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 adviser, head of major department, College Advising Center, or dean of college/school
Fees and Tuition — Office of the treasurer
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Student Academic Calendar for 1976-77

Fall Quarter 1976
- September 17: Orientation (Transfer Students)
- September 20: Orientation (Freshman Students)
- September 20-21: Upperclassman & Graduate Registration
- September 21-22: Freshman and Transfer Registration
- September 23: Classes Begin
- October 27: Drop Deadline
- October 29: East Tenn. Educ. Assoc. (no classes)
- November 13: Homecoming (no classes)
- November 25-27: Thanksgiving (no classes)
- December 7: Classes End
- December 10: Commencement

Winter Quarter 1977
- January 3: Orientation (Transfer & Freshman)
- January 3-4: Registration
- January 5: Classes Begin
- February 8: Drop Deadline
- March 15: Classes End
- March 17: Commencement

Spring Quarter 1977
- March 24: Orientation (Transfer & Freshman)
- March 24-25: Registration
- March 28: Classes Begin
- April 8-9: Easter (no classes)
- May 2: Drop Deadline
- June 7: Classes End
- June 10: Commencement

Summer Quarter 1977
- June 15: Orientation (Transfer & Freshman)
- June 15-16: Registration (First or Both Terms)
- June 17: Classes Begin
- July 4: Independence Day (no classes)
- July 5: Drop Deadline, First Term
- July 19: Classes End, First Term
- July 20: Registration, Second Term
- July 21: Classes Begin, Second Term
- July 21: Drop Deadline, 12-Week Courses
- August 8: Drop Deadline, Second Term
- August 19: Classes End
- August 23: Commencement
The University of Tennessee, Knoxville

Administrative Officers

Chancellor, Jack E. Reese, A.B., A.M., Ph.D.
Executive Assistant to the Chancellor,
Sammie S. Puett, B.S., M.S.
Assistant to the Chancellor, Donald R. Eastman III,
A.B., Ph.D.
Vice Chancellor for Academic Affairs, Walter R. Herndon,
B.S., M.S., Ph.D.
Associate Vice Chancellor for Academic Affairs,
Hardy Liston, Jr., B.S., M.E.A.
Associate Vice Chancellor for Academic Affairs,
Ralph V. Norman, Jr., A.B., B.D., M.A., Ph.D.
Vice Chancellor for Business and Finance,
Stanford R. Bohne, B.A., M.S.
Vice Chancellor for Graduate Studies and Research,
Hilton A. Smith, A.B., A.M., Ph.D.
Vice Chancellor for Planning and Administration,
Luke Ebersole, A.B., A.M., Ph.D.
Assistant Vice Chancellor for Business and
Administration, Betsey B. Creekmore, A.B., M.A.,
M.A.L.S.
Vice Chancellor for Student Affairs, Howard F. Aldmon,
B.S., A.M., E.D.D.
Assistant Vice Chancellor for Student Affairs,
James L. McAuliffe, B.A., M.S.

General Administrative Officers

Athletics, Director, George R. Woodruff, B.S.
Development, Director, J. Barry Brandley, B.A.
Finance, Director, Harold B. Whitehead, B.S., CPA
Graduate Studies, Dean, Margaret N. Perry, B.S., M.S., Ph.D.
Physical Plant, Director, C.T. Nunley, B.S., P.E.
Public Relations, Director, David H. Lauver, B.S.
Research, Dean, Carl O. Thomas, A.B., M.A., Ph.D.
Student Affairs:
Admissions and Records, Dean, John J. McDow,
B.S., M.S., Ph.D.
Auxiliary Enterprises, Director, James L. McAuliffe,
B.A., M.S.
International Student and Cultural Affairs, Director,
Dixon C. Johnson, B.S., M.A., Ph.D.
Student Activities, Director, Philip A. Scheurer, B.A.,
M.S.
Student Conduct and Orientation, Dean,
Charles R. Burchett, B.S., M.A.
Student Counseling Center and Special Services,
Director, Richard L. Nash, B.A., M.S., E.D.D
Student Health Service, Administrator,
Fred E. Young, Jr., A.B., M.C.

Colleges and Schools

AT KNOXVILLE
Graduate School
Vice Chancellor for Graduate Studies and Research,
Hilton A. Smith, A.B., A.M., Ph.D.
Institute of Agriculture
Dean, College of Agriculture, O. Glen Hall,
B.S., M.S., Ph.D.
Dean, College of Veterinary Medicine,
Willis W. Armistead, D.V.M., M.S., Ph.D.
School of Architecture
Dean, Donald D. Hanson, B.Arch., M.Arch.
College of Business Administration
Dean, John B. Ross, B.S., M.B.A., Ph.D.
College of Communications
Dean, Donald G. Hileman, B.S., M.S., Ph.D.
Division of Continuing Education
Dean, Joseph P. Goddard, B.S., M.S., Ed.D.
College of Education
Dean, James D. McComas, B.S., M.S., Ph.D.
School of Health, Physical Education, and Recreation
Director, Madge M. Phillips, B.S., M.S., Ph.D.
College of Engineering
Dean, and Director of Engineering Experiment
Station, Fred N. Peebles, B.S. in C.H.E., M.S., Ph.D.
College of Home Economics
Dean, Lura M. Odland, B.S., M.S., Ph.D., D.Sc.
College of Law
Dean, Kenneth L. Penegar, A.B., J.D., LL.M.
College of Liberal Arts
Dean, Alvin H. Nielsen, A.B., M.S., Ph.D.
School of Library and Information Science
Director, Gary R. Purcell, A.B., M.L.S., Ph.D.
School of Nursing
Dean, Sylvia E. Hart, B.S.N., M.S.N., Ph.D.
School of Planning
Director James A. Spencer, A.B., M.C.P.
School 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, James E. Hiteshew,
B.G.E., M.A.Ed., Colonel, USAF.
Army Reserve Officers’ Training Corps
Professor of Military Science, William D. Guinn, Jr.,
B.S., M.B.A., Colonel, USA

AT OAK RIDGE
Oak Ridge Graduate School of Biomedical Sciences
Director, Daniel Billen, B.S., M.S., Ph.D.

AT TULLAHOMA
Space Institute
Dean, Charles H. Weaver, B.S., M.S., Ph.D.

Other Educational and
Public Service Units
Division of International Education
Director, Dixon C. Johnson, B.S., M.A., Ph.D.
Libraries
Director, Donald R. Hunt, B.A., M.A., M.A.L.S.
THE UNIVERSITY OF TENNESSEE BOARD OF TRUSTEES

Legal Title: The University of Tennessee

<table>
<thead>
<tr>
<th>From Congressional Districts</th>
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<td>Student Member</td>
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**Officers of the Board**

Governor Ray Blanton, Chairman  
Tom Elam, Vice Chairman  
Edward J. Boling, President  
Brodie Baynes, Treasurer  
Beauchamp E. Brogan, Secretary  
Katherine S. Jacobs, Assistant Secretary
Committees
The President is a member ex-officio of all standing committees.
Executive: York (Chairman), Fisher (Vice Chairman), Bowyer, Laughlin.
Finance and Business: Laughlin (Chairman), Elam, Raulston.
Buildings and Grounds: Fisher (Chairman), Kinser (Vice Chairman), Bevins, Douglass, Winchester, York.
Agriculture: York (Chairman), Douglass (Vice Chairman), Fisher, Laughlin, Shadow, Stewart, Commissioner of Agriculture.
Athletics: Elam (Chairman), Bowyer, Furrow, Raulston, York.
Medical Affairs: Bowyer (Vice Chairman), Bevins, Evans, Furrow, Laughlin, McDowell, Stewart, Winchester.
Student Affairs: Laughlin (Chairman), Furrow (Vice Chairman), Bevins, Edwards, Fisher, McReynolds, Raulston, Shadow, Commissioner of Education.
Public Service and Continuing Education: Raulston (Chairman), Stewart (Vice Chairman), Bevins, Evans, Kinser, McDowell, McReynolds, Winchester.
Faculty and Staff Affairs: Douglass (Chairman), Shadow (Vice Chairman), Bevins, Bowyer, Brown.

THE UNIVERSITY OF TENNESSEE
ADMINISTRATION AND SERVICE
President, Edward J. Boling, B.S., M.S., Ed.D.
Executive Vice President, Vice President for Development, and Vice President for Business and Finance, Joseph E. Johnson, A.B., A.M., Ed.D.
Vice President for Academic Affairs, John W. Prados, B.S., M.S., Ph.D.
Vice President for Agriculture, Webster Pendergrass, B.S.A., M.S., D.P.A.
Vice President for Continuing Education, Charles H. Weaver, B.S., M.S., Ph.D.
Vice President for Health Affairs, and Chancellor of the Center for the Health Sciences, T. Albert Farmer, B.S., M.D.
Vice President for Public Service and Acting Chancellor, UT Nashville, Charles E. Smith, B.S., A.M.
General Counsel, Beauchamp E. Brogan, B.S., LL.B., J.D.
Executive Assistant to the President, Andrew J. Kozar, B.S., A.M., Ph.D.
Treasurer, Brodie Baynes, B.S., CPA

Emeriti Administrators:
Emeritus President, Andrew David Holt, A.B., M.S., LL.D., LITT.D., SC.D., PH.D.
Emeritus Vice President for Business and Finance, W. Harold Read, B.S., M.B.A., CPA.
Emeritus Vice President for Academic Affairs, Herman E. Spivey, A.B., A.M., PH.D.
Emeritus Vice President for Academic Affairs, Kenneth L. Knickerbocker, A.B., A.M., PH.D.
The University

The University of Tennessee is a multi-campus, multi-purpose system of higher education encompassing all Tennessee. It is the state's official State University and Federal Land-Grant Institution — frequently called "the capstone of the state's educational system." The Institution is owned and supported by the people of Tennessee. It also receives some federal support for certain programs sponsored cooperatively by the state and federal governments.

The central administrative staff consists of the president and six vice presidents who have the responsibility of administering the affairs of the statewide educational organization. The five primary campuses are under the direct supervision of chancellors.

In carrying out its unique responsibilities, The University of Tennessee has a statewide mission beyond the scope of any other institution of higher learning in Tennessee. The University seeks to develop human and material resources of the state through three broad programs: instruction, research, and extension and public service.

Instruction

The most comprehensive institution in the state's public education system, the University has the responsibility of providing the young people of Tennessee with the educational opportunities they need to become intellectually prepared for responsible and successful citizenship. Students may specialize in a great number of professional and occupational fields, thus helping to fill the state's needs for trained personnel in medicine, business, law, agriculture, industry, and other vocations essential to the welfare and progress of the citizens of Tennessee.

In addition to fulfilling this traditional role, the University also offers a wide range of quality programs in continuing education which helps contribute to the personal and professional growth of students of all ages.

Programs of Study

In student enrollments and the scope of its academic programs, The University of Tennessee ranks among the larger institutions of higher education in the United States. In the fall of 1975, a total of 49,082 students enrolled on the five campuses of The University of Tennessee System. This total included 29,999 enrolled at Knoxville and Centers; 2,594 at the Center for the Health Sciences (Memphis); 5,188 at Martin; 5,608 at Chattanooga; and 5,493 at Nashville.

To serve the academic needs of all of these students, the University system offers 106 degree programs at the bachelor's level, 121 at the master's level, and 154 at the doctoral level. The degree programs offered by colleges and schools at the UT, Knoxville campus are described in this catalog. Degree programs offered by the Center for the Health Sciences (at Memphis) and at Martin, Chattanooga, and Nashville are described in special catalogs issued from those campuses.

The various colleges, departments, and administrative offices of the University hold membership in more than 60 regional and national education associations. The University as a whole is fully accredited by the Southern Association of Colleges and Schools. Individual colleges and departments are accredited by appropriate professional accrediting agencies.

Colleges and Schools

The University's academic programs consist of twenty-eight colleges and schools which offer studies on five primary campuses at Knoxville, Memphis, Martin, Chattanooga, and Nashville. The Knoxville campus also offers programs at Oak Ridge, Tullahoma, Memphis, and Kingsport. These colleges and schools and other academic units are as follows:

UT, KNOXVILLE
Graduate School (offering programs leading to the master's or the doctor's degree)

College of Agriculture
School of Architecture
College of Business Administration
College of Communications
Division of Continuing Education
College of Education
School of Health, Physical Education, and Recreation
College of Engineering
College of Home Economics
College of Law
College of Liberal Arts
Graduate School of Library and Information Science
School of Nursing
Graduate School of Planning
Graduate School of Social Work
College of Veterinary Medicine

At Oak Ridge
Oak Ridge Graduate School of Biomedical Sciences
Oak Ridge Evening School
Oak Ridge Resident Graduate Program

At Tullahoma
Space Institute

At Memphis
Joint University Center — MSU/UT

At Kingsport
Graduate Center

At Chattanooga
Graduate Engineering Center

UT CENTER FOR THE HEALTH SCIENCES

At Memphis
College of Basic Medical Sciences
College of Community and Allied Health Professions
College of Dentistry
College of Medicine
College of Nursing
College of Pharmacy
Graduate School — Medical Sciences
Other academic units associated with the Center for the Health Sciences
At Knoxville
UT Memorial Research Center and Hospital
Clinical Education Center

UT AT MARTIN
School of Agriculture
School of Business Administration
School of Education
Department of Engineering and Engineer-
Technology
School of Home Economics
School of Liberal Arts
Department of Military Science
Department of Nursing
Division of Extended Services

UT AT CHATTANOOGA
College of Arts and Sciences
College of Professional Studies
Engineering Division
Graduate Division
Continuing Education and Public Service

UT AT NASHVILLE
Undergraduate degrees offered in arts and
sciences, business administration, education,
engineering, and nursing; graduate degrees
offered in business administration; graduate
studies offered, in conjunction with the
Knoxville campus, in engineering and public
administration. All programs except nursing
offered primarily in evenings.

Faculty
A highly competent faculty is the most
essential quality of a strong institution of
higher education. The University of
Tennessee has a distinguished group of
faculty members, nationally recognized for
scholastic and professional achievements.
The educational policies of the institution
are established by the Faculty. It determines
the entrance requirements for students,
prescribes and defines courses of study,
establishes the requirements for degrees,
determines rules for the academic guidance
of students, and recommends to the
Administration the candidates for degrees
who have completed prescribed courses of
study.
The Faculty elects a representative body
called the Senate, which transacts most of its
business. The Senate holds those powers and
duties delegated to it by the Trustees and by
the Faculty of the University.

Extracurricular Opportunities
In addition to a broad scope of specialized
studies, the University offers numerous
extracurricular opportunities that contribute
to educational development. Students may
take part in religious activities, social and
cultural programs, and recreational and
vocational activities. More than two hundred
different extracurricular organizations and
activities are maintained on the University's
Knoxville campus.

Research
As Tennessee's most broadly based
institution of higher education, the University
has the skilled personnel, the laboratories and
libraries needed for its role as the state's
official research center. University research
is conducted to find solution to problems
confronting the people of Tennessee, and to
discover new knowledge leading to greater
development of human and material
resources.

Funding of sponsored research at the
University totaled a record $26.7 million in
fiscal year 1975. This growth in the dollar
value of grants and contracts parallels growth
in the quality and diversity of research
programs of importance to the Volunteer
State and the entire nation. Increased crop
yields, improved industrial processes, more
effective medical services, and greater citizen
understanding of our environment and our
society are but a few of the benefits resulting
from the practical applications of University
research.

Research Organizations
The University's research is strengthened
by a number of special organizations, within
the colleges and schools, which sponsor and
coordinate studies and experimentation in
broad areas of investigation. These are:
Agricultural Experiment Station (with
research units at Knoxville, Oak Ridge, and
Martin; six branch stations at Crossville,
Greeneville, Jackson, Lewisburg, Springfield,
and Spring Hill; and five field stations at
Grand Junction, Wartburg, Chattanooga,
Tullahoma, and Milan.)
Bureau of Educational Research and
Service
Engineering Experiment Station
Center for Business and Economic
Research
Bureau of Public Administration
Memorial Research Center and Hospital
at Knoxville
Center for the Health Sciences at
Memphis — all divisions have
organized research programs.
Water Resources Research Center
The Graduate School — embraces almost all
departments in all colleges, is founded upon
research; graduate students are required to
do research as part of their study programs.

Extension and Public Service
The University's teaching programs and
research findings extend beyond the limits of
the campuses to reach people in every
community and county in Tennessee.
Extension and public service programs are
part of the work of every University
department, and the institution has three
large divisions created specifically to
promote and coordinate statewide activities
to meet the need that can be served by its
educational resources. These special
divisions are:
Agricultural Extension Service,
The University of Tennessee, Knoxville

Main Campus:
1. Ayres Hall
2. South College
3. Dabney Hall & Buehler Hall
4. UTK Personnel Office
5. A.F. University Office
6. Geology and Geography Bldg.
7. Physics Building
8. Hester Biology Building
10. Turner House
11. Alumni Memorial Auditorium—Gymnasium
12. Neyland Stadium
13. Berry Hall
14. Estabrook Hall
15. Blount Hall
16. Perkins Hall
17. Ferris Hall
18. Dougherty Engineering Bldg.
19. White Avenue Building
20. Nursery School
21. Family Life Center
22. Harris Home Economics Bldg.
23. Psychological Service Center
24. Hopkins Library (Main Library)
25. Estes Kefauver Memorial Wing
26. Craft House
27. Planning School Annex
28. Taylor Law Center
29. Planning School
30. Panhellenic Building
31. Alumni Hall
32. Temple Court
33. Student Affairs Building
34. Carolyn P. Brown Memorial University Center
35. Student Clinic & Hospital
36. UT Credit Union
37. School of Social Work
38. Glueck Business Administration Building
39. Andrew Holt Tower
40. Clayton Education Building
41. Hearing and Speech Center
42. Communications and Extension Building
43. Student Services and Administration Building
44. Andrew Holt Tower Parking Garage
45. McClung Museum
46. Humanities Center/McClung Tower
47. John C. Hodges Undergraduate Library
48. Art Center
49. Dunford Hall
50. Greve Hall
51. Henson Hall
52. Pedestrian Overpass
53. Strong Hall—University Cafeteria
54. Clement Hall
55. Design House
56. Massey Hall
57. Religious Center(s)
58. Kappa Sigma
59. History Annex
60. Melrose Hall
61. Hess Hall
62. Clarence Brown Proscenium Theatre
63. Carousel Theatre
64. Gibbs Hall
65. Power Plant
66. Army Reserve Training Center
67. William B. Stokely Athletics Center
68. Music Building
69. University Architect's Office
70. Tom Black Track & Recreation Area
71. Phi Sigma Kappa
72. Kappa Alpha
73. Sigma Alpha Epsilon
74. Alpha Tau Omega
75. Sigma Chi
76. Pi Kappa Alpha
77. Sigma Nu
78. Pi Sigma Phi
79. Sigma Phi Epsilon
80. Phi Gamma Delta
81. Alpha Gamma Rho
82. Delta Tau Delta
83. Lambda Chi Alpha
84. Physical Plant
85. Motor Pool

Agricultural Campus:
86. Safety and Security
87. Purchasing Agent
88. Student Aquatic Center
89. Morrill Hall
90. Humes Hall
91. Presidential Court Building
92. Reese Hall
93. Carnall Hall
94. Apartment Residence Hall
95. Grounds Department
96. Briscoe House (Economics Research)
97. Fine Arts Buildings
98. Nuclear Engineering Building
99. Physical Plant (Sheet Metal Shop) and Ecological Department
100. Arts & Crafts House—1804 Laurel Ave.
101. Safety Building-2111 Terrace Ave.
103. Southern Regional Media Center for Deaf-1814 Lake Ave.
104. Reading Center-1912 Terrace Ave.
105. Tennessee Research Coordination Unit-900 Moutcastle St.
106. Technical Assistance Center—907 Moutcastle St.
107. UT Learning Center-2019 Terrace Ave.
109. Rehabilitation Counselor Education—2109 Terrace Ave.
110. Omega Psi Phi
111. Acacia
112. Alpha Kappa Lambda
113. Alpha Epsilon Pi
114. Phi Delta Theta
115. Phi Kappa Psi
116. Phi Kappa Tau
117. Chi Phi
118. Delta Upsilon
119. Delta Phi Alpha
120. Pi Kappa Phi
specializing in agriculture and home economy, sponsored jointly by the U.S. Department of Agriculture. Agents to assist farmers and homemakers are stationed in every Tennessee county. District Offices are maintained at Chattanooga, Cookeville, Jackson, Knoxville, and Nashville.

Division of Continuing Education, which serves in non-agricultural areas of education. The Division's statewide services are effected through its Center for Extended Learning, Home Demonstration Service, Library Services, Radio Services, Teaching Materials Center, and Television Services.

Knoxville, extends academic programs and services from UT to persons throughout the state through its Evening School, Off-Campus Credit Programs, Workshops and Non-Credit Programs, and Office of Conferences and Institutes. The Division utilizes services of the statewide Division of Continuing Education and cooperates with all other campuses of the University in statewide extension activities.

The University's Public Service, which provides a system-wide focal point for the University's programs in the fields of industry, government, and urban development. Units of the Institute are the Municipal Technical Advisory Service, the Knox County Technical Assistance Service, the Center for Government Training, the Center for Industrial Services, the Civil Defense Education Program, the Technical Assistance Center, and the State Agency for Title I, Higher Education Act of 1965. In addition, the Institute jointly supports with UT Knoxville two specialized research and service units, the Environment Center and the Transportation Center.

Physical Facilities of the University

The University of Tennessee's physical plant — its land, buildings, and equipment — has a book value in excess of $372,791,000. A total of 160 buildings on 1,435 acres of land, more than 62,619,000 worth of equipment, about $11,000,000 worth of books, and hundreds of small buildings and miscellaneous items constitute the physical plant.

The Knoxville campus is valued at approximately $153,729,000 and the Memorial Research Center and Hospital at $16,829,000. Facilities of the Center for the Health Sciences at Memphis are valued at approximately $43,756,000; the Martin campus, $37,100,000; the Chattanooga campus, $30,100,000; and the Nashville campus, $5,130,000. Facilities at the Tullahoma Space Institute are valued at $3,208,000. Experimental farms, livestock, and other facilities throughout the state have a value of $61,182,000.

