<td>Mathematics 130, 151</td>
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<td>Botany 110, 120</td>
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<td>General Electives</td>
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</table>

Total: 135 hours

1. Lists 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 as follows: FWF 211 or 250, FWF 300, WFS 341, 441, 443, and 444 or 445. Prerequisites will not be waived.

### Hours Credit

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<tr>
<th>Level</th>
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<th>Credit</th>
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<tbody>
<tr>
<td>Freshman</td>
<td>English 101, 102</td>
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<td>Mathematics 130, 151</td>
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<td>Botany 110, 120</td>
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<td>WFS 211</td>
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<tr>
<td>Sophomore</td>
<td>Chemistry 100, 110</td>
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<td>2Restricted Electives</td>
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Total: 132 hours

1. Communications course in speech or writing.
2. Vertebrate Biology course in ornithology, herpetology, mammalogy, or entomology.
3. Science Electives are to be 300-level or above from the following departments: Animal Science, Botany, Entomology and Plant Pathology, Forestry, Wildlife and Fisheries, Plant and Soil Science, and Zoology.

**Ornamental Horticulture and Landscape Design**

**Professors:**

G. D. Crater (Head), Ph. D. Ohio State; L. M. Callahan, Ph. D. Rutgers; E. T. Graham, Ph. D. Pennsylvania State; G. L. McDaniel, Ph. D. Iowa State; N. D. Peacock (Emeritus), Ph. D. Michigan State; H. van de Werken, GAVST, Horticulture College (Frederiksoord, Holland); D. B. Williams, Ph. D. Pennsylvania State.

**Associate Professor:**

J. W. Day, Ph. D. Mississippi State.
of courses in Ornamental Horticulture and Landscape Design provides five general areas of study designed to provide students knowledge and skills needed for successful careers. The areas are landscape design, landscape construction, nursery management, floriculture and turfgrass management. Landscape design is the shaping and enhancement of the environment for our use, comfort, and enjoyment. It not only involves the use of plant material to accomplish this goal, but also provides an understanding of the functional requirements for work, recreation, and housing. Emphasis is on understanding the design process and acquiring the appropriate graphic, scientific, and technical skills. Opportunities include landscape design services, landscape development and maintenance, garden center operation, allied sales, municipal and highway landscaping, park development, and teaching. Landscape construction begins with a final design plan and involves implementing the plan with all the necessary construction steps including earthwork, paving surfaces, fences, pools, decks, patios, benches, and planting installation. Students learn about basic construction materials, drainage and irrigation, water features, outdoor lighting, and other components of landscape construction. Nursery management involves the growing of trees, shrubs and other ornamental plants for sale. Skills necessary to be a nursery manager include horticultural knowledge and management skills. Opportunities are in nurseries, garden centers, botanical gardens, and arboretums, and in landscape maintenance and installation. The area of floriculture includes the science of producing flowering plants in field and greenhouse, and the art and science of using these plants for the benefit of humans. Opportunities are available as greenhouse managers, floral designers, retail salespersons, research workers, and related commercial areas. Interiorscape development is a significant new field relating to floriculture. Turfgrass management includes all aspects of growing and caring for turfgrass. The increasing number of golf courses and home lawns and the emphasis on better quality make new opportunities for turfgrass managers. Such opportunities include golf course superintendents, park and recreational turf managers, operation of a lawn or grounds maintenance business, and sod production. Minor in Ornamental Horticulture and Landscape Design A minor in Ornamental Horticulture and Landscape Design shall consist of 18 hours of courses in Ornamental Horticulture and Landscape Design. Three of the following four courses must be included: 280, 310, 330, 340. Any of the following may be taken as part of the nine additional hours: 210, 220, 230, 320, 330, 360, 370, 410, 440, 450, 460, 480, 490, 493. Prerequisites, if any, to these courses will not be waived, but must be included in addition to the total of 18 hours.

### Plant and Soil Science

**Professors:** J. E. Foss (Head), Ph. D. Minnnesota; F. F. Bell (Emeritus), Ph. D. Iowa State; D. L. Coffey, Ph. D. Purdue; B. V. Conger, Ph. D. Washington; D. J. Foss, Ph. D. Washington State; H. A. Fribourg, Ph. D. Iowa State; L. M. Josephson (Emeritus), Ph. D. Wisconsin; W. L. Parks, Ph. D. Purdue; B. S. Pickett (Emeritus), Ph. D. Michigan State; J. H. Reynolds, Ph. D. Wisconsin; L. F. Seatzt (Emeritus), Ph. D. North Carolina State; L. N. Skold (Emeritus), M. S. Kansas State; M. E. Springer (Emeritus), Ph. D. California (Berkeley); H. D. SWigle (Emeritus), Ph. D. Louisiana State; E. Winters (Emeritus), Ph. D. Illinois.

**Associate Professors:** F. L. Allen, Ph. D. Minnesota; J. T. Ammons, Ph. D. West Virginia; D. E. Dayton, Ph. D. Northern Carolina State; R. M. Hayes, Ph. D. Illinois; W. A. Krueger, Ph. D. Illinois; G. M. Lessman, Ph. D. Michigan State.

**Instructor:** S. M. Rogers, M. L. A. University of Georgia.

**Assistant Professor:** J. G. Graveel, Ph. D. Purdue; J. Logan, Ph. D. Nebraska; G. N. Rhodes, Jr., Ph. D. North Carolina State.

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**Hours Credit**

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<thead>
<tr>
<th>Freshman</th>
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<tbody>
<tr>
<td>Agriculture 101</td>
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<tr>
<td>English 101, 102</td>
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<tr>
<td>Botany 110, 120</td>
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<td>Mathematics 110, 121</td>
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<tr>
<td>Ornamental Horticulture and Landscape Design 310, 330, 340, 370</td>
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<tr>
<td>Botany 321</td>
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<td>Entomology and Plant Pathology 313, 321</td>
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<td>Writing or Speech Elective</td>
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<tr>
<td>Botany 321</td>
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<tr>
<td>Plant and Soil Science 210</td>
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**Junior**

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<td>Entomology and Plant Pathology 313, 321</td>
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<td>Writing or Speech Elective</td>
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<tr>
<td>Ornamental Horticulture and Landscape Design Elective</td>
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</table>

1. General Biology 110, 120 may be substituted for Botany only if taken before entering Ornamental Horticulture and Landscape Design.
2. Students should consult with departmental advisor for suggested electives and suggested course of study.
3. **Total:** 132 hours