Buildings on the main campus and agriculture campuses at Knoxville are shown on the map printed in this catalog. A map of the state showing locations of the University's academic programs and other physical facilities is located on page 9. Maps or aerial photographs showing buildings on the Center for the Health Sciences campus at Memphis and the Martin and Chattanooga campuses are printed in the catalogs issued by those units of the University.

Historical Background

The University of Tennessee traces its origin 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 at Knoxville. 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. Blount College also had other unusual qualities. It was strictly nonsectarian in character, which was unique among institutions of higher education in that day. The institution has remained nonsectarian from its inception.

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. In 1860, Blount College for a few years admitted women as students, thus becoming the first co-educational college in the United States, though it was only for a time that its first co-eds studied in a sub-collegiate department. The institution later restricted enrollment to men, but reverted to its present co-educational status in 1892.

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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 selection meant the establishment of an Agricultural and Mechanical College as part of the University, supported by an endowment resulting from the sale of land warrants received by Tennessee from the Federal Government. Thus the efforts of the institution to broaden its offerings from a college to a true university were given a tremendous boost.

Ten years later, in 1879, East Tennessee University was chosen by the State Legislature as Tennessee's State University, and its charter was amended to read "The University of Tennessee." By this act the University became pledged to the service and interest of the entire state, the head and an integral part of the public education system. By this act the state pledged to the University its own name and reputation and promised the institution a future in keeping with the prestige of the state.

Since its establishment the University has grown into an institution consisting of twenty-three different colleges and schools, and it has become statewide in its physical location 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 Tennessee 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 1969 with the merger of the University of Chattanooga. In 1971 the University's Nashville Center, established in 1947, was made the fifth primary campus. Down through the years Agricultural Experiment Stations were established at Jackson, Spring Hill (Columbia), Springfield, Lewisburg, Crossville, Wartburg, Oak Ridge, Greeneville, and Grand Junction. The system Division of Continuing Education coordinates all continuing education programs offered by the five primary campuses, and the Division of Continuing Education, Knoxville, conducts evening classes, conferences, and institutes for the Knoxville campus. The Agricultural Extension Service has district offices at Jackson, Nashville, Cookeville, Chattanooga, and Knoxville and has agricultural extension leaders and agents in every one of Tennessee's ninety-five counties.

In 1968 the Board of Trustees reorganized the institution into a university system, giving a central administrative staff responsibility for the entire statewide functions of the University and establishing the University on the primary campuses, responsible for their respective campuses.

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 Tennessee. As a result, the University has been able to broaden and strengthen its programs to meet the educational and research needs of the people of Tennessee and has become one of the leading institutions of higher education in the nation — an institution with international prestige.

Academic Policies and Costs

*Any and all course offerings, academic requirements, and other information contained in this publication are subject to change and/or revocation without notice. See page 2 for sources of current information.

Admission to the University of Tennessee, Knoxville

Applications, credentials, and inquiries should be directed as follows:

For admission to all undergraduate programs, including the University Evening School:

Director of Admissions
The University of Tennessee
Knoxville, Tennessee 37916
(615) 974-2184
For re-admission of former undergraduate students:
The University of Tennessee
Knoxville, Tennessee 37916

For admission to the College of Law (see College of Law Bulletin for information on admission to the College of Law):
Dean, College of Law
The University of Tennessee
Knoxville, Tennessee 37916

For admission to the Graduate School (see Graduate School Catalog for information on admission to the Graduate School):
Graduate School
The University of Tennessee
Knoxville, Tennessee 37916
(615) 974-3251

For admission to the Colleges of Basic Medical Sciences, Dentistry, Medicine, Nursing (except Knoxville School of Nursing), and Pharmacy, and programs in the allied health professions, administered by The University of Tennessee Center for the Health Sciences in Memphis (see Health Sciences Catalog for information on admission to these colleges):
Director of Admissions
The University of Tennessee
Center for the Health Sciences
62 South Dunlap
Memphis, Tennessee 38103

Deadlines for Applications
Applications for undergraduate admission and all supporting credentials must be received by the Director of Admissions no later than August 1 for Fall Quarter admission, and no later than three weeks before the start of classes for admission to any other quarter, except as noted below.

Applications for Veterinary Medicine must be received by the Director of Admissions by February 1 for admission into the Fall Quarter. Applications for the School of Architecture must be received no later than March 1 for admission to the Summer and Fall Quarters. Selection will be made by March 15. November 1 is the deadline for applications for the Spring Quarter. Applications for the School of Nursing must be received by March 1. Selection will be made by March 15.

Former students who have been dropped from the University for academic deficiency or disciplinary reasons must apply for readmission to the Director of Admissions no later than six weeks before the start of classes of the quarter the student wishes to enter.

Undergraduate Admissions Requirements
Applicants for undergraduate admission to the University must meet the following:
1. general requirements as indicated below;
2. requirements for the applicant’s specific admissions category as shown in Table I, and
3. requirements of the academic college or school the applicant seeks to enter as shown in Table II.

ACADEMIC CREDENTIALS
Freshman Applicants — Transcript of high school credits and score report of the American College Test Program (ACT). These should be received at the University preferably in the fall of the senior year; a supplementary high school credit sheet of final senior grades should be sent after graduation.

ACT tests are administered five times each year, in October, December, February, April and July. Scores reports must be sent directly from ACT to the University. Information concerning ACT may be obtained from high school guidance counselors or by writing American College Testing Programs, P.O. Box 168, Iowa City, Iowa 52240.

Transfer Applicants — Complete transcripts of all college work at each college or university attended.

EVIDENCE OF GOOD CHARACTER
Freshman Applicants — Recommendation of high school principal.

Transfer Applicants — Character report from college student personnel officer(s).

AMERICAN HISTORY
All Applicants — Effective July 1, 1978 and afterwards, all students receiving a bachelor's degree must have completed a course in American history at the high school level or nine quarter hours of collegiate American history in order to receive a bachelor's degree as required by the General Assembly of the State of Tennessee.

Residency
Students are classified as in-state or out-of-state for the purpose of determining fees and tuition on the basis of regulations established by the Board of Trustees. Basically, these regulations state that: (1) students receiving support from their parents are residents of the same state as their parents, and (2) students independent of parental support may establish Tennessee residency for fee purposes by producing evidence of domicile to the University's satisfaction, proving that they came to Tennessee for reasons other than obtaining an education or to help their relatives or their spouses. A student's residency classification for fee purposes determines whether the student will be considered under in-state or out-of-state admissions requirements. Children of alumni or scholarship recipients are admitted under the same requirements as in-state students, even though they may be required to pay out-of-state tuition. Inquiries concerning residency should be addressed to the Director of Admissions.

Admission to the University's professional programs (health professions [see p. 161], law, etc.) is becoming increasingly restricted to Tennessee residents. An out-of-state student completing a pre-professional program at the University of Tennessee, Knoxville does not gain preferential priority in admission to a professional program.

High School Subjects That May Be Offered

<table>
<thead>
<tr>
<th>Group A</th>
<th>MAXIMUM UNITS</th>
<th>MAXIMUM UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra</td>
<td>2.5</td>
<td>General Business</td>
</tr>
<tr>
<td>Art</td>
<td>3</td>
<td>General Mathematics</td>
</tr>
<tr>
<td>Bible</td>
<td>1</td>
<td>General Science</td>
</tr>
<tr>
<td>Biology</td>
<td>3</td>
<td>German</td>
</tr>
<tr>
<td>(Botany &amp; Zoology)</td>
<td>2</td>
<td>Greek</td>
</tr>
<tr>
<td>Bookkeeping</td>
<td>1</td>
<td>Health Education</td>
</tr>
<tr>
<td>Business Arithmetic</td>
<td>1</td>
<td>History</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group B</th>
<th>MAXIMUM UNITS</th>
<th>MAXIMUM UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>4</td>
<td>Other subjects accepted</td>
</tr>
</tbody>
</table>
| Education | 2 | for high school gradu-
| Distributive | 2 | ation, each field |
| Engineering | 2 |  |
| drawing | 2 | Physical Education |
| Home Economics | 4 | RTG.            |
| Shopwork | 2 | Music Harmony |

Units — Entrance requirements are stated in terms of units. A unit represents nine months of study in a subject in a secondary school, constituting approximately a quarter of a full year's work. A four-year secondary school curriculum should be regarded as representing sixteen units of work as a minimum.

Unit Requirements — For admission sixteen units, with high school graduation, are required as specified on the following pages. Graduates of Tennessee high schools must present one unit in American history or take a comparable course during the first year in college, with college credit.

Unit Requirements for Individual Programs

A number of programs offered by the University require specific high school units for admission beyond the general University admissions requirements. These are shown in Table II.

Unclassified Students. Students who meet University admissions requirements but do not meet the specific unit requirements of the programs they seek to enter may be admitted as unclassified students. They will be assigned special advisers in the college they plan to enter. Students so admitted should remove entrance deficiencies as soon as possible, and in no event later than one year following enrollment. Students who have not removed entrance deficiencies by the start of their third year in college will not be allowed to continue at the University.

Special Requirements for International Students

In making application for admission to undergraduate study, each international student will be 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. Undergraduate international students whose native language is not English must present a score of at least 475 on the Test of English as a Foreign Language (TOEFL) before being admitted. The test results should
### TABLE I

ADMISSIONS REQUIREMENTS FOR SPECIFIC CATEGORIES

<table>
<thead>
<tr>
<th>Admissions Category</th>
<th>Admissions Requirements¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRESHMAN In-State</td>
<td>Graduation from an approved high school; completion of all high school units required for the program student seeks to enter, as specified in Table II; applicants not having a high school grade point average of at least 2.25 nor an ACT composite score of at least 17 will be assigned a special adviser. ACT score report is required for counseling and advisement.</td>
</tr>
<tr>
<td>FRESHMAN Out-of-State</td>
<td>Same as for in-state freshman except that applicants from states in the region served by the Southern Association of Colleges and Schools, and from Arkansas, must have minimum high school grade point average at least 2.25 and ACT composite score at least 18. Applicants from other states must have high school grade point average at least 2.25 and ACT composite score at least 20.</td>
</tr>
<tr>
<td>FRESHMAN — GED</td>
<td>Applicant’s high school class must have graduated; must be at least 18 years old; average standard score of at least 50 on the high school level General Education Development Tests; completion of high school units required for the program student seeks to enter, as specified in Table II.</td>
</tr>
<tr>
<td>FRESHMAN — EARLY ADMISSION</td>
<td>Completion of junior year in high school; completion of high school units required for the program student seeks to enter; high school grade point average at least 3.50 and ACT scores at or above the 95th percentile for University of Tennessee freshmen; nomination by the student’s high school principal and consent of parents; review and approval by the Director of Admissions.</td>
</tr>
<tr>
<td>TRANSFER In-State</td>
<td>At least 12 hours of college credit work at an accredited institution of higher learning; honorable dismissal from all such institutions attended; grade point average on all college work attempted, at least the minimum that the University of Tennessee requires of its own students for readmission (see Undergraduate Academic Continuation, page 18 of this catalog)².</td>
</tr>
<tr>
<td>TRANSFER Out-of-State</td>
<td>Same as for in-state transfer applicants except that grade point average on all college work must be at least 2.00 to be eligible for consideration. Eligible students will be screened by the Committee on Admissions for final decision.²</td>
</tr>
<tr>
<td>SPECIAL STUDENT</td>
<td>Applicant’s high school class must have graduated; may not be candidate for bachelor’s degree; must show satisfactory evidence of preparation for courses attempted. Special students may accumulate no more than 90 hours of college credit toward a degree (including any previous college work). To enroll in a degree program, a special student must meet transfer admissions requirements. Former University of Tennessee students may not be admitted as special students unless they have already earned a bachelor’s degree.</td>
</tr>
</tbody>
</table>

¹Grade point averages are expressed on a 4.00 scale. ²Transfer applicants for the School of Architecture must have a college grade point average of 2.30. Transfer applicants for the College of Communications must have an average of at least 2.00. Transfer applicants who have attempted at least 36 quarter hours of college work must have grade point averages of at least 2.00 for admission to the College of Education, the College of Business Administration or the College of Home Economics.
<table>
<thead>
<tr>
<th>College/Degree Sought</th>
<th>English</th>
<th>One Foreign Language</th>
<th>Algebra</th>
<th>Trigonometry</th>
<th>Geometry</th>
<th>Advanced Math or Trigonometry</th>
<th>Science or Humanities</th>
<th>Minimum 4 Units Group A Units</th>
<th>Total Units</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>COLLEGE OF AGRICULTURE</td>
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<tr>
<td>Bachelor of Science in Agriculture</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td></td>
<td>11</td>
<td>16</td>
<td></td>
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<td></td>
<td>A second unit of algebra may be offered in lieu of geometry.</td>
</tr>
<tr>
<td>Bachelor of Science in Agricultural Engineering</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>.5</td>
<td>11</td>
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<td>SCHOOL OF ARCHITECTURE</td>
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<tr>
<td>Bachelor of Architecture</td>
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<td>5</td>
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<td>These units allow admission to first-year pre-architectural program. Ad-</td>
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<td>mission to the second year requires: (1) satisfactory completion of first</td>
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<td>year architectural program with grade point average at least 2.3, ex-</td>
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<td>ceptions may be made by petition only; (2) a personal interview and</td>
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<td>evaluation of applicant’s work by a designated member of the School of</td>
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<td>Architecture, (3) application to the School of Architecture no later than</td>
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<td>June 15 preceding the start of the second year.</td>
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<td>COLLEGE OF BUSINESS ADMINISTRATION</td>
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<tr>
<td>Bachelor of Science in Business Administration</td>
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<td>A unit of advanced mathematics or trigonometry may be offered in lieu of</td>
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<td>the second unit of algebra or the unit of geometry.</td>
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<td>COLLEGE OF COMMUNICATIONS</td>
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<tr>
<td>Bachelor of Science in Communications</td>
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<td>1</td>
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<td>12</td>
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<td>A second unit of algebra may be offered in lieu of geometry.</td>
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<td>COLLEGE OF EDUCATION</td>
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<tr>
<td>Bachelor of Science in Education</td>
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<td>COLLEGE OF ENGINEERING</td>
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<tr>
<td>Bachelor of Science in Engineering</td>
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<td>Three units of science, including physics, are recommended.</td>
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<td>COLLEGE OF HOME ECONOMICS</td>
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<td>Bachelor of Science in Home Economics</td>
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<tr>
<td>COLLEGE OF LIBERAL ARTS</td>
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<tr>
<td>Bachelor of Arts; general and pre-professional curricula</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>13</td>
<td>16</td>
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<td>A second unit of algebra may be offered in lieu of geometry. See College</td>
</tr>
<tr>
<td>Bachelor of Fine Arts</td>
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<td>of Liberal Arts Section, page 159, for discussion of language require-</td>
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<td>Bachelor of Music</td>
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<td>Two-year pre-dentistry, pre-medical technology, and</td>
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<td>pre-physical therapy programs</td>
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<tr>
<td>Bachelor of Science in Chemistry</td>
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<td>2</td>
<td>1.5</td>
<td>1</td>
<td>13</td>
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<td>A second unit of algebra may be offered in lieu of geometry; a unit of</td>
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<tr>
<td>Two-year pre-pharmacy program</td>
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<td>13</td>
<td>16</td>
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<td>history or social science is required.</td>
</tr>
<tr>
<td>Two-year pre-nursing program</td>
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<td></td>
<td></td>
<td>A second unit of algebra may be offered in lieu of geometry.</td>
</tr>
<tr>
<td>SCHOOL OF NURSING (Knoxville)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Nursing</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td></td>
<td>13</td>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td>A second unit of algebra may be offered in lieu of geometry. One unit of</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>chemistry is recommended.</td>
</tr>
</tbody>
</table>
be sent by Educational Testing Service to the Director of Admissions. Final consideration cannot be granted until test results are received by the Director of Admissions.

At registration each student is assigned to a member of the faculty, who acts as the student's adviser. The duties of the adviser are to assist the student in selecting subjects to ensure adequate education, and to aid the student in interpreting the University's requirements. The responsibility for the selection of courses rests, in the final analysis, upon the student, and it is not the province of the adviser to refuse approval of a course which the student elects. Similarly, it is the full responsibility of all students to meet the requirements of their courses of study in their proper order, so that they may not in the senior year find themselves ineligible for graduation. At the opening of each quarter students are urged to consult their advisers concerning their choice of studies. They are also urged to confer with their advisers frequently during each quarter. Students also have the privilege of consulting with the Dean of their college. All beginning students, and former students whose grade point averages are below 2.0 must obtain a written approval of their course selections at registration.

The Colleges of Business Administration, Education, and Liberal Arts have established advising centers where students may go at any time for advice on academic matters. The Student Counseling Center, Temple Court, is available to any student desiring help with individual or personal problems. Facilities are also available for improving reading skills and study habits. Students may go to the Center themselves or they may be referred by members of the faculty.

SENATE BILL 1445

Persons sixty years of age or older, who are domiciled in Tennessee, may audit courses without payment of course fees if space is available in the individual class. Interested persons should inquire at The University Evening School Office during regular office hours.

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT

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

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

TITLE IX

The University of Tennessee does not discriminate on the basis of sex 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. This policy extends to both employment and admission to the University.

Inquiries concerning Title IX should be directed to the Office of the Vice Chancellor for Planning and Administration, Room 506, Andy Holt Tower, 974-4391. Charges of violation of the above policy should also be directed to the Office of the Vice Chancellor for Planning and Administration.

General Academic Regulations

Credit Hours, Grades, and Grade Point Average

The basic unit of credit at The University of Tennessee, Knoxville, is the quarter 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 quarter hours of credit 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 quarter hour of credit in the course. A student's grade point average is obtained by dividing the total number of quality points the student has accumulated by the total number of quarter hours the student has attempted, not including hours for which grades of N, NC, NG, P, S, SI, and W have been received.

Undergraduate students are graded on the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Performance</th>
<th>Per Quarter Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Superior</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>Average</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>Below Average</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0</td>
</tr>
</tbody>
</table>

Graduate students taking courses for graduate credit may also receive grades of B+ (3.5 quality points per quarter hour of credit) and C+ (2.5 quality points per quarter hour of credit). This applies to non-graduate students approved to take graduate courses.

S/NC carries credit hours, but no quality point value. "S" is equivalent to "B" or better, and "NC" means no credit earned. "NC" grades may be repeated for an "S." S/NC is used for courses which culminate in a thesis, dissertation, or preliminary examination. The "N" grade takes on the value of the 'S' when the thesis or dissertation is accepted by the Graduate School. The number of S/NC courses taken in any one term is limited to 1/4 of the course work hours required (excluding thesis or dissertation) in a program. (This would be 11 hours in a 44 hour masters thesis program or 12 hours in a 48 hour non-thesis program or 18 hours in a 72 hour doctoral program."

Law students are graded on a numerical scale from 0.0 to 4.0. Quality points per quarter hour of credit in a given course are equal to the numerical grade received in the course. Grades of 0.5 and below count as failures. Some courses are graded on an S/NC basis.

TEMPORARY GRADES

A student receiving a grade of I or SI
should arrange with the teacher to take whatever action is needed to remove the
grade at the earliest possible date, and in any
event, within two days after the course was
attempted. A student need not be enrolled at
the University to remove a temporary grade.
E (conditional failure) was assigned to a
student whose work was unsatisfactory but
who, in the teacher's judgement, could
remove the deficiency without repeating the
entire course.
I (incomplete) is assigned to a student
whose work is satisfactory but who has failed
to complete a laboratory, shop, or other
parallel exercise. The l carries no quality
points and counts as a failure in the
computation of grade point average until
removed. The grade of I may also be assigned
by any faculty member to students who appear
to be deficient in their usage of
English in the course, but otherwise passing;
the grade of I is removed when the Committee
on Student English certifies to the instructor
that a student has made the necessary
improvements.
SI (incomplete) is assigned when the work
is satisfactory but when a portion of the
course is not completed. The grade is
awarded only in courses where S/NC grading
has been elected. The grade of SI for
incomplete work is recorded as an SI,
which is not computed in the average.
X (absence) indicated a student,
otherwise passing, was absent from the final
examination. This grade was permitted to be
replaced by a T after the final examination the
next time the course was offered or at
the convenience of the instructor.

GRADES THAT DO NOT INFLUENCE
GRADE POINT AVERAGE

The grades of N, NG, P, and W carry no
quality points, but hours on which these
grades are earned are not counted in
computing a student's grade point average.
Hence these grades have no effect on grade
point average.

N (no progress) indicated lack of
progress on an intermediate quarter of a
course approved by the Undergraduate
Council or Graduate Council to extend
beyond one quarter (see P below). At the end of
the quarter, the course will have a final grade
and the total credit hours were
recorded for the course. The grade of N is now
used to indicate lack of progress on a
graduate thesis or dissertation.

NG (no grade) indicated failure to
complete a course satisfactorily when taken
on an S/NC basis.

P (pass) designated a passing grade
without further indication of performance
level. It was awarded to students who took
courses on a pass-fail or pass-no grade basis. The
grade of P also indicated satisfactory
performance on an intermediate quarter of a
course approved by the Undergraduate
Council or Graduate Council to extend
beyond one quarter, as with the grade of N
above. Finally, the grade of P was to indicate
progress on a graduate thesis or dissertation.
S (satisfactory) is assigned for C or better
work when a course is taken on an S/NC
grading basis. For graduate credit, S indicates
B or better work.

SI (incomplete) is assigned in S/NC
grading courses as described above.
W (withdrawal) is assigned in courses
from which a student has officially withdrawn.
Regulations concerning withdrawal from
courses at or beyond the University appear in
the incoming sections of this catalog, entitled
"Changes in Registration."

SATISFACTORY/NO CREDIT GRADING
SYSTEM

The purpose of this system is to encourage
the student to venture beyond the limits of those
courses which he usually does well
and, motivated by his own intellectual
curiosity, explore subject matter in which
performance may be somewhat less
outstanding than work in preferred subject
fields. To this end a Satisfactory/No Credit
(S/NC) system of grading has been
developed for undergraduate courses (1000,
2000, 3000, and 4000 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
better work on the traditional grading scale
and NC is given for less than C work. The
student only elects the course when an S is
received. A student may not repeat a course for
S/NC if the student received a
conventional grade (A, B, C, D, F, or I).
The instructor of a conventionally graded
course will not be familiar with which students,
if any, has elected S/NC grading. If the student
elects nonconventional grading, the
computer converts an A, B, or C to an S and a
D or F to NC. The grade of I for incomplete
work will be recorded as an SI, which will not
be computed in the average. A student is
permitted to change the system of grading in
a course through the add deadline. The grade
W will be applied in the same manner for
either a regular grading system or S/NC
grading. The changing of an S/NC grade to a
regular letter grade or vice versa is not
permitted unless a bona fide error is
determined by the instructor.

REPEATING COURSES

When a course is repeated the last grade
only is counted in computing the grade point
average. All grades are entered on the
permanent record. A student may not repeat
a course more than twice in order to obtain
a better grade.

GRADUATING SENIOR PRIVILEGES

A senior who fails one subject during the
quarter of intended graduation has the
privilege of standing an examination in that
subject at the beginning of or during the
next quarter, and, if successful, receiving
the degree at the next commencement.
A senior who receives the grade of I in any
subject will request to the instructor, be
given the opportunity to remove the
deficiency before the close of the quarter, but
not later than the last day before
commencement, providing that successfully
passing these courses will make him/her
eligible for graduation.

FRESHMAN ENGLISH

English 1510-20 and English 1518-28 are offered on a grade system of A, B, C or No Credit.

ENGLISH PROFICIENCY

Students are expected to maintain a
satisfactory standard of oral and written
English throughout their college programs.
Any student may be reported by a member of
the faculty for examination in English, and, if
found deficient by the Committee on Student
English, be required to take without credit
such further work as the Committee may
direct. To facilitate the reporting of students
deficient in English, faculty members may
simply check the column headed "English" on
the quarterly grade sheets. A student checked
by any faculty member will be required to
remedy the deficiency with work in the
Writing Laboratory. Remedial work in the
laboratory shall be started as soon as possible
after the student has been notified of his
deficiency and shall continue until the
student's performance in English has been
decleared satisfactory by the laboratory
instructor, or both.

Changes in Registration

Mid-Term is an announced date midway
between the beginning and ending days of
classes each quarter or session (35 calendar
days after the beginning of classes, except for
summer sessions). Prior to Mid-Term
undergraduate students may withdraw from
courses as specified below. Providing space is
available and prior to the third meeting of
the class, students may add courses
without the permission of the head of the
department offering the course, or the
instructor whose section the student wishes
to enter. Students may not add courses
after the second meeting of a class
without the permission of the course and the
dean of the college in which the student is
enrolled. All change of sections
must be approved by the department head
or the instructor of the class the student wishes
to enter.

All official withdrawals from the University
are made through the Office of Special
Services. It is important that all students who
leave the University prior to the completion of
a quarter report their withdrawal to this office.

Withdrawing from University before Mid-
Term (35 calendar days). If an undergraduate
student officially withdraws from the
University before Mid-Term (for summer
quarter drop deadlines, see summer quarter
timetable), the grade of W will be
recorded in all courses in which the
student is currently enrolled. In cases of
withdrawal prior to Mid-Term, the Office of
Special Services will verify the date of
withdrawal to the Registrar, who will then
inform the instructors that the
grade in those courses is automatically W.
Graduate students should consult the
Graduate School Catalog for regulations
concerning withdrawal from the University.

Dropping Courses Before Mid-Term (35
calendar days). A course may be dropped
within the add deadline (for summer
quarter drop deadlines, see summer quarter
timetable). A drop form must be
executed by the student and submitted to the
Registrar. Prior to Mid-Term the
instructor's or the advisor's permission is
required. A course dropped during the first
five class days in any quarter will not appear
on the student's permanent record.
Graduate students must consult
the Graduate School Catalog for regulations
concerning the dropping of courses.
days). An undergraduate student withdrawing from a course, or from the University, after Mid-Term will receive the grade of "F" unless it can be clearly demonstrated that one of the following conditions exists:
a. illness or injury of the student as verified by the student health service or private physician;
b. serious personal or family problems as verified by the student's parents, minister, physician, etc.;
c. necessary change in work schedule as verified by the student's employer;
d. change of major, a program in which the course that the student wishes to drop would not normally be used in satisfying degree requirements. Acceptance of the student into the new program should be verified by the dean of the college administering the program;
e. financial inability to continue at the University, or;
f. call to active military service.
A student will not be permitted to drop a course after mid-term simply to avoid a poor grade.
A student wishing to withdraw from a course, or from the University after the withdrawal deadline, must present a request, together with evidence of extenuating circumstances, to the Office of Special Services. If the request is approved, this office will notify the Registrar, who will enter the grade(s) of "W" on the student's permanent record.
Graduate students should consult the Graduate School Catalog for regulations concerning the dropping of courses and withdrawal from the University.

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

Course Numbers

<table>
<thead>
<tr>
<th>Course Level</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000-0999</td>
<td>Non-credit, preparatory</td>
</tr>
<tr>
<td>1000-2999</td>
<td>Lower division — primarily for freshmen and sophomores</td>
</tr>
<tr>
<td>3000-4999</td>
<td>Upper division — primarily for juniors and seniors; usually available for graduate credit; when taken for graduate credit, the letter &quot;G&quot; will precede the course credit hours on the grade report.</td>
</tr>
<tr>
<td>5000-5999</td>
<td>Graduate; sometimes available for undergraduate credit; when taken for undergraduate credit, the letter &quot;U&quot; will precede the course credit hours on the grade report.</td>
</tr>
<tr>
<td>6000-6999</td>
<td>Advanced graduate; open to graduate students only.</td>
</tr>
<tr>
<td>8000-8999</td>
<td>Veterinary Medicine; Law; occasionally open to other qualified students.</td>
</tr>
</tbody>
</table>

To be eligible for upper-division work a student must have attained junior (third-year) status, as defined in the following section, unless approval is granted by the dean of the student's college. This rule applies to transfers, as well as those who have previously attended the University. A cumulative grade point average of at least 2.00 is required to begin upper-division work.

<table>
<thead>
<tr>
<th>QUARTER HOURS PASSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>YEAR</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>First</td>
</tr>
<tr>
<td>Second</td>
</tr>
<tr>
<td>Third</td>
</tr>
<tr>
<td>Fourth</td>
</tr>
<tr>
<td>Fifth</td>
</tr>
</tbody>
</table>

Classification
Undergraduate and law students are classified according to the chart above, on the basis of quarter hours passed. To be considered as a full time undergraduate student in any quarter, a student must be enrolled in 12 quarter hours. (Audit hours are not considered in this computation.) For the summer quarter, an undergraduate student must be enrolled in 6 quarter hours each six-weeks term to be classified as full time for the term.

Teacher Certification
Teacher certification is a responsibility of the College of Education at 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. In keeping with requirements of the Tennessee Department of Education, programs leading to teacher certification include a nine (9) hour requirement in Health or Physical Education.

Honors Courses
Courses specifically designed as honors courses will be designated "Hon." Individuals selected on the basis of ACT scores and previous academic performance may be enrolled. There is no limit on the number of credits that may be earned in these courses except in the senior readings courses not requiring regular class attendance; these senior readings courses may total not more than nine hours credit toward graduation. (In the fields of science offering four-hour courses the total may be twelve hours.) There is also a non-departmental honors course open to a limited number of freshmen entering in any college.

Auditors
Students registered for credit courses may enter classes as auditors, subject to the approval of the instructor whose class is visited. Auditors are under no obligation of regular attendance, preparation, recitation, or examination. They receive no credit. They may not take part in class discussion or laboratory or field work.

Students not registered for credit courses may be admitted as auditors only with the consent of the Director of Admission; they are required to register, pay the fees for auditors, and to have class cards for the courses they elect to attend.

Minimum Class Size
An undergraduate course will not be given for fewer than five students except by permission of the Vice Chancellor for Academic Affairs.

Undergraduate Academic Continuation
To be eligible to continue at The University of Tennessee, Knoxville, an undergraduate student must maintain a cumulative grade point average at or above the minimum acceptable level shown in the chart below. There are additional restrictions in individual programs, such as nursing and architecture, and the appropriate section of this catalog should be consulted.

<table>
<thead>
<tr>
<th>Total Quarter Hours Attempted</th>
<th>Minimum Acceptable Grade Point Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-35.9</td>
<td>1.00</td>
</tr>
<tr>
<td>36-63.9</td>
<td>1.50</td>
</tr>
<tr>
<td>64-149.9</td>
<td>2.00</td>
</tr>
</tbody>
</table>

A student whose grade point average falls below this minimum acceptable level in any quarter will be placed on academic probation for the subsequent quarter. During the probationary quarter the student must attain the minimum acceptable average shown, or a 2.00 average for that quarter, or be dropped from the University.

A student who has attempted over 150 hours will be checked for graduation requirements only, except when on academic probation. Such students, if on academic probation, must attain a cumulative average of 2.00 of a 2.00 for that quarter, or be dropped from the University.

A student who has been dropped, has withdrawn, or has been absent for a quarter other than the summer quarter, must make application for readmission. Readmission is not automatic. Application must be made at least six weeks before registration. The Committee on Readmissions may approve or refuse the application for readmission. Students are strongly encouraged to appear in person before the Committee on Readmissions.

A student who has been previously dropped and readmitted will be placed on academic probation. Failure to meet the regular University standards of retention during the probationary quarter or subsequent thereto will result in the student's being dropped from the University and required to remain out of school for at least three quarters before becoming eligible to apply for readmission.

A transfer student who is conditionally admitted and fails to meet the regular University standards during the probationary quarter or subsequent thereto will be dropped from the University and may not make application for readmission for three academic quarters.
GENERAL POLICIES
A. Any student who attains a quarterly average of 2.00 may continue in residence at the University, even though the cumulative average does not meet the minimum acceptable level above.
B. Summer is considered a regular quarter in determining absence from the University.
C. The quarter hours attempted in determining continuation are used for readmission purposes only. Pass/Fail, Satisfactory/No Credit, and Pass/No Grade hours are included in the hours attempted but excluded in determining minimum cumulative grade point average requirements for retention and graduation.
D. To register for credit or audit courses in any branch, center, or division of the University controlled by the Knoxville campus, a student must meet the admission or readmission regulations that govern courses for credit at the Knoxville campus. Correspondence courses are open to students regardless of admission or readmission status.
E. A student will not be readmitted when the record indicates a very low probability of success in college work. In its review of an application, a Committee on Readmissions shall consider the applicant's total record, including the academic record and other factors which may be expected to influence academic performance.
F. No student refused by the Committee on Readmissions may be permitted to reenter the University without the approval of the Committee.
G. There will be no tentative readmissions.
H. Students in Architecture and Nursing are advised to note the special requirements as stated in those sections of this catalog.

Comment: The University of Tennessee, Knoxville, is committed to helping students overcome academic deficiencies. A letter advising of academic probation will be sent at about the same time as the quarterly grade report. This letter will advise the student to see his/her dean before completing registration for the probationary quarter.

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. It should be noted that some of the Colleges and Schools within the University have special requirements above and beyond those stated here, and students are advised to consult the appropriate section of this catalog for any further degree requirements.

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 requirement courses are listed, 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 accordance with the curriculum requirements.

2. Complete at least forty-five quarter hours beyond the first bachelor's degree.
3. Attend the University for at least three quarters beyond the minimum time required for the first bachelor's degree.

Seniors Eligible for Graduate Credit

A senior at The University of Tennessee, Knoxville, who needs 45 quarter hours or less to complete the requirements for a bachelor's degree, and has at least a 3.00 grade point average, may take sufficient work for graduate credit to fill out a schedule of 15 hours of combined undergraduate and graduate work per quarter, subject to the approval of each quarter of the Vice Chancellor for Graduate Studies and Research.

Correspondence Work

The candidate may offer correspondence as part of the one-third-of-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-third-of-fourth of the total hours required. Correspondence credits are not recognized by the College of Law or — except by prior permission — by the Medical Units.

All courses taken by correspondence for which graduate credit is given must meet degree program requirements of the Knoxville campus. Degree credit will not be granted for correspondence courses taken at an institution other than the University of Tennessee by a UT student if an equivalent correspondence course is available from the University of Tennessee Correspondence program.

A senior may take only nine hours of the last year's work (the last forty-five hours offered for the degree) by correspondence, and this must be taken with The University of Tennessee, Knoxville. If the candidate is a senior transfer, no work may be taken by correspondence or extension.

Students taking work for certification purposes should consult the State Department of Education in the respective states concerning the amount of extension and/or correspondence credit allowed for a teacher's certificate.

Proficiency Examination

Any student may apply for proficiency examinations in selected undergraduate subjects in the Colleges of Agriculture, Business Administration, Education, Engineering, Home Economics, and Liberal Arts, in the School of Nursing (Knoxville), and in the Department of Military Science. A student applying for a proficiency examination should present evidence that he or she has developed those abilities and attitudes expected of students who have taken the course involved. The application must be approved by the department offering the course. A fee of $10.00 will be charged per course. A student who "passes" a proficiency exam is allowed a choice of taking the grade on the exam (A, B, or C) or taking an S as credit in the course. Except to this is when a proficiency course is graded only on an S/NC basis. By taking an S a student would not affect the grade point average. 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.

When approved by a given department, nationally recognized examinations, such as the appropriate subject examinations of the College Level Examination Program (CLEP) of the College Entrance Examination Board, may be used as proficiency examinations in one or more courses offered by that department. In such cases the final decision as to whether or not credit is to be given on this basis rests with the department awarding credit, as does the determination of the number of credit hours and the specific courses for which such examinations are to be taken as evidence of acceptable proficiency. The University will charge a fee of $5.00 for the evaluation of such an examination.

Honors Categories for Graduation

The diplomas of graduating seniors show honors categories based on the following scale:

- "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 quarter preceding the graduation quarter. The honors category is also based on both the average earned at UT, Knoxville and the combined average on all college work attempted, with the lower of the two averages determining the honors category.

If, at graduation, a student's cumulative grade point average would allow a higher honors category than that determined at the end of the quarter preceding the graduation quarter, the student may, upon written request, receive a substitute diploma indicating the higher category.

Accelerated Program

The University operates on a four-quarter plan, and a majority of its courses, especially at the lower division, are offered every quarter. Through appropriate arrangements of courses and attendance during the summer quarters, 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.

Personnel Forms

Each candidate for a degree may file personnel material with the Bureau of Personnel Service. The services of the Bureau are available to all candidates for degrees during the year previous to the payment of the graduation fee and thereafter. The payment of the graduation fee entitles the graduate to all alumni privileges for the two-year period immediately following graduation.

Advanced Military Science 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.

Degrees

AT KNOXVILLE

Graduate School
Doctor of Business Administration,
Doctor of Education,
Doctor of Philosophy,
Specialist in Education,
Master of Arts,
Master of Business Administration,
Master of Engineering,
Master of Fine Arts,
Master of Mathematics,
Master of Music,
Master of Public Health,
Master of Science,
Master of Science in Library Science,
Master of Science in Planning,
Master of Public Administration,
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 Wildlife and Fisheries Science.

School of Architecture
Bachelor of Architecture.

College of Business Administration
Bachelor of Science in Business Administration.

College of Communications
Bachelor of Science in Communications.

College of Education
Bachelor of Science in Education.

School of Health, Physical Education, and Recreation
Bachelor of Science in Education.

College of Engineering
Bachelor of Science in Aerospace Engineering,
Bachelor of Science in Chemical Engineering,
Bachelor of Science in Civil Engineering,
Bachelor of Science in Electrical Engineering,
Bachelor of Science in Engineering Physics,
Bachelor of Science in Engineering Science,
Bachelor of Science in Industrial Engineering,
Bachelor of Science in Mechanical Engineering,
Bachelor of Science in Metallurgical Engineering,
Bachelor of Science in Nuclear Engineering.

College of Home Economics
Bachelor of Science in Home Economics.

College of Law
Doctor of Jurisprudence.

College of Liberal Arts
Bachelor of Arts,
Bachelor of Fine Arts,
Bachelor of Music,
Bachelor of Science in Chemistry.

School of Nursing
Bachelor of Science in Nursing.

College of Veterinary Medicine
Doctor of Veterinary Medicine

CENTER FOR THE HEALTH SCIENCES
(See CHS Bulletin)

Graduate School — Medical Sciences
Doctor of Philosophy,
Master of Science.

College of Medicine
Doctor of Medicine.

College of Dentistry
Doctor of Dental Surgery,
Master of Science in Orthodontics,
Master of Science in Pedodontics.

College of Pharmacy
Bachelor of Science in Pharmacy.

College of Nursing
Bachelor of Science in Nursing,
Master of Science in Nursing.

College of Community and Allied Health Professions
Bachelor of Science in Cytotechnology,
Bachelor of Science in Dental Hygiene,
Bachelor of Science in Medical Records Administration,
Bachelor of Science in Medical Technology,
Bachelor of Science in Physical Therapy,
Bachelor of Science in Radiological Technology.

AT CHATTANOOGA
(See Bulletin of UT Chattanooga)
Bachelor of Arts,
Bachelor of Music,
Bachelor of Science,
Bachelor of Science in Engineering,
Bachelor of Science in Nursing,
Master of Business Administration,
Master of Education,
Master of Science.

AT MARTIN
(See Bulletin of UT Martin)
Associate of Arts in Nursing,
Bachelor of Arts,
Bachelor of Science,
Bachelor of Science in Agriculture,
Bachelor of Science in Business Administration.
Bachelor of Science in Chemistry.
Bachelor of Science in Education.
Bachelor of Science in Engineering Technology.
Bachelor of Science in Home Economics.
Bachelor of Science in Law Enforcement.
Bachelor of Science in Natural Resources Management.
Master of Science in Education.
Master of Science in Home Economics.

AT NASHVILLE
(See Bulletin of UT Nashville)
Associate of Arts in Fine Science.
Associate of Arts in Nursing.
Bachelor of Arts.
Bachelor of Science.
Bachelor of Science in Business Administration.
Bachelor of Science in Education.
Bachelor of Science in Engineering.
Bachelor of Science in Nursing.
Master of Business Administration.

Fees and Expenses

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

Tuition. Tuition is free to residents of Tennessee. However, tuition is required of all students who are classified as non-residents for fee assessment purposes.

Student Hospitalization and Medical Insurance. The University makes available, by contract with an insurance company, group hospitalization insurance expressly for students. Changes in the group plan may be authorized by the University after annual review depending on prevailing hospital costs in the Knox area.

As would be expected with a large student group contract, a low premium cost for the individual student is obtained. Students are urged to avail themselves of this insurance, or other comparable adequate insurance, since the paying for hospital care is the student's own responsibility.

Information about the insurance is mailed by the company to the student’s home and his participation is solicited. Enrollment in the insurance program remains open for a designated period after classes begin. The student wishing to avail himself of this insurance after arrival on the campus may obtain the application from the Office of Student Health Services. Whether application is made from his home or from the campus, the student applies directly with the Knoxville agent of the insurance company. Enrollment in insurance is not a part of registration for classes.

NOTE: Some family policies do not cover the dependent child after his nineteenth birthday. The family hospitalization insurance policy should be reviewed from this aspect.

Military Deposits. All students registering for All-Science and members of the band are required to make a deposit of $35.00 each to cover damage to or loss of property issued to them. The unused portion of the deposits will be returned to the students after completion of training.

Identification Card. ID cards, issued to all students, are prepared during registration of the first quarter a student enrolls in the University and are good for the quarter thereafter. These cards are required for many purposes such as use of library facilities, check cashing facilities in the UT Bookstore, and admission to various athletic, social, and cultural events. These cards are non-transferable and may not be duplicated.

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 at Room 342, University Center.

University Fees

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Per Quarter</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Students</td>
<td>$136.00</td>
<td></td>
</tr>
<tr>
<td>Graduate and Law Students</td>
<td>$146.00</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Per Quarter</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Students</td>
<td>$284.00</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: In lieu of the above charge for tuition and/or maintenance fee, part-time students may elect to pay fees computed by the quarter hour credit (or audit) at the rates shown below, total charge not to exceed the regular maintenance fee for in-state students or the maintenance fee plus tuition for out-of-state students.

Undergraduate Students:

<table>
<thead>
<tr>
<th>Description</th>
<th>Per Quarter</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-State</td>
<td>$16.00</td>
<td>per quarter hour or fraction thereof; minimum charge $48.00</td>
</tr>
<tr>
<td>Out-of-State</td>
<td>$35.00</td>
<td>per quarter hour or fraction thereof; minimum charge $105.00</td>
</tr>
</tbody>
</table>

Graduate and Law Students:

<table>
<thead>
<tr>
<th>Description</th>
<th>Per Quarter</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-State</td>
<td>$22.00</td>
<td>per quarter hour or fraction thereof; minimum charge $66.00</td>
</tr>
<tr>
<td>Out-of-State</td>
<td>$48.00</td>
<td>per quarter hour or fraction thereof; minimum charge $144.00</td>
</tr>
</tbody>
</table>

UNIVERSITY PROGRAMS AND SERVICES FEE

<table>
<thead>
<tr>
<th>Description</th>
<th>Per Quarter</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>All undergraduate and graduate students taking in excess of six quarter hours per quarter will be assessed a University Programs and Services Fess of $15.00 per quarter. Part-time students taking six quarter hours or less will be assessed at the rate of $1.00 per quarter hour or fraction thereof (minimum charge $3.00) but are not entitled to admission to general activities programs. This fee is not refundable.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The University Programs and Services Fee for the Summer Quarter will be $12.00. Part-time students taking six quarter hours or less will be assessed at the rate of $1.00 per quarter hour or fraction thereof (minimum charge $3.00) but are not entitled to admission to general activities programs.

Students taking a course load of six hours may elect to pay the full 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. Students enrolled exclusively in Evening School or at Oak Ridge and Kingsport Centers will be exempt from the University Programs and Services Fee.

Activities cards are non-transferable and may not be duplicated.

MUSIC FEE

<table>
<thead>
<tr>
<th>Description</th>
<th>Per Quarter</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>All half-hour less per week, per quarter</td>
<td>$20.00</td>
<td></td>
</tr>
<tr>
<td>One hour lesson per week, per quarter</td>
<td>$40.00</td>
<td></td>
</tr>
</tbody>
</table>

Payable by eligible full-time students receiving individual instruction in music.

GRADUATION FEE

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor's Degree</td>
<td>$10.00</td>
</tr>
<tr>
<td>Master's Degree</td>
<td>$16.00</td>
</tr>
<tr>
<td>Doctoral Degree (except JD)</td>
<td>$36.00</td>
</tr>
</tbody>
</table>

Payable at the beginning of the quarter in which the candidate is to be graduated. This fee is non-refundable and is valid for four services.

DELAYED REGISTRATION FEE

Graduated Late Service Fee $2.00 per day

Students who pre-register and for whom a class schedule (either complete or partial) is available on the regular registration dates must pay their fees (or make satisfactory arrangements with the Treasurer's Office) on these dates. Effective the first regular business day (excluding Saturday, Sunday, and any holidays) following the last regular registration day a graduated late service fee of $2.00 per day will be charged during the next ensuing five regular business days. ($2.00 first day, $4.00 second day, $6.00 third day, $8.00 fourth day, and $10.00 fifth day.)

Students who do not pre-register but register through the "secondary" registration procedures will have graduated late fee.

Additional Late Service Fee $10.00

All students who have not completed registration and paid their appropriate charges (or made satisfactory arrangements with the Treasurer's Office) within five regular business days after the last regular registration day will be charged an additional $10.00 late service fee (total $20.00).

This $10.00 service fee is also applicable to delays in payment occasioned by checks which fail to clear the bank on which drawn, and to room and board charges which are not paid (or satisfactory arrangements made for deferral) within five regular business days after registration or assignment date, whichever is later.

Reinstatement Service Fee $10.00

Students who have not completed registration and paid their appropriate charges (or made satisfactory arrangements with the Treasurer's Office) within ten regular business days after the last regular registration day may, at the discretion of the University, be automatically withdrawn from the University. A student withdrawn for such reason will be assessed the appropriate fee.
as of the date dropped. Students in this category who, either before or after withdrawal, may be entitled to continue their enrollment will be charged a $10.00 reinstatement service fee in addition to the other service fees set forth in the previous paragraphs. All students are required to have a validated fee receipt to complete the registration procedure. This includes graduate and teaching assistants and others whose fees may be billed in advance, or waived. Delayed 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 a validated fee receipt from the Treasurer's Office.

The failure of students to pay their debts or other obligations to the University or any component thereof when due may result in denial of registration, graduation, and the withholding of the transcripts.

Deferred Payment Service Fee $3.00
Applicable when the payment of any part of a student's account is deferred by satisfactory arrangement with the Treasurer's Office, including payments which must be billed to outside agencies, organizations and institutions. This fee is also applicable when any additional charge (out-of-state tuition, music fee, room and board adjustments, etc.) is not paid within five regular business days after the date it was incurred. Students are expected to take the initiative to pay all University obligations promptly.

Application Fee $10.00
Each undergraduate, graduate, and College of Law application for admission must be accompanied by a fee of $10.00 before it will be processed. This fee is not refundable.

Proficiency Fees $10.00
Fees for proficiency and substantiating examination are $10.00 per course. See page 19 for information on proficiency, CLEP, or other examinations.

Co-op Registration Fee $5.00
If credit is received, the fee will be determined by applying the appropriate quarter hour rate.

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

Special Student and Post-Baccalaureate Fees
Special students pay fees at the graduate rate. Post-Baccalaureate students pay fees at the graduate rate although graduate credit is not given for course work.

Refund of Fees and Adjustments
Upon receipt of a class schedule, partial or complete, a student is responsible for payment of tuition and fees. Withdrawal from the University after receiving a class schedule must be by official notification to the Office of Special Services. The minimum of 20 percent of fees will be charged. If classes are not attended because space in a class section is reserved until released. Failure to promptly notify the Office of Special Services when withdrawing could result in a larger percentage fee assessment. The effective date of withdrawal is the date the Office of Special Services is notified by completion of the official withdrawal request form. For all refunds for withdrawal within 7 calendar days beginning with the first day following regular registration permits an 80 percent fee refund. Withdrawal between 8 and 14 calendar days following regular registration permits a 60 percent fee refund. Withdrawal between 15 and 21 calendar days following regular registration permits a 40 percent fee refund. Withdrawal between 22 and 28 calendar days following regular registration permits a 20 percent fee refund. Refunds, in accordance with the refund policy, will be made after the drop deadline.

No refund is due on courses which are dropped unless the sum of the remaining hours calculated at the hourly rate plus the adjusted charge for the course(s) dropped is less than the total amount paid or the maximum equivalency or maintenance fee. On the Knoxville campus for a regular quarter no refund is made for courses dropped later than twenty-one calendar days after the last regular registration day. Refunds resulting from dropped courses will be made after the final audit at the end of the quarter.

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

Note: All charges and refunds will be made to the nearest even dollar. All charges are subject to subsequent audit and verification. Errors will be corrected by appropriate additional charges or refund. Other information on fees, expenses, refunds, and adjustments is given in the Timetable (Schedule of Classes) for each quarter.

Summer Quarter Fees and Expenses
Fees and expenses for the Summer Quarter are the same as for the other quarters during the academic year with the exception of the University Programs and Services Fee as noted above. Although the Summer Quarter is divided into terms of varying lengths (three-, four-, six-week, etc.), tuition and fees are assessed at the regular quarter hour rate up to the maximum charge for a complete regular quarter.

The refund policy covering withdrawals and dropped courses for the Summer Quarter is based on the length of the term for the course(s) dropped. No refund is applicable to six-week and four-week courses dropped later than fourteen calendar days after the regular registration day for the course(s) involved.

Estimate of Expenses
The following estimates of the necessary expenses for an 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 & Law
Maintenance Fee $1,818 $1,863
Programs & Services Fee 852 852
Room and Meals $2,670 $2,715
Books, Supplies, etc. 500 500

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

Housing
The University provides modern residence facilities in order to give students comfortable housing at reasonable cost and with an atmosphere conducive to academic achievement and personal development. Undergraduate Students: Single freshman or sophomore students are required to reside in University residence halls when space is available unless they commute from the home of their parent or legal guardian. Other single students are encouraged to reside in University facilities. Housing contracts are a commitment for the academic year, September to June, or for shorter periods if the student enters the University during winter or spring. A housing application will be mailed as a part of the Application for Admission. Residence halls assignments for the academic year are made in the summer. The student must be admitted to the University prior to assignment. If a student withdraws from the University, his housing contract is suspended in accordance with policies stated in the contract. Students assigned to residence halls on the room and board plan will be given contracts written to include both room and board. A contract for housing signed by a student is binding for the term of contract and is rigidly enforced by the University.

Additional information pertaining to single student housing may be obtained from the Office of Residence Halls, The University of Tennessee, 37916.

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 his off-campus housing. The University does not inspect or approve these facilities. The terms and conditions for the rental of off-campus housing are between the student and the landlord.

Graduate Students: Single graduate students may be assigned to the University's residence halls or the single student apartments. Special graduate floors are available upon request. Information concerning University residence facilities, please refer to the appropriate paragraphs above describing Undergraduate Students and Off-Campus Housing.

Married Students: The University has provided modern apartment facilities in several locations for married students with families. Information and application for these facilities will be secured from the Office of Rental Properties, The University of Tennessee, 37916.
Food Service Facilities

Excellent University-operated food service facilities have been provided. They are all 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 insure that the student gets the highest quality meal at the lowest possible cost.

Room and board meal arrangements are available. This plan offers the best combination of balanced, nutritious meals, carefully planned and served at a reasonable charge to a 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 "Charge Plan" whereby students charge the bill rendered to their parents monthly.

For the late evening snack or morning coffee break, popular spots on the campus are the delicatessens and grill operations. Students are invited to take advantage of the many special meals offered at the University Center throughout the year.

Student Financial Aid

The University of Tennessee offers a comprehensive program of financial aid for full-time students who otherwise would not be able to attend the University. Through a financial aid program, an eligible student may receive one or more types of assistance to help pay college expenses.

Financial need is defined as the difference between a family's resources and the total expenses of attending the University. If there is a deficit, the student is considered to be in need of financial assistance. To assist in determining the need for financial aid, the University uses the need-analysis system of the College Scholarship Service (CSS). The CSS forms, the Parents' Confidential Statement (CS) and Student's Financial Statement (SFS), the Financial Aid Office determines the amount that the parents and students could generally be expected to contribute toward meeting educational expenses. For more information on need determination, please refer to the brochure entitled, "Financial Assistance For Students." Since a student's family resources can decrease and increase significantly during an academic year, the University requires each student to apply annually for renewal of financial aid.

The University of Tennessee has three basic types of financial aid — scholarships and grants, loans, and part-time employment. These may be awarded individually or in combination according to the needs of the student.

Scholarships and Grants

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

Most scholarships are awarded to students who demonstrate strong academic achievement and proven need for assistance. There is, however, an academic merit scholarship program, based only on academic achievement. If you wish to compete for merit scholarships only, you must submit an Application for Student Financial Aid. A Parent's Confidential Statement is not necessary. Academic achievement is judged for entering freshmen students by the applicant's secondary school academic record and scores on the American College Test Battery (ACT). Academic achievement for currently enrolled students 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 foundations and alumni, there are not enough funds to provide scholarship aid to all qualified students.

Annual scholarship stipends range from $100 to $750.

Most scholarships are awarded for one year, with the recipient competing for scholarships each year of enrollment in the University. The Application for Student Financial Aid is required, and all applicants will be considered for every scholarship coordinated through the Financial Aid Office.

High school students should contact their school counselor for principal concerns, scholarships offered by local individuals, national foundations, and other organizations.

Supplemental Educational Opportunity Grants. This is a program of direct grants available to entering freshmen, transfer, and enrolled undergraduate students with exceptional financial need. Eligible students accepted for enrollment who are currently enrolled in good standing may receive a Supplemental Educational Opportunity Grant (S.E.O.G.). Grants may be extended for a maximum of 12 quarters. An S.E.O.G. must be matched dollar for dollar by other sources of financial aid, i.e., scholarships, loans, and/or earnings from University part-time employment. A Supplemental Educational Opportunity Grant may not be less than $200 or more than $1,500, or exceed one-half of the student's need for assistance. The above regulations and provisions of the Supplemental Educational Opportunity Grants are subject to change by federal legislative action.

Law Enforcement Education Program. The University of Tennessee participates in the Law Enforcement Education Program. This program provides grants for loans to policemen, police, court, and correction employees, and students preparing for careers in these fields. Grants up to $250 per academic quarter may be made for tuition, mandatory fees, and books related to the courses being studied. Loans up to $2000 per academic year can cover living expenses in addition to tuition, fees, and books. Application forms are available in the Financial Aid Office.

Nursing Scholarship Program. The purpose of this program is to assist students of exceptional financial need who are enrolled as full-time students in a course of study leading to a baccalaureate degree or a graduate degree in Nursing.

The amount of scholarship which a student may receive depends upon financial need. The maximum scholarship available for any student in a full-time period is $2,000. The above regulations and provisions of the Nursing Scholarship Program are subject to change by federal legislative action.

Student Loans

National Direct Student Loans. Long-term loans are available primarily through the National Direct Student Loan. Proven need for financial assistance determines your eligibility.

Loan repayment and interest payments on National Direct Student Loans are deferred until after graduation or as long as the individual remains in full-time attendance at an accredited institution of higher education in the United States. Repayment may also be deferred for a period of three (3) years while the borrower is serving in the Armed Forces, Peace Corps, or VISTA program, or 10 years at a maximum cost per year on the unpaid balance, the maximum repayment period is ten (10) years with the current minimum annual repayment of $180.00 or 10 per cent of the accumulated loan, whichever is greater.

If upon graduation you become a full-time teacher in a public or non-profit school which is designated by the commissioner as having a high enrollment of low-income families or become a teacher of the handicapped, 15 per cent of total principal plus interest is cancelled for the first and second year of teaching, 20 per cent for the third and fourth years, and 30 per cent for the fifth year. If after graduation you become a staff member in a preschool program which is operated for a period comparable to a full school year, 15 per cent of principal plus interest will be cancelled for each year of service.

Cancellation at the rate of 12 1/2 per cent of the total principal plus interest will also be made up to 50 per cent of the loan for each year of Armed Forces service, beginning after commissioning.

An undergraduate may be extended a maximum annual loan of $1250 to an accumulated loan total of $5000. Graduate level students may be extended annual loans of $2500 to a maximum accumulated loan total of $10,000. Because of the limited availability of federal loan funds, priority will be given to students who have maintained a 2.0 cumulative grade point average for renewal of the NDLS. First year students must have a 2.0 high school grade point average for initial receipt of the loan. The above regulations and provisions of the National Direct Student Loan Program are subject to change by federal legislative action.

The University of Tennessee Student Loans. Student loans from University sources are available to currently enrolled students with a 2.0 or above cumulative grade point average. You can be extended a loan of up to $250 per quarter to an annual maximum of $750. Your interest is 5 per cent per annum payable annually on the anniversary date of the note. The loan is made for a specific time period and is due at the end of a stated number of years from the date of the note. Extensions may be obtained if you continue your academic studies at the graduate school.
level. The borrower may, without penalty, pay all or part of his loan at any time before the maturity date.

**Nursing Student Loans.** The Nursing Student Loan is available to students who are enrolled or admitted as students in a course of study leading to a baccalaureate degree in Nursing and who show need of assistance in order to pursue their course of study. The program provides a long-term low-interest loan with repayment beginning nine months following graduation of half-time study at an accredited school of nursing. Repayment may also be deferred for a period up to three (3) years while the borrower is serving in the Armed Forces or Peace Corps or up to five (5) years for full-time course of study leading to advanced professional training. If upon graduation you become employed full-time as a registered nurse in a public or non-profit pri"
James Stuart Scholarship  
Sullivan County Agricultural Scholarship  
Glen G. Summers Agriculture Fund  
L. Swendtrop English Scholarship  
Swan Brothers, Inc. Scholarship  
Tua Beta Pi Scholarships  
Tua Beta Sigma  
Judge George Caldwell Taylor Memorial Scholarship  
Tennessee Association of Broadcasters Scholarship  
Tennessee Association of Extension Home Economics Scholarship  
Tennessee Association for Future Homemakers of America-Margaret Browder Scholarships  
Tennessee Association of Real Estate Boards Scholarship  
Knox. Aux. of Tennessee Bar Association Scholarship  
Tennessee Claims Insurance Scholarship  
Tennessee County Agents' Association Scholarship  
Tennessee Farm Bureau Federation Agricultural Scholarship  
Tennessee Farmers Cooperative Agricultural Scholarship  
Tennessee Farmers Mutual Insurance Company Agricultural Scholarship  
Tennessee Federal of Garden Clubs Scholarship  
Tennessee Home Demonstration Agents Association Scholarship  
Tennessee Jaycees Special Education Scholarship Fund  
Tennessee Metal Cuivert Inc. Scholarship  
Tennessee Restaurant Association Scholarship  
Tennessee Teachers Builders Association Scholarships  
Tennessee Society of Certified Public Accountants Scholarships  
Tennessee Society of Professional Engineers, Knoxville Chapter, Scholarship  
Tennessee State Florist Association Scholarship  
Tennessee Valley Bank Scholarship  
Tennessee Valley Section of American Society of Civil Engineers Scholarships  
Daniel H. Testerman Memorial Scholarship  
Texaco Scholarships  
Thorn, How, Stratton & Strong Scholarship  
Thrift Loan Company Scholarships  
William M. Tolley Scholarship Fund  
Toms Foundation Scholarships  
Towndend-Estes Kefauver Memorial Scholarships  
The Williams B. Townsend Memorial Scholarship  
Tractor Service Company Forestry Scholarship  
Transportation Engineers Scholarship  
Tri-Cities Chapter American Institute of Industrial Engineers Scholarships  
Tri-State Farm Bureau Scholarship  
Trousdale County Farm Bureau-Young Farmers and Homemakers  
Tullahoma Post, Society of American Military Engineers Scholarship  
Union Bag-Camp Paper Corporation Scholarship  
Union Carbide Engineering Scholarship  
United Auto Workers Estes Kefauver Memorial Scholarship  
United Steelworkers of America Estes Kefauver Memorial Scholarship  
University of Tennessee Alumni Association  
University of Tennessee Alumni Freshmen Scholarships  
University of Tennessee Alumni Association Upper-classmen Scholarships  
University of Tennessee Alumni Association  
University of Tennessee Alumni Association National Merit Scholarships  
University of Tennessee Band Scholarships  
University of Tennessee International Scholarship Fund  
Victory Van Lines Agricultural Scholarship  
Vinyflex Corporation Scholarship  
Frederick Bickford Vreeland Scholarship  
Charles A. and Myrtle Warner Memorial Scholarship  
Harold C. Warner Law Centennial Endowment Fund  
Washington County Farm Bureau Scholarship  
Ira A. Waston Scholarship  
William Way Memorial Scholarship  
Weasley County Farmers Cooperative Scholarship  
W.E. Webster Agriculture Scholarship  
Daniel B. Welton Scholarship  
White Stores Company Scholarship  
White Stores, Inc., Scholarship  
Marjorie Wilkin Scholarship  
Williamson County Farm Bureau  
Agricultural Scholarship  
Wilson County Agricultural Extension Scholarship  
H.W. Wilson Scholarship  
Winchester Rotary Club Agricultural Scholarship  
J.H. Winstead, Jr. Memorial Scholarship Fund  
Arthur B. Wood Scholarship  
Chancellor Glen W. Woodlee Scholarship  
Dick Wright Scholarship  
Gerti Wundulichc Scholarship in German  
C.E. Wylie Scholarship in Dairying  
Edwin F. Zwickec Scholarship  

The University of Tennessee wishes to express gratitude to the contributors and donors of the following loans:  
American Association of University Women Loan Fund  
American Institute of Architecture Loan Fund  
Samuel W. Atkins Loan Fund  
W. Trox Bankston Loan Fund  
Bixby-Altusra Loan Fund  
John L. Boyd Student Loan Fund  
John H. Cantrell Scholarship Fund  
W.W. Carson Loan Fund  
Fred Collins Memorial Loan Fund  
Nancy M. Dismuke Loan Fund  
E. P. Frost Memorial Foundation (The Scarabbee Senior Society Loan Fund)  
Eugene Gambill Loan Fund  
Helen B. Gibson Loan Fund  
Gordon A. Hawkins Memorial Loan Fund  
Fleta Crilla Hodge Memorial Loan Fund  
J. E. Hogan Loan Fund  
Ruth Hopec Loan Fund  
R.N. Keesterson Loan Fund  
Knoxville Academy of Medicine Loan Fund  
J.E. Lutz Memorial Loan Fund  
Clarence H. Moody Loan Fund  
Isie Moore Memorial Loan Fund  
Phillip Kappa Phi Loan Fund  
Phi Mu Alumnae Association Loan Fund  
Mary Plummer Memorial Loan Fund  
Maude Powell Student's Aid Fund  
James H. Rader Memorial Loan Fund  
Charles C. Ritchoff Loan Fund  
William Rule Loan Fund  
Senior Memorial Loan Fund, 1922  
Senior Memorial Loan Fund, 1925  
Sarah Hawkins Senior Memorial Fund  
James A. Shull Memorial Fund  
J. Allen Smith Students' Aid Fund  
Southern Railway Loan Fund (William Wilson Finley Foundation)  
B.R. Strong Trust Fund  
Students Loan Fund (Special)  
Students Loan Fund of the Life Tennessee Banker's Association (Fred Collins Memorial Foundation)  
Mary Boyce Temple Loan Fund  
Williamson County Farm Bureau Scholarship  
Nathaniel S. Woodard Memorial Loan Fund  

Honors and Awards  

The honors and awards available to students at The University of Tennessee, Knoxville are listed with donors below. The University reserves the right not to award any of the honors or awards listed herein.  

Dean's List  

Public announcement of students passing a quarter's work "With Highest Honors" (grades from
The University 27

3.75 through 4.0), "With High Honors" (3.40 through 3.74), "With Honors" (3.0 through 3.39). To be eligible, a student must complete at least 12 hours, not counting work taken on satisfactory/no credit basis.

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 has made available a Certificate of Merit 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 scholarship medals and embossed certificates to sophomores, junior, and senior students in the Animal Science Department who are of good moral character and rank scholastically in the top 10% per cent of their class.

The Block and Bridle Club recognizes students in Animal Science who are successful in their academic program, have made unusual contributions to the Club's program, and show evidence of leadership in their chosen field.

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

The Forestry Faculty Scholarship Award, given annually at the end of the junior year, is presented to an outstanding senior who is selected by the Forestry faculty on the basis of outstanding scholarship and contribution to the Forestry program.

Kentucky-Tennessee Section, Society of American Foresters Scholarship, awarded every third year to the freshman forestry student with the highest scholastic average. The award is in cash and a framed certificate.

M. Jacob Animal Husbandry Award, given by East Tennessee Packaging Company.

J.B. Madden Memorial Foundation Fund, established by J.B. Madden family. Income from $1,000 fund, for prizes in livestock 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 two students in each class with the highest scholastic average.

Tennessee Poultry Improvement Board Awards. $100 available for awards to students competing in poultry and poultry products judging.

School of Architecture

Malcolm Rice Achievement Award. $100 awarded annually to the third-year student showing most improvement with design studio.

College of Business Administration

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

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

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

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

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

Lutz Award, given by J.E. Lutz & Co., Inc., Knoxville. Cash award to student with minimum of 120 quarter hours having highest scholastic record after completion of first eight quarters of required courses in chosen curriculum.

Lutz Insurance Award, given by J.E. Lutz & Co., Inc. Cash award to finance major submitting most scholarly, complete, and satisfactory written project in insurance field.

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 11-quarter scholastic average.

John Sample Agency for Connecticut Mutual Life Insurance Company. Cash award to a student majoring in insurance.

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

Wall Street Journal Award. Student Award Medal, year's subscription to The Wall Street Journal to outstanding student in finance classes using this newspaper during the year.

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.

College of Communications

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

Aloco Foundation Scholarship, $600 to an outstanding undergraduate planning a career in public relations.

Aloco Foundation Minority Scholarship, $600 to an outstanding undergraduate minority student in the College.

Kari and Madira Bickel Scholarships, Freshman Scholarships up to $1,000. Upperclass Scholarships up to $1,000. Doctoral Scholarships up to $4,000. Open to all students showing academic performance (3.00 or B or better), professional promise and need.

Dick Evans Scholarship, given to outstanding student in News-Editorial sequence of the School of Journalism.

Edward J. Meeman International Communications Fellowships, $1,500 each, to two outstanding graduate students from other countries.

Ernie Pyle Memorial Award, given by Scripps-Howard Newspapers. Certificate and basic journalism library awarded to the outstanding senior in recognition of scholarship and journalistic achievement.

Grantland Rice Scholarships or Fellowships, $2,200 total, to upper-division or graduate students selected on the basis of character, competence, and potential professional service in the tradition of Grantland Rice.

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

Journalism Faculty Scholarship. Up to $500 to an outstanding major in the School of Journalism.

Knoxville Ad Club Award, given to outstanding graduate in Department of Advertising.

Myron G. Chambers Scholarships, given by Scripps-Howard Newspapers, $1,000 total to one or more outstanding undergraduates in the Department of Advertising.

Sammie Lynn Puett Award, given to outstanding student in the Public Relations sequence in the School of Journalism.

Sigma Delta Chi Outstanding Graduate Citation, Certificate given by professional journalism society to outstanding graduate.

Tennessee Association of Broadcasters, $300 to outstanding freshman and outstanding junior or senior planning a career in broadcasting.

Willis C. Tucker Scholarship Award, given by Sigma Delta Chi. Silver bowl or key to graduating senior with highest academic average.

College of Education

Kappa Delta Pi, honor society for professionals and students in education. Minimum 3.5 grade point average. Recognizes outstanding contributions to field of education. Membership by invitation.
Knoxville Branch of American Association of University Women Award. Membership to senior woman selected on basis of scholarship and leadership qualities.

Pi Lambda Theta Fraternity Scholarship Key. Key to junior girl showing most outstanding qualities for professional leadership in education, attaining high scholastic average through junior year.

**College of Engineering**

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 made each year to a branch member whose performance scholastically and in branch activities has been outstanding.

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

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

American Institute of Chemists Medal. Recognition of an outstanding student in chemical or metallurgical engineering. Medal and certificate.

American Society of Mechanical Engineers. Award each year to a senior for outstanding work in the professional society.

Armour T. Granger Memorial Scholarship. A cash award given jointly by the Department of Civil Engineering and the American Society of Civil Engineers, Tennessee Valley Section, to a senior. Based upon scholarship, need, and activity in the ASCE student chapter.

The Arthur Brownlow Wood Memorial Scholarship Fund. A cash award made annually to an outstanding student in engineering.

Association of Textile Industrial Engineers Award. A $500 1-year award based on need, given by the Industrial Engineering Department 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 Electrical and Electronics Engineers. Cash award made annually to junior in electrical engineering with an outstanding scholastic record.

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 to the student who has participated in an outstanding senior majoring in engineering science. Letter of recognition, plaque.

Ina B. Howard Award. Cash award to worthy engineering student from Giles County, with preference given to civil engineering student.

J. Mack Tucker Outstanding Senior Award. Recognition by the Student Section of the American Society of Mechanical Engineers of the outstanding senior in the Mechanical and Aerospace Engineering Department. Award is based on leadership, scholarship, and potential for career in aerospace engineering.

Joel F. Bailey Award. Recognition by Tennessee Tau Eta Chapter of Pi Tau Sigma of the student in mechanical and aerospace engineering having the highest grade point average in each calendar year. Name on plaque.

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

Patterson and DeWar Scholarship. Cash award to a senior in electrical engineering majoring in electrical power distribution.

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.

The Willoughby Granger Award. A $50 cash award made annually to an outstanding woman in engineering by the Women's Auxiliary of the Tennessee Society of Professional Engineers.

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**College of Home Economics**

Alcoa Foundation Scholarships. Two, $600 each.

American Association of University Women Award. Awarded membership for one year to outstanding senior.

American Home Economics Association Student Member Chapter. $100. Awarded to an outstanding sophomore active in AHEA.

Central State Bank of Lexington. Award to student from Henderson County. $300.

Chattanooga Area Home Economics Association. Awarded to a junior or senior from the Chattanooga area. $100.

Danforth Award. Expenses exclusive of travel for two week's leadership training at American Youth Foundation Camp on the shore of Lake Michigan paid by Danforth Foundation, Inc.

Jack Daniel Distillery Scholarship. Awarded to student enrolled in the Food and Lodging Administration Program. $500.

Donelson Home Economists. $500.

Irene Hill Greene and Condon L. Greene Memorial Scholarship. Awarded to student from Anderson County. $300.

Gibson County Farm Bureau. $400.

Jessie W. Harris Scholarship. Awarded to sophomore, junior and senior with highest scholastic record. Three, $300 each.

Hawkins County Farm Bureau. Awarded to a freshman from Hawkins County. $300.

Knoxville Home Economists in Homemaking. Awarded membership in AHEA to outstanding senior.

Knoxville Hotel-Motel Association Scholarship. Awarded to student enrolled in the Food and Lodging Administration program. $500.

Lewisohn Scholarships, endowed by Frederick Lewisohn. Ten, $250 each.

Memphis Hotel-Motel Association Scholarship. Awarded to student enrolled in the Food and Lodging Administration program. $500.

Nashville Area Home Economists in Homemaking Scholarship. Awarded to a Nashville resident. $500.

Nashville Hotel-Motel Association Scholarship. Awarded to student enrolled in the Food and Lodging Administration program. $500.

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

Omicron Nu Sophomore Scholarship Award. $100. Awarded by the Home Economics Honor Fraternity.

Joe Powell Memorial Scholarship - District I 4-H All Stars. Awarded to 4-H All Star member from District II. $300.

Roane County Council of Home Demonstration Clubs. Awarded to freshman from Roane County. $250.

Stouffer Foods Corp. Scholarship. $300.

Tennessee Chapter of Future Homemakers of America. One, $300.

Tennessee Dietetic Association. Awarded to undergraduate student enrolled in dietetics program. Two, $250 each.

Tennessee Rehabilitation Corporation Scholarship. Ten, $400 each.

Tennessee Restaurant Association Scholarship. Awarded to student enrolled in Food and Lodging Administration Program. $500.

Association of Extension Home Economists. $250.


Washington County Farm Bureau. Awarded to student from Washington County. $300.

White Stores Scholarships. Two, $450 each.

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**College of Law**

Advocates' Moot Court Competition. An appellate argument competition with prizes from a fund established by a friend of the College.

Bobs-Merrill Company Prize. Copy of Tennessee Code Annotated to student attaining highest average during the first two years of law.

Callaghan and Company Prize. Offers a copy of Brown on Personal Property to student attaining highest average during junior year in law.

Herbert L. Davis Memorial Trust Fund. Award of $100 to student having highest scholastic average in first two years of law.

Hamilton National Bank Prize. Three prizes of $125, $75, and $50 to law students who draft the best wills based upon a hypothetical set of facts.

Lawyers Cooperative Publishing Company and the Bancroft-Whitney Company Prize. Joint publishers of American Jurisprudence offer separately bound topics from the encyclopedia to students receiving the highest grades in the respective subjects.

West Publishing Company Prize. Offers a selected title from Hornbook Series to member of each of the three classes who achieve highest scholastic average in the class.

West Publishing Company Prize. Offers a selected title from Corpus Juris Secundum to member of each of the three classes who made most significant contribution toward overall legal scholarship.

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**College of Liberal Arts**

John M. Allen Mathematics Prize. Medal, to outstanding freshman mathematics student. Prize is determined by competitive examination covering material found in the following courses: Mathematics 1540-50-60, Mathematics 1840-50-60, and Mathematics 1848-58-68.

Philo Sherman Bennett Prize, established by the late Hon. William J. Bryan. Cash award to student submitting best essay discussing principles of free government.

Biologia Award. Plaque, to the outstanding biology senior.

Chi Omega Prize, given by Pi chapter of sorority. $25, to the senior girl majoring in the social sciences, with the greatest proficiency in the subject.

Senior Greek Prize, established by friends of the classics. Cash award, to member of senior Greek class showing greatest proficiency in the course.

Maud Calloway Hays Scholarship. Variable scholarship of approximately $200 to senior history major with special interest in U.S. History.

History Department Scholarship. $350 to history major with financial need.

Italian Studies Award, established by Italian division
of Department of Romance Languages. Cash award to outstanding student in upper division courses in Italian.

Senior Latin Foundation Prize, established by friends of the classics. Cash award, to member of senior Latin class showing greatest proficiency in the study.

Charles L. McClung Prizes. First prize of $100, second prize of $50, to junior or senior for excellence in composition and declamation. Subjects are set by English Department in first quarter of academic year. Manuscripts must be submitted by Feb. 15. Six finalists compete in public declamation contest on first Wednesday evening in March.

Mrs. J. Harvey Mathes Tennessee D.A.R. American History Scholarship. Interest on $500, to woman student. Winners selected by the Department of History.

A.D. Melaven-Rhenium Scholarships for students in the Bachelor of Science in Chemistry curriculum. Established from funds obtained by the sale of rhenium metal and rhenium compounds prepared by procedures devised by Professor A.D. Melaven. Awards of $100 given quarterly to outstanding students.

Judson H. Robertson Award in Analytical Chemistry. Endowment established by family and friends of the late Professor Robertson. $100 to student with highest scholastic average in sophomore analytical chemistry courses.

Bennadotte Schmitt History Scholarships. Two scholarships of $500 each for academic excellence, and up to $500 based on financial need. History majors only.

Ruth Stephens Award in International Relations and International Law, established by the late Mr. and Mrs. Oscar Handly, Knoxville. Dividends from investment of $1,500, to student showing greatest knowledge of international relations or international law.

Ruth Stephens History Scholarship. $400 to history major for academic excellence.

Rush Strong Medal, established by the late Benjamin Rush Strong, Knoxville. Medal to student submitting best essay on "The Value of Truth."

Lee L. Verstanding Fellowship in History. Cash award to an outstanding student in history.

Pauline Capell Walker Prize in French. $10, to senior French major with greatest mastery of language, literature, and civilization of France.

Campus Honorary and Professional Fraternities

A number of honorary and professional fraternities have chapters on the University of Tennessee campus.

Membership in these organizations is generally based on the initiate's good character, professed interest in his chosen field, leadership characteristics, and a high scholastic record.

Those honor fraternities, both national and local, with chapters at The University of Tennessee are:

Alpha Chi Sigma, for chemical engineering and chemistry students. Student must have a 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 quarter and be elected to membership by others in the local chapter.

Alpha Epsilon Delta, for students preparing for study of medicine. Students with minimum 3.0 average in all courses may be elected at end of their first three quarters in the University, or at end of four quarters with a minimum 2.8 overall average. They may be initiated at end of five quarters if an overall 2.8 average has been maintained.

Alpha Phi Omega. Any undergraduate who is a former Student Government Association officer is eligible for membership. A pledge must have completed one quarter of academic work with an average grade of 2.0 to be 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 one-fifth of the junior class. A minimum 2.5 average is required.

Alpha Zeta, for agricultural fraternity for juniors and seniors. Prospective members must be among the upper two-fifths of their respective class and show leadership ability.

Beta Alpha Psi, for accounting students. Any undergraduate or graduate accounting major registered in advanced accounting, with a minimum "B" average in accounting subjects and a minimum "B" average in all subjects, is eligible for active membership.

Beta Gamma Sigma, for students in the field of business studies. Membership is limited to those commerce and business administration students rank in the upper one-fourth of their intercollege class. Juniors among the highest 3 per cent of their class may be elected in the last quarter of the year.

Chi Epsilon, for civil engineering students. Junior and senior civil engineering majors ranking in the upper 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 their scholarship 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 Administration. A minimum of 45 quarter hours University credit with a scholastic average of at least 2.5 for initiation.

Delta Sigma Rho-Tau Kappa Alpha honor societies for junior and senior students who have participated at a high level of excellence in intercollegiate forensics or 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 junior rankings in the upper one-fourth of the senior class 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 Sigma Delta, agricultural honor society for graduating seniors, graduate students, faculty, and agricultural alumni. Students selected must be in the upper one-fourth of the graduating class in the college of agriculture and must have a 3.0 average or better. Graduate students must have attained a 3.5 average or better on at least 24 hours toward the advanced degree. They must have shown promise of superior ability in carrying on advanced study and research directly concerned with agriculture and of making worthy contributions in their respective fields.

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

Iota Lambda Sigma, for industrial education students. No one may be initiated until he has acquired a minimum of 9 hours industrial education courses with at least "B" average.

Mortar Board, for senior women. Members are elected from students with a minimum 3.0 average for nine quarters of University studies.

Omicron Delta Kappa, for junior and senior men.

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 per cent of any given class.

Order of the Coif, for law students.

Phi Alpha Delta, for law students.

Phi Beta Kappa, the oldest national scholarship honor society. Students in the upper one-third of their class in the junior and senior years of college may be eligible for election to Phi Beta Kappa. Members must have a grade-point average of 3.50 for 135 hours of liberal arts courses (senior election) or 3.80 for 110 hours of liberal arts courses (junior election). The ten best seniors have completed 60 hours of liberal arts courses at The University of Tennessee, Knoxville, and have made the requisite grade average both on the hours taken at The University of Tennessee, Knoxville, and the total number of hours of liberal arts courses. In addition to the grade-point average required, students must have completed the second college year of 10 hours of junior year and one year of college-level mathematics and must rank in the upper 10 per cent of candidates for the B.A. and B.S. in Chemistry degrees in their graduating class to be eligible for election.

Phi Chi Theta, professional fraternity for women interested in a business career. Any woman student enrolled in the College of Business Administration, or specializing in business and/or economics, being at least a third-quarter freshman and having at least the all-student average, is eligible for membership.

Phi Delta Kappa, honorary professional fraternity in education connected with approved colleges and universities of graduate rank maintaining schools, colleges or departments of education; pursuing excellence in service, teaching, and research.

Phi Delta Phi, for law students.

Phi Delta Sigma, for freshmen who have a minimum grade-point average of 2.5 in all courses taken. The first quarter must be completed during the second year at the University.

Phi Gamma Phi, broadest of the national honor societies, recognizing all fields of learning. Prospective members must be seniors ranking among the upper ten per cent of their class, with a minimum 3.0 average. Meeting these requirements does not necessarily assure election.

Phi Kappa Phi, (Sinfonia), professional music fraternity for students interested in music. Requirements: A 2.5 overall average and a major in music. The main purpose of the organization is to further American music in the campus and community.

Pi Delta Phi, for French students. Prospective members must have a minimum "B-minus" average in all French courses taken.

Pi Kappa Lambda, for students in music and music education.

Pi Lambda Theta, a national honor and professional association in education. Open to juniors and seniors with a minimum 3.0 GPA and graduate students with a minimum 3.5 GPA. Membership by invitation.

Pi Sigma Alpha, for political science students and faculty. Student members are elected solely on the basis of scholarship.

Pi Tau Sigma, for mechanical engineering students. Prospective junior members must rank in the upper one-fourth and seniors in the upper one-third of their respective mechanical engineering class.

Scabbard and Blade, military science honor society for upperclassmen.

Scarbrough Senior Society, local society for students and faculty. Membership is by invitation.

Sigma Delta Chi, professional journalistic 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 45 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 graduate students, faculty members, and qualified alumni.

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, for engineering students. Three students from the upper one-eighth of the class may be elected during the fall quarter of the junior year. Juniors ranking in the upper one-eighth of their class up to the end of the winter quarter may be elected during the spring quarter. The remainder of the upper one-eighth of the senior class may be elected during the fall quarter.

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 fraternity for upperclass and graduate students, faculty members, and persons who have attained a national reputation in forestry. Students must have completed 110 quarter hours of credit including 15 hours in professional forestry courses. When practical, initiates are selected during the junior year to provide the greatest degree of benefits of active membership.

Student Affairs and Services

Office of the Vice Chancellor for Student Affairs

The Vice Chancellor for Student Affairs coordinates the various offices and departments of the University which offer assistance to students in their education and life beyond the classroom.

Office of the Dean of Admissions and Records

All matters relating to undergraduate admission to the University and to credit for work at other schools and colleges are administered by the Dean of Admissions and Records. All credit, applications for admission, and inquiries about admissions should be addressed to the Director of Admissions, The University of Tennessee, Knoxville, Tennessee 37916.

Student Financial Aid is also administered under the direction of this office. Information on available financial aid may be obtained by writing the Director of Financial Aid, 301 Student Services Building. The University of Tennessee, Knoxville, Tennessee 37916.

In addition to undergraduate admissions, this office has general administrative responsibilities for academic retention and achievement of all undergraduate and graduate student academic records, certification of completion of requirements for undergraduate degrees, registration procedures, and eligibility for athletic participation. This office also administers relations between students and the Selective Service Boards, Social Security Administration, and Veterans' Administration Affairs.

Handicapped students may receive special assistance in registering and arrangement of schedules through this office.

Office of the Dean of Student Conduct and Orientation

Student Orientation Office. This office is dedicated to helping the new student adjust to the university setting, concerning itself with general, personal, and scholastic difficulties of the student during the first year of enrollment on the Knoxville campus. The office is responsible for the summer orientation program, specifically designed for the fall-semester new students, as well as orientation programs for freshmen and transfer students presented prior to the beginning of each quarter.

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

Office of International Student Affairs

The office assists students from other countries with the many matters which are of particular concern to them during their stay in the United States. It also serves as the official University representative in all matters involving immigration authorities, international educational organizations, and foreign governments.

The office maintains the overseas student's official records and provides a liaison with the teaching faculty. It coordinates such projects as a community volunteer program and activities for student spouses. To help the overseas student adjust to American life, its professional staff serves as ex officio advisers on personal and academic problems.

Special orientation programs are held at the beginning of each term; foreign students admitted to the University are notified in advance and are urged to arrive in time to attend them.

Non-U.S. students who are applying for Graduate School admission should write to: The Vice-Chancellor for Graduate Studies and Research, The University of Tennessee. Persons seeking undergraduate admission should apply to: Director of Admissions, The University of Tennessee. Other specific inquiries or requests for more detailed information may be directed to: Office of International Student Affairs, 201 Alumni Hall, The University of Tennessee, Knoxville, Tennessee 37916, U.S.A.

UNIVERSITY INTERNATIONAL CENTER

The "International House" is located approximately two blocks from the heart of the campus. It is provided by the University and operated by the Office of International Student Affairs. The house was first opened in February, 1969, to provide a facility where domestic and foreign students could come together to relax and discuss matters of mutual interest.

An executive committee composed of students and faculty representing all national student groups, campus student government groups, and administration oversees the operation of the House and supervises a variety of weekly programs.

Office of Director of Student Activities

The Office of the Director of Student Activities, Suite 413 Student Services Building, Circle Park Drive, coordinates all student activities and programs. Its area of operation encompasses the University Center, the Student Aquatic Center and Recreation Facilities, Student Publications, and all other extracurricular activities of University students.

University Center

Playing a unique role in the University community, the Carolyn P. Brown Memorial University Center is a central gathering place for students, faculty, and staff as well as campus visitors.

A variety of activities and facilities is available in the newly enlarged Center. The lower level houses 12 automatic bowling lanes, 14 billiard tables, dark room facilities, and an arts and crafts area. These facilities are among the best in the nation for student recreational pursuits.

The expansive food service on the ground level provides the finest food available. The entrance to the large, modern, two-level book store is on Stadium Drive. Such facilities as central ticket office, day student lounge, and the post office are conveniently located on the ground level.

The first floor is the student program area. An auditorium with 575 seats, a 150-seat seminar room, a music listening room, and four public lounges supplement the large ballroom and meeting rooms for any type of campus event. Large banquets, dances, and receptions are planned and serviced in the expansive area.

Administrative offices for the building, student programs and organizations, and additional dining facilities are located on the third floor.

The meeting rooms and services of the Center are available to all approved student groups. Requests for usage are completed with the Reservations Office. This office also maintains a campus calendar for all major events.

THE UNIVERSITY BOOK AND SUPPLY STORES

The main store, at the Stadium Drive entrance of the University Center, is the official store for the University. A tobacco and sundries shop at the Stadium Drive entrance is open 12 hours daily.

Used and new textbooks are bought and sold on the lower level of the two-level store. In addition to textbooks, a 85,000 paperback
The primary basis of competition is league play in which teams participate for the fun of the game. Following league competition there are division tournaments among the League Champions to determine Division Champions for Residence Halls, Fraternities, and Independents. These Division Champions then compete for the All University Championship.

The league activities include basketball, bowling, football, crosscountry, golf, handball, water polo, paddleball, raquetball, softball, swimming and diving, tennis, track relays, track and field, and volleyball.

The purpose of the Women’s Intramural Program is to provide organized sports activities for all women students including individual and dual sports, team sports, and selected sports events. The basis of competition is league play followed by division tournaments among the league champions to determine Division Champions for Residence Halls, Independents, and Sororities. These Division Champions then compete for the All University Championship.

Activities are badminton, basketball, bowling, football, golf, putting, innertube water polo, softball, swimming and diving, table tennis, tennis, track and field, track relays, and volleyball.

The Intramural Office now offers co-recreational activities. All students, faculty and staff, and their nonstudent wives, husbands, or friends are eligible to participate, providing the students meet the eligibility requirements of the men’s and women’s intramural programs.

The Co-Rec activities are organized as an informal program, using modified rules so that men and women can participate on an equal basis.

The activities are badminton, basketball, horseshoes, paddleball, raquetball, shuffleboard, softball, table tennis, tennis, volleyball, and water polo.

**INTRAMURALS FOR FACULTY AND STAFF**

The Intramural Program for Faculty and Staff is designed to provide a wide range of activities for all members of the University community. Activities are organized for both teams and individual participants. Events include badminton, basketball, billiards, bowling, golf, innertube water polo, paddleball, shuffleboard, squash, table tennis, tennis, volleyball, and water polo.

**SPORTS CLUBS**

Sports Clubs are organized when students express an interest in a certain activity or foresee needs. The Sports Club office will assist any student wishing to organize any type of sports club. These clubs include: archery, badminton, cycling, bowling, boxing, canoeing, diving, dolphin, equestrian, fencing, flying, golf, gymnastics, handball, ice hockey, ice skating, judo, karate, lacrosse, raquetball, rugby, sailing, scuba, snow ski, soccer, sports car, table tennis, trap & skeet, volleyball, water ski, and weightlifting.

**FREE PLAY**

All recreation areas, Alumni Memorial Gym, and the Physical Education Building, are open to students for free play when the areas are not otherwise scheduled. One or both of these facilities are open seven days a week during the school year to offer students an opportunity for physical exercise on their leisure time. Students may check out necessary equipment upon presentation of their student identification cards. All recreation facilities are for the enjoyment of students, faculty, and staff of The University of Tennessee, Knoxville.

**Aquatics**

The aquatic facilities are designed for year-round entertainment for those who wish to participate in freeform swimming and diving in the most outstanding physical complex in the United States. The Aquatic Center has indoor and outdoor Olympic-size pools where one can enjoy the fellowship and relaxation that comes with aquatic sports. The pool is open Monday through Friday from 12-9 p.m., Saturday from 12-6 p.m., and Sunday from 1-6 p.m. Students and members can also enjoy the sun lamps and relaxed atmosphere found at poolside.

National, regional, and state aquatic events have been held in these great facilities during the past nine years. UT’s aquatic program is designed to meet the needs of all students who want to participate in aquatic skilled activities at no extra expense. The programs are informally organized at convenient hours after the school day is completed. These programs vary and provide for a more wholesome and dynamic future.

1. Skin and scuba diving is offered each quarter with NAUI certification, the most prestigious certification in the country. Equipment is furnished at no charge – safety vests, weight belts, tanks, regulators, snorkels, masks, and fins.

2. Lifesaving is offered to those students desiring American Red Cross certification. The course is taught each quarter, and books and materials are furnished.

3. The Water Safety Instructor course is offered fall, winter, and spring quarters with Red Cross certification. There is no charge for students, and instruction manuals are provided.

4. Beginning swimming is offered to students, faculty, and staff during the summer quarters. This course teaches those who want to improve their swimming skills or want to learn to swim for the first time.

5. Beginning diving is offered to students, faculty, and staff during summer quarter. This course teaches the techniques and skills in the springboard.

6. Water survival is offered to students each quarter. This program provides the student with the basic skills and safety measures for prolonged periods in the water.

7. Varsity swim team practice is held daily throughout the fall, winter, and spring quarters. Many outstanding meets are scheduled here, and the Vols consistently place high in the NCAA Championships.

8. A handicapped swim program is offered one quarter each year for those students who need special care in aquatic activities.

9. Lifeguard School is offered in the Aquatic Center each quarter for specialized training of all lifeguards to be hired.

10. Beginning swimming, intermediate, beginning and advanced diving, swimming, junior lifesaving, and competitive classes are offered to faculty and staff children fall and spring quarters. A competitive swimming
Students needing total care may have this arranged by Health Service physicians, if they choose, in The University of Tennessee Memorial Research Center and Hospital. Because total care is sometimes needed, it is important for the student to secure hospitalization insurance. Student group hospitalization insurance is available and may be purchased during a designated period at the beginning of each quarter.

Health Service personnel will cooperate with students and family physicians to continue good health practices during the university career.

Student Counseling Services Center

The Student Counseling Services Center provides services designed to help students with education, vocational, personal and social problems. Professional counselors work with the student in a setting that allows confidential discussion of the student's concerns. The student may concentrate on a specific problem or work on his/her general adjustment to academic life. Also, 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 and information.

The Center also works with the faculty and student personnel to develop educational programs and projects to meet the needs of various groups at the University. The Center handles student withdrawals from the University and coordinates the course late drop program. An occupational-educational information library and a women's resource library are maintained at the Center for student use.

All students, student spouses, and, to a limited extent, pre-college students are eligible for counseling and services of the Center. Appointments for counseling may be made by phone or in person at the Student Counseling Services Center at 900 Volunteer Boulevard.

Student Rights and Responsibilities

By registering in the University, the student waives his rights or escapes the duties of a citizen. Enjoying greater opportunities than the average citizen, the University student has greater responsibilities. Each student should conduct his personal life 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, Hill Topics, 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.

Religious Influences

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.

CHURCH CENTERS

Church centers are maintained or adjacent to the campus for University students. These are the Baptist Student Center, John XXIII Catholic Center, Presbyterian Student Center, Tenth House (Episcopal), Lutheran Student Center, Wesley Foundation (Methodist), Hillel Foundation, and Christian Student Center.

Student Organizations

On the University campus there is 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 on the campus will be found in Hill Topics. All of these clubs and organizations are under the general supervision of the Student Activities Office.

Social Fraternities and Sororities

The University has chapters of 25 national social fraternities and 19 national social sororities on its Knoxville campus. Membership in these fraternities and sororities is by invitation only.

The Fraternities are: ACACIA Alpha Epsilon Pi Alpha Epilson Phi Alpha Gamma Rho Alpha Kappa Lambda Alpha Gamma Delta Alpha Tau Omega Beta Theta Phi Chi Phi Delta Tau Delta Delta Upsilon Farmhouse Kappa Alpha Kappa Sigma Lambda Chi Alpha Omega Psi Phi Phi Delta Theta Phi Gamma Delta Phi Kappa Psi Phi Kappa Tau Phi Sigma Kappa Pi Kappa Alpha Pi Kappa Phi Sigma Alpha Epsilon Sigma Chi Sigma Nu Sigma Phi Epsilon

The Sororities are: Alpha Chi Omega Alpha Delta Phi Alpha Epilson Phi Alpha Omicron Phi Alpha Xi Delta Chi Omega Delta Delta Delta Delta Gamma Delta Delta Zeta Gamma Phi Beta Kappa Alpha Theta Kappa Alpha Gamma Kappa Delta Kappa Delta Kappa Gamma Phi Mu Phi Beta Phi Sigma Kappa Zeta Tau Alpha
Other University Services, Organizations, and Cultural Opportunities

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. The office does not replace existing structures but helps to insure their more adequate functioning and provides advice in creating ways of meeting the needs of students.

Division of International Education
The Division of International Education, established within the Office of the Vice Chancellor for Affairs, serves as a central point from which the broad range on international and intercultural interests throughout the university community are strengthened and coordinated to each other. Located in 205 Alumni Union, the Division of International Education fosters the development, expansion, and continuation of the University’s basic commitment to the international dimensions of the educational process. In addition to the dissemination of information throughout the university community relative to opportunities for students and faculty to participate in study, research, and other related experiences abroad, the Division supports on-campus international programs, and serves as a major point of contact between the University and other public and private agencies involved in international program development.

Study abroad programs sponsored through the University are coordinated through the Division, and new programs are planned with its assistance. New services include the coordination of orientation programs and charter flights. Other services include a work, travel, and study abroad comprehensive on-line library containing information on work, travel, and study abroad, scholarships and fellowships, and special program information.

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. This service is available to everyone regardless of ability to pay.

The Center serves as a clinical observation and training facility for students majoring in speech and hearing disorders. It also serves as a community Hearing and Speech Center, providing a pre-school for deaf children, aural rehabilitation programs for the hearing handicapped, and speech and language pathology for persons of all ages who have been professionally referred to the Center.

Services to the Physically Disabled
Services relating to academic programs for students with physical disabilities, whether permanent or temporary, are coordinated by the Office of the Dean of Admissions and Records, 305 Student Service Building. In conjunction with the Physical Plant Office, the U.T. Bookstore, the Student Activities Office, and the academic departments, efforts are made to assure that attendance at the University of Tennessee, Knoxville, is possible for students with physical disabilities.

These services include assistance during registration (pre-registration, collection of class schedules, payment of fees, drop and add); 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.

The Office of the Dean of Admissions and Records assists students in the scheduling of special class sections in order to respond to the particular needs of the physically handicapped.

Career Planning and Placement Service
This service is engaged in two major types of activity. First, students are offered the opportunity of receiving many forms of career advising and are provided with a wide range of career literature and audio-visual materials. Second, students and alumni are given several aids for their job search process. These include on-campus interviews, job listings, employer information and address lists, college and alumni service, and training in interviewing, resume writing, and other job search skills.

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. Large student parking areas are located on the perimeter of the campus, and the University provides an intra-campus bus system between these parking areas and the center of the campus at no cost to the student. Faculty and staff parking areas are located throughout the campus.

Each individual is responsible for the motor vehicle in connection with attendance or employment at the University must register that vehicle with the Traffic Section of the Security Department. A University Parking Authority determines the parking policy, traffic regulations, and fees, and this information is published each year in the "University Traffic and Parking Regulations." Copies of the regulations will be available at the time students and staff register their vehicles or register for classes each quarter. Additional copies may be obtained from the Traffic Section of the Security Department.

Cultural Opportunities
Both the University and the surrounding Knoxville area offer varied cultural opportunities. Exhibits, concerts, recitals, and lectures as well as plays are available throughout the year.

THEATRE
The University of Tennessee organization, under the aegis of the Department of Speech and Theatre, presents several programs of plays and films, in three theatre plants — the Clarence Brown Theatre, a two million-dollar plant containing excellent facilities for prosenium staging, standard film presentations, and laboratory productions (in a separate Studio Theatre of the Clarence Brown Theatre); the Carousel Theatre, a unique structure specially designed for arena staging, and for conversion to open-air performances in the summer; the Hunter Hills Theatre, a beautiful and spacious outdoor theatre plant located in the Great Smoky Mountains near Gatlinburg, in which are presented musical productions and other plays suitable for outdoor presentation.

All University students are welcome to read for parts in plays staged in all of these University theatres, and to participate in other aspects of play and film presentations.

ART
Frank H. McClung Museum, in Circle Park, stands as a permanent memorial for "the display, preservation, and study of paintings, works of art, objects of natural history and historical objects." The museum contains five major areas of interest, including permanent exhibit of natural history illustrating the sciences and the Green Memorial Room which contains valued items pertaining to the history of Knoxville and East Tennessee. A major purpose of the museum is to provide superior teaching and research facilities for students, faculty, and staff. Eleanor Deane Audigier Memorial Art Collection features paintings, 19th-century furniture, rare textiles, ceramics, sculpture, and small art objects. On permanent display in the Main Library, the collection was presented to the University by Louis Bailey Audigier in memory of his wife.

Christmas Art Sale is an annual affair held in early December in the McClung Museum. Faculty, students, and regional artists display modestly priced works in time for Christmas buying.

Dogwood National Invitation Art Exhibition is planned each year to coincide with the Dogwood Arts Festival. Held annually in McClung Museum, the exhibition offers a cross section of the world of art. In 1966, the University Center, in cooperation with the UT art department, initiated a program to which the University Center purchases works from this annual art exhibit. These works then become a part of the Ralph E. Dunford Permanent Collection, housed and exhibited in the University Center.

Clothesline Art Show, which is held in the spring each year, displays student art work. The works of art, which are for sale, are exhibited on one of the terraces of the University Center.

Art Auction, held in Carousel Theatre each spring, is a means of raising scholarship funds for art students. Original works of leading local and national artists as well as those of outstanding students in the art department, are auctioned to the public. There is a nominal admission charge and unique door prizes are given throughout the auction.

MUSIC
UT Choral Groups consist of five choirs and glee clubs, all of which are outstanding. The UT Singers, the Women’s Glee Club, Madrigal Singers, Vol Chorus, and the UT
Chorus perform in choral concerns in the Knoxville area. These choirs are open to all students by audition.

**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. The Singers have in the past been the musical company for all Hunter Hill Theatre productions.

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

**UT Bands.** UMarching band, celebrated as "The Pride of the Southland," presents outstanding entertainment on football Saturdays at both home and out-of-town games.

During winter and spring quarters, the band is divided into two concert groups which tour the South. The pep band 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 and of Student Recitals presented by upperclass and graduate members of the music department in partial fulfillment of degree requirements.

**Scottish Rite Masonic Chair of Choral Art** brings to the Knoxville area a distinguished conductor and/or composer in the field of choral art who serves as guest lecturer at a University workshop.

**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 a major concert series, a mini-concert series and the much smaller Guest Artist series.

**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 quarter the issues Committee presents programs around a current theme. The program is centered around speakers who are considered experts and represent diverse points of view on the designated topic.

**BROADCASTING**

WUOT, the University's 100,000-watt radio station, broadcasts fourteen hours each day to all of eastern Tennessee and portions of adjacent states. WUOT is primarily a fine music station, featuring the full repertoire of the world's great music. Musical programs are supplemented by broadcast versions of great plays, by many documentary programs on contemporary problems, and by university-level discussion and exposition.

**Annual Faculty Phi Kappa Phi Lectures**


**Athletics**

The University encourages athletics as a part of its educational program. Men's intercollegiate sports are directed by the department of athletics, and the women's intercollegiate sports are coordinated through the office of student affairs and are under the direction of the Physical Education Division.

There are women's teams in basketball, field hockey, gymnastics, swimming, tennis, track and field, and volleyball. Intercollegiate varsity games are played according to the rules of the Tennessee Women's Sports Federation and the Association of Intercollegiate Athletics for Women. Eligibility for participation is determined by TCWSF, AIAW and the University faculty.

The men's intercollegiate sports are: baseball, basketball, cross-country, football, golf, swimming, tennis, track and wrestling. Intercollegiate varsity and junior varsity games are played under the rules of the Southeastern Conference. Eligibility to participate is determined by the University faculty and the Conference.

A varied intramural and sports club program is provided for all students. These programs are directed by the office of recreation and are housed at the student athletic center.

**NEYLAND STADIUM**

Neyland Stadium, the University's football stadium, was named in memory of the late General Robert R. Neyland, long-time football coach and athletics director. Shields-Watkins Field, the football 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 presently accommodate 80,000 spectators.

**STOKEY ATHLETICS CENTER**

The hub of the University's sports program is Stokey Athletics Center, which houses a 13,000-seat basketball arena and a fine indoor track. Also located here are coaches' offices, dressing rooms for all sports, and a Hall of Fame room.

**OTHER FACILITIES**

The University is proud, too, of its Tom Black Track, host to track and national meets and built to Olympic specifications. The Student Aquatic Center, with its indoor and outdoor Olympic-size pools, separate diving pools, water polo pool, sauna baths, and extensive exercise facilities, is a top spot of interest on the campus. Hudson Field, newly remodeled baseball field and stadium seating 1,500 fans in addition to providing dugouts and press box facilities, is one of the best complexes in the conference. Also, new tennis courts will afford an excellent vantage point for spectators.

**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,** student newspaper, **The Volunteer,** yearbook of campus activities, and **The Phoenix,** quarterly literary magazine, are sponsored by The University of Tennessee 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 Inter-Fraternity Council, to acquaint male students with the fraternities.

**The Tennessee Engineer,** published quarterly 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.

**Traditions**

Traditions play an important part in the life of a University student. For instance, the Volunteer Symbol, spirit of the State and the University, is ever present. But traditions at the University may be light-hearted as well as serious. Among the less serious traditions are those annual all-student productions which have become part of the University way of life. These are the musicals, the Homecoming, the off-kilter and the spangle and wit of Carnivus.

Homecoming is a time when former students return to the University to visit and to renew old friendships. This is also the time
when alumni will have an excellent opportunity to interact and see what students are saying and doing.

All-Sing, begun in the early 1930’s to encourage interest in harmony groups, features outstanding singing groups representing campus organizations. Carnacus, which began as a parade and presentation of a Carnival Queen, has evolved through the years to the present form of competitive skits put on by campus organizations. This entertainment event features skits chosen for their humor, continuity, and perfection of presentation.

The Memorial Research Center and Hospital

The University of Tennessee Memorial Research Center and Hospital is a modern medical facility located just off the Alcoa Highway in Knoxville. The 520-bed general hospital provides patient care and training programs for interns, residents, senior medical students, nurses, medical technologists, x-ray technicians, and ancillary health personnel. Out-patient services are furnished to both area residents and University of Tennessee students. A modern medical library is available for student and physician use. The Research Center conducts an active and vigorous research program that centers on hematological and oncologic problems. Excellent facilities for animal and laboratory experimentation are available. Postgraduate studies are pursued in cooperation with other life-science departments of the University. Special clinical investigations and the testing of experimental drugs involve both research and hospital staff and facilities. A continuing seminar and conference program presented by hospital and research staff and visiting lecturers serves to acquaint local medical and life-science workers with the most recent scientific developments.

University Publications

The various colleges, departments, and continuing education units composing the University issue publications dealing with their educational, research, and public service programs. In addition, several publications are issued on a University-wide basis.

The University of Tennessee Record includes the General Catalog, Graduate School Catalog, Report on Research and Publications, Pictorial Record, and other publications of a record nature. The Torchbearer, issued four times a year, contains news, pictures, and other information about UT’s teaching, research, and continuing education activities and is distributed to alumni, faculty and staff, and friends of the University. Other publications on programs of the institution may also be issued on a University-wide basis in response to requests of the various colleges, departments, and continuing education units. All of the publications are for free distribution.

University publications are under the general supervision of The University of Tennessee, Knoxville, Publications Committee appointed by the Chancellor of the University. The operating office for this committee is the Publications Service Bureau, located in the Communications and University Extension Building. Technical services of the Publications Service Bureau are offered to all colleges, departments, and other units of the University needing assistance with publication design, artwork, copyreading, editing, proofreading, and preparing specifications for printers. These services assist University departments in issuing the highest quality of publications possible within their printing budgets.

Learning Research Center

Recognizing that the learning process is exceptionally complex, the University established the Learning Research Center in 1964. Its primary purpose is to encourage faculty members to utilize the results of research in creating arrangements and conditions for learning. The Learning Research Center publishes the Teaching-Learning Issues quarterly which circulates throughout the University system and on other campuses across the nation.

The University of Tennessee Press

The University of Tennessee Press is the institution’s agency for the publication of scholarly books and monographs, nonfiction works of general and regional interest, and specialized textbooks for Tennessee and the Southeast. Manuscripts are solicited from University personnel and other authors. The Press imprint is controlled by an Editorial Board, to which recommendations are made by the Director acting with the counsel of scholarly appraisers, and the books are distributed on a sales basis. The Press office is located in the Communications and University Extension Building.

Computing Center

The University of Tennessee Computing Center (UTCC) provides computing facilities for the academic community of the University at large. It is intended for use by all academic staff whose work requires a modern computational facility and all students whose course work or research entails the use of computer methods. UTCC also furnishes computer services for the administration.

Both timesharing and batch processings are offered through the Center’s IBM 360/65 and DEC System 10 and IBM computer systems. In addition to the usual peripheral devices, a plotter is available for graphical output. The UTCC administrative offices and the majority of the programming staff are housed in William B. Stokely Center for Management Studies.

Consulting services are available for students and faculty engaged in educational or research projects which utilize the computer facilities. Various non-credit short courses in computer programming and utilization are offered, free of charge, throughout the year. The Computing Center also publishes a User’s Guide which describes in detail the facilities and programming systems available at UTCC. Further information about UTCC can be obtained through the administrative offices of the Computing Center.
The University of Tennessee, Knoxville offers a graduate program which is one of the largest and most comprehensive to be found in the nation. Courses of study leading to Master's degrees are available in almost all colleges and schools. The University's present doctoral programs were initiated about thirty years ago and have expanded rapidly, with Doctor's degrees presently offered in fifty areas. Additional fields are being added as warranted by expanding faculty and facilities.

The principal aim of the Graduate School is that of education beyond the Bachelor's level through advanced courses, seminars, and research. The total resources of the University are made available to graduate students through its various colleges, schools, and special services. Each student is expected to take full advantage of the opportunities offered in the field of study and to maintain a high quality of achievement in the various phases of the program. To assist the student, certain procedures and regulations are described in subsequent paragraphs. These are formulated by the Graduate Council and administered by the Vice Chancellor for Graduate Studies and Research. The program of an individual student may be quite flexible but should still remain within the framework of the degree programs approved by the Council. Each student should be acquainted with the rules and procedures, as well as with any special requirements of individual colleges or departments.

General Information

Knoxville campus: The main and most varied offerings of the Graduate School are available at the Knoxville campus where advanced study at both the Master's and Doctor's level is provided in almost every college. More limited opportunities may be found at other locations as indicated below. Complete information concerning the Graduate School may be found in the Graduate Catalog, copies of which may be obtained by writing the Vice Chancellor for Graduate Studies and Research, The University of Tennessee, Knoxville, Tennessee 37916.

The University of Tennessee Space Institute: Opportunities for graduate study and research leading to the degrees of Master of Science and Doctor of Philosophy in areas of engineering and science, particularly pertinent to aerospace technology, are offered by the Space Institute located near the Arnold Engineering Development Center, Tullahoma, Tennessee. Course work and research work in related areas of environmental pollution control, earth resources, energy conversion, materials and systems and simulation are also available. Formal course work toward graduate degrees is provided at the Institute and at the Knoxville campus. The close Institute-Center relationship provides unique facilities and opportunities for research work in aerospace technology. Further information concerning the Institute may be obtained from the Dean, The University of Tennessee Space Institute, Tullahoma, Tennessee 37388.

Kingsport University Center: The University of Tennessee offers at Kingsport resident graduate programs in science, engineering, and business at both the Master's and Doctor's level. The program is operated within the policies set by the Graduate Council of The University of Tennessee and is administered by the Vice Chancellor for Graduate Studies and Research. It is coordinated with the graduate and undergraduate offerings of East Tennessee State University.

Students who enroll in this program must be admitted to the Graduate School of The University of Tennessee either as degree candidates or non-degree graduate students. Information and appropriate application forms may be obtained by writing to: Director, Kingsport, University Center, The University of Tennessee, P.O. Box 9, Kingsport, Tennessee 37662.

Oak Ridge Resident Graduate Program: The Graduate School, in cooperation with the Oak Ridge Associated Universities and Union Carbide Corporation, offers a graduate study program at Oak Ridge. Programs leading to the Master's degree in business administration, industrial education and statistics and to the Master's or Doctor's degree in the biological sciences, chemical and metallurgical engineering, chemistry, engineering science, mathematics, management, and physics are available. Information regarding these programs may be obtained by writing the Director, The University of Tennessee Graduate School, Post Office Box 117, Oak Ridge, Tennessee 37830.

Radiation Biology: A graduate major in the field of radiation biology leading to the M.S. and Ph.D. degrees is offered through the Institute of Radiation Biology. On the Institute staff are scientists from the Departments of Biochemistry, Botany, Chemistry, Microbiology, Physics, Zoology, the Memorial Research Center, and the UT-AEC Agricultural Research Laboratory of The University of Tennessee, the Biology and Ecology Physics Divisions of the Oak Ridge National Laboratory, and the Medical Division of Oak Ridge Associated Universities. Areas of specialization include biochemistry, biophysics, cytology, ecology, electron microscopy, embryology, entomology, genetics, hematology, immunology, microbiology, molecular biology, oncology, parasitology, pathology, physiology, and tissue culture.
School of Social Work: The University of Tennessee offers a fully accredited two-year program leading to the degree of Master of Science in Social Work, with programs in Nashville, Knoxville, and Memphis. The program is designed to prepare personnel for positions in family and child welfare agencies, psychiatric social work, school social work, medical social work, social group work, social welfare administration, community organization, corrections, rehabilitation, and service to the aging. Professional skills may be concentrated in the areas of social work treatment, and social welfare administration and planning. Information regarding admission and programs may be obtained from the Dean of the School of Social Work, The University of Tennessee, P.O. Box 8820, Knoxville, Tennessee 37916.

Chattanooga Engineering Graduate Program: The University of Tennessee, Knoxville, offers a program of graduate work at Chattanooga leading to the Master's degree in the areas of engineering. Courses are given at The University of Tennessee at Chattanooga in the late afternoons and evenings. Students who enroll in this program must be admitted to the Graduate School of the University of Tennessee, Knoxville, either as degree candidates or unclassified graduate students. Information concerning this program may be obtained from the Director, Chattanooga Engineering Graduate Program, The University of Tennessee at Chattanooga, Chattanooga, Tennessee 37401.

The University of Tennessee at Nashville: Opportunities for graduate study leading to the degree of Master of Science in areas of civil engineering, engineering administration, industrial engineering, and public administration are offered by The University of Tennessee, Knoxville, and are administered by the Vice Chancellor for Graduate Studies and Research. Students who enroll in those programs must be admitted to The University of Tennessee, Knoxville, as degree candidates or non-degree graduate students. Information and appropriate forms may be obtained from the Registrar, The University of Tennessee, 323 McLemore, Nashville, Tennessee, 37203.

The University of Tennessee — Oak Ridge Graduate School of Biomedical Sciences: The University provides at Oak Ridge, Tennessee, a program leading to a Ph.D. degree in various areas of biomedical sciences. Advanced graduate students will have the opportunity to study and do research in conjunction with the Biology Division of the Oak Ridge National Laboratory.

Information concerning this program is available from the Director, The University of Tennessee — Oak Ridge Graduate School of Biomedical Sciences, Biology Division, Oak Ridge National Laboratory, Box Y, Oak Ridge, Tennessee 37830.

ASSISTANTSHIPS AND FELLOWSHIPS
Non-Semester Fellowships supported by the University are awarded on the basis of ability and without regard to the field of study of the candidate. Successful applicants will need better than an overall 3.0 grade point average and high Graduate Record Examination scores. The normal deadline for receipt of completed applications is mid-February. Fellowships or traineeships in special areas are sometimes supported from non-University sources. Information concerning these fellowships, as well as application blanks, may be obtained from the Fellowship Assistant, the Graduate Office. Graduate assistantships and additional fellowships are offered through many departments of the University. The stipends usually carry remission of tuition and fees. Information concerning these opportunities and appropriate application forms may be secured by writing to the head of the department in which the student expects to do his major study.

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**College of Agriculture**

Agricultural Biology
Agricultural Economics
Agricultural Engineering
Agricultural Extension
Agricultural Mechanization
Animal Science
Food Technology
Forestry
Ornamental Horticulture
and Landscape Design
Plant and Soil Science
Wildlife and Fisheries Science

**College of Business Administration**

Accounting
Economics
Finance
Governmental Financial Administration
Industrial Management
Management
Management Science
Marketing
Real Estate and Urban Development
Statistics
Transportation and Logistics

**College of Communications**

Communications

**College of Education**

Adult Education
Agricultural Education
Art Education
Business Education
College Student Personnel
Curriculum
Curriculum and Instruction
Distributive Education

**ADMISSION TEST REQUIRED**

G.B.A., D.B.A.
M.B.A., M.S., PH.D.
M.B.A., D.B.A.
M.B.A., D.B.A.
M.B.A., M.A., M.S., PH.D.
M.B.A., D.B.A.
M.B.A., D.B.A.
M.B.A., D.B.A.
M.B.A., M.B.A.
M.B.A., D.B.A.

**LETTER OF RECOMMENDATION**

3-Former Professors
3-Former Professors
3-Former Professors

5—All Ed.S., Ph.D. and Ed.D. applicants obtain special forms from the Graduate School.
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All M.S. and Ph.D. applicants obtain special application forms from Associate Dean, College of Home Economics.
## Majors and Degrees Available

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### School of Biomedical Sciences

- Biomedical Sciences: M.S., PH.D.
- Library Science: M.S.L.S.
- Social Work (Memphis, Nashville and Knoxville): M.S.S.W.

### School of Library and Information Science

Library Science: M.S.L.S.

### School of Planning

Planning: M.S.P.

### School of Social Work

(Memphis, Nashville and Knoxville): Social Work: M.S.S.W.

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1. Offered only at UT Space Institute.
2. Offered also at Oak Ridge and Kingsport.
3. Department doctoral option offered under the major of Home Economics.
4. Interdisciplinary option offered in each department.
5. Ph.D. applicants only.
6. American applicants only.
7. ED.D. applicants only.
8. ED.D. applicants only.
9. International applicants only.

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## Graduate School of Biomedical Sciences (193)

Daniel Billen, Director

### Full-Time Faculty

Professor: D. Billen (Director), Ph.D. Tennessee.

Associate Professor: F.H. Gaetner, Ph.D. Purdue; F.D. Hamilton, Ph.D. Pittsburgh; D.E. Olin, Ph.D. Rockefeller.

Assistant Professor: N.W. Revis, Ph.D. University of Glasgow (Scotland)

Research Assistant Professor: C.T. Hadden, Ph.D. Washington.

The University of Tennessee — Oak Ridge Graduate School of Biomedical Sciences, established in 1966 under the joint auspices of The University of Tennessee and the Biology Division of Oak Ridge National Laboratory, is a novel venture in scientific graduate education. The National Laboratory, one of the three installations operated at Oak Ridge by Union Carbide Corporation for the United States Energy Research Development Agency, is a well-known center of basic research in biology, chemistry, physics, mathematics, metallurgy, health physics, and ecology. The school utilizes the staff and facilities of this large federal research institute, thus bringing directly into the mainstream of full-time graduate study in the life sciences the talent and experience of that staff, as well as the most advanced research methods.

The program of study, which incorporates a high faculty-to-student ratio, is based on intensive graduate courses supplemented by tutorial instruction, participation in a wide variety of seminars, and a heavy emphasis on research training and independent study. The program encourages and requires students, through individual initiative and self-discipline, to pursue graduate studies to the limits of their abilities.

The school is not departmentalized and apart from certain basic requirements, each student’s curriculum is planned to meet his individual needs, with the aim of giving: (1) strength in the basic sciences; (2) perception of the biomedical sciences as a whole; and (3) experience and training in a chosen specialty.

The four research areas available for a Masters and Ph.D. thesis work are biochemistry, cellular, developmental and mammalian biology, bio-physics, and genetics. Included are such subjects as: microbiology, cell physiology, immunology, protein and enzyme chemistry, nucleic acid chemistry, cytology, radiation biology, virology, developmental biology, carcinogenesis, plant physiology and photosynthesis, experimental pathology, microbial and mammalian genetics, and problems of aging.

The Graduate School of Biomedical Sciences publishes supplementary information in addition to the regular Graduate Catalog. All inquiries concerning admission should be addressed to: Director, The University of Tennessee — Oak Ridge Graduate School of Biomedical Sciences, Biology Division, ORNL, P.O. Box Y, Oak Ridge, Tennessee 37830.

### Courses

5000 Thesis

5070-80 Physical Chemistry for the Life Sciences (3, 3)

5110-20 Biochemistry (3, 3)

5140 Biophysics I (3)

5150 Biophysics II (3)

5160 Advanced Genetics (3)

5170 Molecular Genetics (3)

5180 Cell Biology I (3)

5190 Cell Biology II (3)

5200 Mammalian Physiology (3)

5230 Biochemical Concepts In Medical Science (3)

5310-20-30-40 Biomedical Sciences Laboratory (3, 3, 3, 3)

5350 Biomedical Sciences Seminar (3)
Students in other colleges may elect a minor in library science with the approval of their faculty advisers. The undergraduate minor is planned for the following groups of people: (1) Students preparing for positions as school librarians in elementary and secondary schools; (2) teachers who wish to become better acquainted with books and other instructional materials; (3) school administrators who wish to explore the place of the library in the instructional program; (4) prospective candidates for the graduate program in library education; (5) persons seeking a position at the level of Library Associate as described in the manpower policy of the American Library Association.

The minimum requirements for a full-time position as school librarian in the State of Tennessee (both elementary and secondary) can be met through fulfilling the requirements for teacher certification and completion of the following library courses: 3510, 3520, 3530, 4140, 4150, 4270, 4330, and 4750.

The Graduate Program

The objective of the program is to prepare individuals to assume a role in the libraries and information centers of today and the future. Students are exposed to various ideas about the role of libraries and information centers in society and the processes by which knowledge is communicated through the medium of the graphic record. Students acquire a familiarity with the bibliography and the literature of various subject fields. They are expected to develop the ability to evaluate and use various types of print and non-print materials and are also introduced to current concepts of the management of library operations and services.

The basic professional core curriculum, designed to provide sound foundations in principles applicable to all types of libraries, is augmented by elective choices within library and information science and as other disciplines represented in the university community. For further information write for a Graduate School Catalog.

UNDERGRADUATE

3510 Books and Related Materials for Children (3) Readings based on materials suitable for children in leisure time or classroom activities, criteria for selecting books, magazines, recordings, films, and related materials; story-telling and other devices for encouraging reading. Undergraduate credit only. Prereq: Admission to teacher education or junior standing. (Same as Educ. C & I 3510.)

3520 Books and Related Materials for Young People (3) Basically same approach as 3510, but adapted to needs and interests of teenagers. Undergraduate credit only. Prereq: Admission to teacher education or junior standing. (Same as Educ. C & I 3520.)

3530 Books and Related Materials for Adults (3) Principles of materials selection, selection aids, annotations, book reviews, evaluation of adult books in various subject areas. Undergraduate credit only. Prereq: Admission to teacher education or junior standing.

4140 Libraries and Librarianship (3) Historical development of libraries in society and their role and significance in twentieth century; career aspects of librarianship; professional ethics and associations.

4150 School Library Administration (3) Objectives, functions, and place of school library; relationship to local and state services; cooperative plans for quarters and materials; evaluation. (Same as Educ. C & I 4150.)

4270 Organization of Library Collections I (8) Acquisitions, cataloging and maintenance of library collections.

4330 Introduction to Reference Materials (3) Basic information sources and services for all libraries.

4750 Audiovisual Methods and Techniques (3) (Same as Educ. C & I 4750 and Vocational-Technical Education 4750.)

GRADUATE

5000 Thesis

5110 Problems in Library Science (3)

5120 Problems in Library Science (3)

5130 Problems in Library Science (3)

5140 Research Methods in Library Science (3)

5200 Subject Reference and Bibliography (3)

5210 Sources and Services for the Social Sciences (3)

5220 Sources and Services for the Natural Sciences (3)

5230 Sources and Services for the Humanities (3)

5240 Organization of Library Collections II (3)

5250 Government Publications I (3)

5260 Government Publications II (3)

5270 Legal Bibliography (3)

5300 Library Management (3)

5310 Library Systems and Services (3)

5320 Library and Information Networks (3)

5330 Academic Libraries: Seminar (3)

5340 Public Libraries: Seminar (3)

5350 School Libraries: Seminar (3)

5360 Technical Libraries and Information Centers: Seminar (3)

5370 The Library in the Community (3)

5400 Library Facilities (3)

5500 Principles of Materials Selection (3)

5510 Multimedia Resources in Libraries (3)

5520 History of Books and Printing (3)

5530 Contemporary Publishing (3)

5540 Special Collections — Archives and Rare Books (3)

5600 Reading Guidance for Children and Young People (3)

5610 Mass Communications and the Library (3)

5620 Traditional Literature and Oral Narration (3)

5630 Critical History of Children's Literature I (3)

5640 Critical History of Children's Literature II (3)

5691 Production and Use of Audiovisual Materials (3)

5700 Automation of Library Processes (3)

5710 Introduction to Information Science (3)

5720 Information Systems Analysis and Design (3)

5730 Information Retrieval Systems Laboratory (3)

5740 Information Processing on Computers (3)

5999 Practicum (6, 9, or 12)

GRADUATE SCHOOL OF PLANNING (782)

J.A. Spencer, Director

The Graduate School offers a two-year graduate course leading to a degree of Master of Science in Planning.

The purpose of study is the education of professional planners, competent to handle positions of increasing technical and administrative responsibility. Graduates are candidates for professional service in regional, city, county, and metropolitan area planning agencies; in local, state, and federal agencies concerned with physical, economic, and administrative planning; in private business and organizations dealing with urban problems; and in private consulting practices.

The school, located in Knoxville, is in an excellent position to draw on the knowledge of the nation's, and perhaps the world's, outstanding regional planning and development agency, the Tennessee Valley Authority. The students can also view and study the close-at-hand economic problem area of Appalachia.

The Field of Planning

Planning is one of the challenging techniques by which modern man seeks to harness new methods and technologies in urban growth, economic development and redevelopment, housing, and transportation. Planning seeks to improve not only the physical but also the economic and social environment of the individual. Through the use of public policies, and through maximum cooperation between private economics and public purposes, it seeks to increase the opportunity of the individual; to better his chances for a decent job and a decent home in a community of which he is proud. Planning does not accept our present urban and rural environment as the best of all possible worlds. The planner can expect a challenging, sometimes frustrating, but always rewarding career.

Planning is a rapidly evolving field, but at present it is chiefly concerned with two general areas. Regional and state planning is concerned primarily with economic and resource regions, the forces that generate economic growth, and the ways in which state and regional resources can be organized to generate area development. Urban planning is concerned primarily with understanding the urban environment, the social and economic forces that affect it, and the administrative and technological means by which it may be guided.

Graduate Education in Planning

The curriculum is organized on a basis of six quarters, or 72 credit hours, including a nine-credit thesis. The curriculum provides the student with core courses in planning theory, methods, and techniques, and also takes advantage of rich offerings at The University of Tennessee in related fields such as government, economics, geography, civil engineering, and sociology.

The course of study ordinarily requires two years, with a work internship during the summer between the two years. However, students entering the school with previous planning experience have an option of taking six consecutive quarters of study, utilizing the summer period. Planning courses as well as related courses will be offered during the summer period.

The purpose of this is to serve the needs of those planners now in the field, who wish to acquire their professional degree but who can spare only the minimum amount of time from their jobs because of financial or family considerations. By going to school for six consecutive quarters they do not face the problem of having to move their family during the three-month period between school years.

Entering students follow a suggested program of courses which provides training in the basic elements of planning. These include studies in theory, history, analytical methods, design, and legislation, as well as related courses in government, geography, sociology, and economics. Students in the latter quarters of the first year, and in the second year, have the option of pursuing studies in an urban concentration or a regional concentration. They are permitted to pursue particular interests through the choice of electives approved by the Graduate School of Planning. Practice in research and analysis on a particular planning problem or topic is obtained through the preparation of an individual thesis. A comprehensive written examination on previously taken graduate course work will be given to students who have finished their first year of study and before they have finished their second year of study. An oral examination will be given on the thesis subject prior to graduation.

Faculty

Core planning courses are taught by the full-time faculty of the Graduate School of Planning. Related courses are taught by other specialists drawn from the University faculty. In most instances these are senior faculty members. In addition, the services of experienced professional planners in TVA and other public and private organizations are called upon to broaden the scope of the students' understanding. A variety of outside speakers and seminar leaders provides insight into particular problems of significance to planners.

UNDERGRADUATE

4100 Introduction to Planning (3) History of planning, familiarization with operations of contemporary planning, concept of systems, current trends and issues. Emphasis on relationship between planning and society in which it occurs.

4200 Planning Communications (1) Graphic, oral and written communication of information and recommendations.

GRADUATE

5000 Thesis

5100 Theory of Planning (4)

5130 Planning Research Methods I (3)

5135 Planning Research Methods II (3)

5160 Planning and Utilities (3)

5230 Urban and Site Design (2)

5270 Planning and Transportation (3)

5280 Planning Methods (5)

5300 Regional Planning (3)

5310 State Planning (3)

5340 Implementation (3)

5350 Urban Spatial Structure (2)

5360 New Towns (2)

5380 Housing (2)

5410-20-30 Special Topics in Planning (1-3, 1-3, 1-3)

5440 Legislation and Land Use Controls (4)

5450 Urban Renewal (2)

5500 Synthesis (9)

5670 Social Planning (3)

Graduate School of Social Work (905)

Ben P. Granger, Dean

Robert C. Bonovich
Branch Director, Nashville
Roger M. Noe, 
Branch Director, Knoxville

Mary K. Mullins 
Branch Director, Memphis

Professor: 
P.R. Graner (Dean), Ph.D. Brandeis; M.H. Bloch, M.S., Ohio State; R.C. Bonovich, D.W. Washington University, St. Louis; G.W. Fryer, Ed.D., Columbia; B. Orchard (Emeritus), M.S., Western Reserve; A.J. Robins, M.S.W. Carnegie Institute of Technology; S.W. Spencer (Emeritus), M.S., New York School of Social Work. M.A. Stites (Emeritus), A.M. Pennsylvania.

Associate Professors: 

Assistant Professors: 
L.M. Beasley, M.S.S.W. Tennessee; W.J. Bell, M.S.W. Michigan; G.E. Bowen, M.A. George Washington, A.R. Ford, M.S.W. Atlanta; R.K. Hampton, M.S.W. Pennsylvania; J.G. Stollold, M.S. Hunter College; S.A. Webster, M.A. Wisconsin; H.A. Wilson, M.S. S.A. Western Research University.

The University of Tennessee School of Social Work is a fully accredited, two-year graduate professional school, with a program leading to the degree of Master of Science in Social Work. Founded in 1942, the School is a charter member of the Council on Social Work Education and was initially accredited by its predecessor, The American Association of Schools of Social Work.

The School’s objectives are to prepare students for competent and responsible social work practice; to assist social welfare agencies and staffs; to increase the quality and quantity of service through the provision of special courses, institutes, and workshops; to provide appropriate educational experiences for students preparing for related fields; to advance standards of professional practice, particularly in this region, through collaboration with social welfare agencies and educational institutions.

The full two-year curriculum is offered in all three branch locations.

The two-year graduate program qualifies students for positions in public and voluntary social service agencies including family and child welfare, medical and psychiatric social work, social group work, social welfare administration, community organization, corrections, rehabilitation, and services to the aging.

The Graduate School of Social Work publishes its own catalog. All inquiries concerning admission to the School of Social Work should be addressed to Vice Chancellor for Graduate Studies, University of Tennessee, Knoxville, Tennessee 37916.

Courses

5000 Thesis
5020 Social Work Research I (3)
5021 Social Work Research II (2)
5081 Evaluative Research in Social Work (2-3)
5082 Practicum in Social Work Research (3-9)
5083 Directed Readings in Research (2-4)
5090 Special Problems in Social Work (2-9)
5110 Social Welfare Policy and Services I (3)
5120 Social Welfare Policy and Services II (3)
5130 Social Policy Analysis (2-3)
5161 Social Welfare Seminar (2-3)
5210-20 Human Behavior and Social Environment I and II (3, 3)
5290 Special Accelerated Program in Social Work (15)
5310 Human Behavior and Social Environment (2)
5311 Imaginative Perspectives on the Human Condition (2)
5312 Psychopathology and Social Deviance (2-3)
5313 Deviant Behavior of Children and Youth (2-3)
5314 Comparative Theories of Personality (2-3)
5315 Human Sexual Problems (2-3)
5316 Mental Health and Employment (2-3)
5410 Social Work Practice I (3)
5420 Social Work Practice II (3)
5440 Family Therapy in Social Work Practice (2-3)
5441 Transactional Analysis (2-3)
5442 Short-Term Treatment (2-3)
5443 Seminar on Behavior Therapy (2-3)
5444 Social Work Practice with the Poor (2-3)
5460 Social Work Practice with Individuals and Families (3)
5470 Contemporary Treatment Modalities: Individual and Family (2-3)
5560 Social Work Practice with Groups (3)
5561 Interpersonal Skill Development (2-3)
5570 Comparative Methods of Group Treatment (2-3)
5601 Social Work in Rural Communities (2-3)
5661 Community Organization (2-3)
5670 Social Planning (3)
5671 Planning and Management of Change in Social Welfare (2-3)
5701 Administration in Social Work (2)
5702 Organizational Design of Social Welfare Agencies (3)
5741 Supervision in Social Work (2)
5742 Consultation in Social Work (2)
5743 Management of Human Resources in Social Welfare (2-3)
5744 Education and Training in Social Welfare (2-3)
5745 Professional Leadership in Social Work (2-3)
5761 Social Welfare Administration and Planning (3)
5762 Seminar in Social Welfare Administration and Planning (3)
5771 Information Systems and Decision Making (2-3)
5772 Financial Management for Social Welfare Administration (2-3)
5800 Management of Residential Settings (2-3)
5812 Organizational Perspectives in Juvenile Justice (2)
5820 Social Aspects of Illness (2)
5825 Drugs: Use and Abuse (2-3)
5826 Social Work Treatment for Marital Adjustment (2-3)
5830 Law and Social Work (2-3)
5860 Social Gerontology (2-3)
5865 The Roles of Women (2)
5910-20 Field Practice (3, 4)
5930-40-50 Field Practice (8, 8, 8)
5961 Integrative Seminar (2)
5970 Outcomes in Social Work Practice (2-3)
5980 Practicum in Governmental Social Welfare Policy Making (2-3)

Engineering Administration

COMMITTEE:
H.L. Loveless, Chairman
J.F. Bailey
H.D. Dewhurt
F.A. Chambliss
D.W. Cravens
W.G. Sullivan
R.L. Young

A program of study leading to the degree of Master of Science with a major in Engineering Administration is offered. This program is aimed at providing education for graduate engineers in the organization and direction of work in engineering functions, at a level which requires understanding of such areas as marketing, finance, and industrial relations. It should be emphasized that this is an engineering program, aimed at preparing individuals for line management positions in construction, design, development, manufacturing, etc., where both technical and non-technical factors exert significant influence on the success of a given activity.

The program does not provide the opportunity for in-depth study of any of the traditional areas of business administration, and students with such interests are advised to consider graduate programs available in the College of Business Administration.

To be admitted to the Graduate School as a potential candidate for a Master’s degree in Engineering Administration, the applicant must submit reasonable evidence of ability to prepare graduate study at an acceptable level of performance. In general, the applicant must have graduated from a recognized undergraduate institution in engineering or science with a satisfactory grade point average. In addition, applicants must satisfy one of the following experience requirements: (1) at least two years of engineering experience after graduation if a full-time student or (2) current employment in engineering work if a part-time student.

THE MASTER’S PROGRAM

Minimum requirements for the Master’s degree are the satisfactory completion of the following courses:
1. An Engineering Core, twenty-seven hours of graduate credit consisting of
Engineering Administration 5900, at least two courses chosen from Industrial Engineering 4150, 5520, 5700, 5710 and 5720, and a complement of engineering courses normally
selected from the student's undergraduate major department or from courses of other departments pertinent to this program.

2. A Business Administration Core, fifteen hours of graduate credit consisting of Accounting 5810, Business Law 5050, Finance 5050, Marketing 5050, and one of the following: Industrial Management 5130 or Transportation 5210.

3. General Electives, nine hours of graduate credit chosen from computer science, economics, engineering, management science, mathematics, psychology, statistics, and other program-related disciplines. These electives shall not include courses in business administration, other than economics, management science and statistics.

The program requirement totals fifty-one hours of graduate course credit. No thesis is required. A final examination must be passed on the work offered for the degree. Course prerequisites for the program are Accounting 5050, Computer Science 3150, Industrial Engineering 4520, and Statistics 3450 or their equivalents. None of these prerequisites may be counted as part of the 51 hours of credit offered for the degree. These course prerequisites will be waived upon presentation of evidence of competency in the course subjects. Other prerequisite courses may be required, depending upon the electives chosen.

COURSE
5900 Project in Engineering Administration (3)

Space Institute
Charles H. Weaver, Dean

Aviation Systems (169)

Professors: G.W. Braun (Emeritus), Ph.D., Goettigen; L.W. Crawford, Ph.D. Cincinnati; W. Frost Ph.D. Washington (Seattle); B.H. Goethert, Ph.D. Berlin; A.A. Mason, Ph.D., Columbia; K.C. Reddy, Ph.D. Indian Institute of Technology (India); F. Shahroki, Ph.D. Oklahoma; P.S. Sleeper, A.M. Harvard; M.A. Wright, Ph.D. Wales; J.M. Wu, Ph.D. California Institute of Technology; R.L. Young, Ph.D. Northwestern.

Associate Professors: S.N. Chaudhuri, Ph.D. Indian Institute; L.B. James, M.S. Southern California; K.R. Kimble, Ph.D. Ohio State; C.C. Roberts, M.S. Cranfield; J.D. Trolinger, Ph.D. Tennessee.

Assistant Professor: R.H. Kohl, Ph.D. Ohio State.

The University of Tennessee Space Institute offers this program leading to the Master of Science with a major in Aviation Systems. The Aviation Systems program is designed for those who possess bachelor's degrees in engineering or science and who wish to study under a "systems philosophy" toward careers in research and development or administration in various phases pertinent to aviation. The program features 18 quarter hours major field credit in various aspects of aviation systems, 6 or more quarter hours credit in each of the areas of research-development and administration and electives which permit further specialization in either area.

Courses
5000 Thesis
5070 Airports and the Community (3)
5080 Collection and Distribution (3)
5090 Governmental Policies for Aviation (3)
5100 Project in Aviation Systems (3)
5210-20 Experimental Flight Mechanics (3, 3)
5970 Special Topics in Aviation Systems (3)

Cybernetics and Bionics (262)

Professors: T.C. Helvey, D.Sc. H.C., University of the Atlantic; R.S. Sleeper, A.M. Harvard

Associate Professor: L.B. James, M.S. Southern California

Courses
5110 General Systems and Cybernetics Fundamentals (3)
5120 Cybernetic Biophysics (3)
5130 Applied Cybernetics and Bionics (3)
5140 Cybernetics of Human Behavior (3)
5990 Cybernetics Seminar (3)

Water Resources Development (991)

Floyd C. Larson, Director, Water Resources Research Center

Specific requirements for admission to this program are a Bachelor's degree in law, engineering, or one of the physical or social sciences from an accredited college or university, and evidence of ability to do work of graduate quality, as ascertained by undergraduate records. Also considered will be work record, if any, and letters of recommendation. The general policies and requirements of the Graduate School apply to this program.

The degree of Master of Science requires 45 quarter hours of graduate study, including 9 hours of thesis work. The exact curriculum of each student is decided in consultation with a faculty committee, depending on the student's background and field of interest. If the student's undergraduate work has, in the opinion of the faculty committee, sufficient training and education in one or more of the required courses, the student may substitute other elective courses. Electives will consist of advanced work in the student's specialty or in a related field.

UNDERGRADUATE
3410 Principles of Ground Water Geology (3) (Same as Geology 3410.)
3420 Geohydrology (3) (Same as Geology 3420.)
3565 Introduction to Public Administration Organization and Management (4) (Same as Political Science 3565.)
4110 Managerial Economics (3) (Same as Economics 4110.)
4810 Water Law (3) (Same as Environmental Engr. 4810 and Law 8975.)

GRADUATE
5000 Thesis
5130 Planning Research Methods I (3)
5160 Planning and Utilities (3)
5200 Water Resources Systems (3)

5330 Descriptive Hydrology (3)
5340 Hydrology of Agricultural and Forest Lands (3)
5410-20-30 Interdisciplinary Seminars (3, 3, 3)

Space Institute, Tullahoma.
Institute of Agriculture

Webster Pendergrass, Vice President
Elbert J. Chapman, Assistant Vice President

The Institute 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 to offer instruction in agriculture and the mechanic arts for the first time. Since 1869, agricultural programs at the University have expanded to include research for the development of new knowledge and extension for dissemination of such knowledge to rural people. Thus the Institute of Agriculture has come to include the work of four main divisions: College of Agriculture, College of Veterinary Medicine, Agricultural Experiment Station, and Agricultural Extension Service.

Agricultural Experiment Station

John A. Ewing, Dean
Thomas J. Whatley, Assistant Dean
Dorsey M. Gossett, Assistant Dean

The Agricultural Experiment Station was established in 1887 by an Act of Congress known as the Hatch Act. The purpose of the Experiment Station is the promotion of practical agriculture through fundamental and applied research on all problems affecting farmers of the state. For example, there are research projects dealing with the development of new and improved varieties of farm and garden crops, the development of improved methods for the control of crop insects and crop diseases, and the evaluation of systems for the feeding, pasturing and management of livestock. Also, much attention is given to soils and fertilizers, mechanical devices of importance on the farm, human nutrition, and various rural economic and social problems.

Priority is given to problems of special importance to the farmers of Tennessee.

The results of investigations are carried to the people in the form of bulletins, circulars, and reports, through the Agricultural Extension Service, and to the state educational system through the Colleges of Agriculture and Education. Rural life has been greatly enriched by the results of these investigations, as have the curricula of the school system.

Headquarters and the Main Station of the Agricultural Experiment Station are located at Knoxville. In addition, the Experiment Station operates research facilities at other locations in the state as follows:

UT-ERDA COMPARATIVE ANIMAL RESEARCH LABORATORY

This laboratory is located about 20 miles west of Knoxville near Oak Ridge. A program of radiobiological research in the field of Agriculture is carried out by the Agricultural Experiment Station under contract with the Energy Research and Development Administration. The program includes research with farm and laboratory animals, and in applied radiobiology and plant breeding.

Facilities at the laboratory include approximately 2,000 acres of land for maintaining livestock and growing plants to be used in experimental work, a research laboratory especially suited to large animal work, and a unique gamma radiation field.

In 1962, 2,200 acres of forest land near the laboratory area were acquired by the University. An arboretum containing some 250 acres has been established. Emphasis will be on collecting woody plants. In addition, this land will be used for research on recreational use of forested areas and on the adaptation of forest species to soils and other site factors.

THE UNIVERSITY OF TENNESSEE AT MARTIN

On January 1, 1965, the Agricultural Experiment Station was assigned responsibility for administration of the 600-acre farm adjacent to the Martin campus. The farm is used for both research and teaching. At the same time the School of Agriculture at Martin assumed research responsibilities and is working closely with the different departments in Knoxville in planning and executing the research program.

Experiments are under way with field crops, horticultural crops, dairy cattle, and beef cattle. The primary concern is with problems of special importance to the northwestern part of the state.

BRANCH STATIONS

Dairy Experiment Station near Lewisburg contains 615 acres and is operated in cooperation with USDA-ARS. Major emphasis is breeding and nutrition of Jersey cattle.

Highland Rim Experiment Station near Springfield contains 586 acres. Major emphasis is breeding and culture of dark-fired tobacco, other agronomic crops, horticultural crops, and livestock.

Middle Tennessee Experiment Station near Spring Hill contains 1,153 acres of representative high-phosphate Central Basin soils. Studies are under way with field crops, beef cattle, sheep, and dairy cattle of the Holstein breed.

Plateau Experiment Station near Crossville consists of three farms totaling 2,150 acres. Studies with beef cattle, sheep, field and horticultural crops provide information about results to be expected under the cooler, more humid climate and special soil conditions of the Cumberland Plateau.

Tobacco Experiment Station near Greenville consists of 536 acres. Extensive research on Burley tobacco is in cooperation with USDA-ARS. In addition, beef cattle and field crops are studied.

West Tennessee Experiment Station near Jackson contains 660 acres. Major emphasis is culture and breeding of cotton, other
agronomic crops, horticultural crops, and breeding and feeding of dairy cattle.

FIELD STATIONS
Ames Plantation near Grand Junction includes 18,500 acres (about 10,000 acres in forest). The land is in trust by the Ames Foundation for use by the Institute of Agriculture. Large scale experiments involve forestry, farm management, crop production, and breeding and management of beef cattle and swine.

Cumberland Forestry Field Station consists of two tracts in Morgan and Scott Counties with a total area of 9,450 acres.

Friendship Forestry Field Station is located in Hamilton County and consists of 660 acres owned by the TVA. Forestry research is conducted in cooperation with TVA.

Highland Rim Forestry Field Station near Tullahoma includes 860 acres. Research emphasis is mechanization of production of cotton, soybeans, and horticultural crops.

Agricultural Extension Service
William D. Bishop, Dean
M.L. Downen, Assistant Dean
Troy W. Hinton, Assistant Dean
Mildred F. Clarke, Assistant Dean

The Agricultural Extension Service serves the entire state of Tennessee. This educational service of the Institute of Agriculture is active in every country extending information on agriculture and home economics and related subjects to farm families and other citizens.

This educational organization was established July 1, 1914, by an Act of Congress commonly known as the Smith-Lever Act. Staff members of the Agricultural Extension Service use a wide range of methods — farm and home visits, educational meetings, field demonstrations, publications, and courses in providing educational programs for people who do not have the opportunity to enroll in resident courses of instruction at colleges.

Extension staff members develop and carry out programs to meet the specific needs of the residents of their counties. They work with both adults and youth. Educational activities for boys and girls are carried out through 4-H Clubs which are organized in schools and in communities.

County, state, and federal governments cooperate in carrying out the Agricultural Extension Service program. The United States Department of Agriculture, the State of Tennessee, and each county government provide the financial support. Any county which appropriates funds for the program may have an office located there to serve its residents. Most offices are located in county seat towns. Headquarters for the Agricultural Extension Service is at Knoxville and district administrative offices located in Cookeville, Knoxville, Chattanooga, Nashville, and Jackson.

As a distinct administrative unit of the Institute of Agriculture, the Agricultural Extension Service works closely with the other units of the Institute — the Agricultural Experiment Station, the College of Agriculture, and the College of Veterinary Medicine — in providing a total program of research, instruction, and extension for developing the agriculture of the state.

College of Agriculture
O. Glen Hall, Dean

Curricula in Agriculture
Broad opportunities for young people to prepare for a future in agriculture and forestry 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 Forest Resources, 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 Engineers' Council for Professional Development. 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 new College of Veterinary Medicine located on the Knoxville campus.

Students pursing 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 Business, Agricultural Economics, Agricultural Education, Agricultural Mechanization, Animal Science, Food Technology and Science, Ornamental Horticulture and Landscape Design, 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 consult the curriculum outlined by the department in which he 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; and 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.

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. Each curriculum leading to the degree of Bachelor of Science in Agriculture includes the requirements of the basic curriculum for agriculture. For this degree, the minimum requirement is 198 quarter-hour credits. This total may include 8 hours of lower division military science credit in the 198 total. A minimum of 45 hours in agricultural courses is required. For the degree of Bachelor of Science in Forestry, and in Wildlife and Fisheries Science, the minimum requirement is 198 quarter-hour credits. For the degree of Bachelor of Science in Agricultural Engineering, the minimum requirement is 198 quarter-hour credits.

The use of transfer credit in technical agriculture is approved. Each organized curriculum will be considered and approved by the adviser of that curriculum and the Dean of the College of Agriculture. When desirable, validating or proficiency examinations may be requested in certain courses in some areas to determine competence in an area and to avoid unnecessary repetition. Such examinations should be taken during the first quarter in residence, and must be conducted under the supervision of the head of the department in which the course is offered.

A minimum of 27 quarter hours of upper-division technical agriculture appropriate to a specified major requirement, as approved by the major adviser, must be completed in residence to fulfill the requirements of baccalaureate degrees offered in the college.

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. See the Graduate Catalog for details.

A Winter Short Term for Agricultural Extension personnel and other professional agricultural workers is held each year during the last half of the winter quarter. Those attending must be accepted by the Graduate School. Students may take three courses and earn nine quarter hours of graduate credit toward the Master of Science degree. A number of courses are offered annually in Agricultural Extension Education and in other departments in the College of Agriculture. Additional information and a five-year schedule of course offerings may be obtained by writing to Professor R.S. Dotson, Head, Department of Agricultural Extension Education, College of Agriculture, Knoxville.

DOCTORAL PROGRAMS
Graduate study programs lead to the Doctor of Philosophy degree in Animal Sciences Agricultural Economics Agricultural Engineering 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 Hall 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.

For 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 Science Farm (212 acres), and a livestock farm (510 acres) provide excellent field laboratories for instruction and experimental programs offered in the College. Cherokee woodlot (120 acres), the Oak Ridge Forest (2,250 acres), and Ames Plantation (6,000 acres of forested land) provide excellent facilities for field work in forestry.

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 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. Lectures in 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 area of special interest may choose the curriculum most adaptable to their needs when they register as freshmen, and an adviser from that 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 adviser to assist them in exploring the opportunities in the several fields of agriculture and to guide them in the planning of appropriate courses of study for the freshman year. When they choose a curriculum, an adviser will be assigned from that department.

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

A very careful choice of electives enables a student with an above-average academic record to complete a double major by satisfying all the requirements in each curriculum. For this purpose, the advisers of each curriculum should be consulted, the Dean of the College of Agriculture should be informed, and a student should maintain a complete record of the student's progress.

Students who transfer to the College of Agriculture from another institution, or from another college within The University of Tennessee, should consult the Dean if in doubt as to the curriculum they wish to follow, and for assignment to an appropriate adviser. Requests for substitutions or special examinations should be submitted for consideration during the first quarter of study in the selected curriculum.

**BASIC CURRICULUM FOR AGRICULTURE**

All students working for a degree of Bachelor of Science in Agriculture will include in their course of study the following minimum requirements. The sequence and the selection of courses not specified will be guided by the adviser.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Credit</th>
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<tbody>
<tr>
<td><strong>Agriculture 1110.</strong> Introduction to Social Sciences for Agriculture</td>
<td>4</td>
<td></td>
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<tr>
<td><strong>Agriculture 1120.</strong> Introduction to Agricultural Engineering</td>
<td>4</td>
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<tr>
<td><strong>Agriculture 1130.</strong> Animal Science for Agriculture</td>
<td>4</td>
<td></td>
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<tr>
<td><strong>Agriculture 1140.</strong> Plant Science for Agriculture</td>
<td>4</td>
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<tr>
<td><strong>Agriculture 1150.</strong> Food Technology and Science for Agriculture</td>
<td>4</td>
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<tr>
<td><strong>Agriculture Science, (courses listed in department curricula)</strong></td>
<td>26</td>
<td></td>
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<tr>
<td><strong>English and Communications.</strong> <em>(English literature or communications)</em></td>
<td>17</td>
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<tr>
<td><strong>Mathematics 1540-50-60.</strong> <em>(general mathematics)</em></td>
<td>12</td>
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<tr>
<td><strong>Biological Science, (courses in biological, botany, microbiology, or zoology)</strong></td>
<td>12</td>
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<td><strong>Physical Science, (Chemistry)</strong></td>
<td>12</td>
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<tr>
<td><strong>1110-20-30 or 1510-20-30 and physics or geology</strong></td>
<td>16</td>
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<tr>
<td><strong>Social Science and Humanities, <em>(Economics 2110-20 and electives, 12 hours— not more than 3 areas)</em></strong></td>
<td>18</td>
<td></td>
</tr>
<tr>
<td><strong>Other Courses or Elective Hours Specified by Departments</strong></td>
<td>76</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>198</td>
<td></td>
</tr>
</tbody>
</table>

*Equivalent honors courses*

The Mathematics 1940-50-60 sequence may be necessary in some courses of study.

The five basic courses in agriculture are not departmental; but the course outlines and content were prepared by a group of experienced teachers representing the appropriate subject-matter areas. They are presented by a team of teachers who work together in developing the material in each course. The five courses are required of all agricultural students who seek the degree of Bachelor of Science in Agriculture; and the five teaching teams coordinate their work carefully to insure a unified program. A major purpose of this basic program is to present freshman agricultural students an appropriate concept of modern agriculture, its role in our economic and social structure, the unity among its several segments, and its relation to other areas of study. Basic subject-matter concepts are presented to prepare suitable foundations for further study. These courses serve as a strong motivation for study in the physical, biological, and social sciences, and are prerequisite to advanced courses in technical agriculture.

An Honors Seminar is offered as a challenge to exceptional students who desire to explore in greater depth some special topic of unusual significance to agriculture. A team of faculty members shares in this seminar as participants and resource people. The 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 in the study of a common problem provides an unusual challenge.

**COURSE LOAD**

Students desiring to take more than 19 hours per quarter must have the approval of the Dean of the College.

**Agricultural Biology**

**Adviser: Professor Southards**

No undergraduate curriculum exists in Agricultural Biology, but a program leading to the Master of Science degree with a major in Agricultural Biology is available (see Graduate Catalog). Courses in economic entomology, plant pathology, soil microorganisms, and plant parasitic nematodes are available to agricultural students. The department is currently comprised of two major disciplines: Economic Entomology and Plant Pathology. The primary objective of offering a major at the graduate level is to provide training in the basic and applied aspects of the ecological hazards that are the major causes of losses in agricultural production. The training gives such a student the foundation necessary for coping with the myriad insect and plant disease problems that constantly threaten Tennessee's dynamic agriculture.

**Agricultural Economics and Rural Sociology**

**AGRICULTURAL BUSINESS CURRICULUM**

**Advisers: Professor Martin, Associate Professors Brooker and Snell, and Assistant Professors Mundy and Trevena**

This curriculum is designed to prepare students for employment in the rapidly expanding field of agricultural business. Recognition is given to the desire of many college graduates to continue to work with agriculture through many private and public services where major emphasis is in areas other than farm production. This program emphasizes particularly those capacities needed for the management phase of agricultural business. Course offerings in the College of Business Administration have been used freely in this curriculum. Preparation in business electives for such work in crops, livestock and poultry marketing, fertilizer and feed businesses, cooperative business management, agricultural credit agencies, farm real estate and appraisal services, agricultural representatives with banks, public and private market analysis, agricultural journalism and farm information services utilizing mass communications.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Agriculture 1110-20-30-40-50</strong></td>
<td>20</td>
<td></td>
</tr>
<tr>
<td><strong>Economics 1510-20</strong></td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Mathematics 1540-50-60</strong></td>
<td>12</td>
<td></td>
</tr>
<tr>
<td><strong>Biological Science Electives</strong></td>
<td>8</td>
<td></td>
</tr>
<tr>
<td><strong>Chemistry 1110-20-30 or 1510-20-30</strong></td>
<td>12</td>
<td></td>
</tr>
<tr>
<td><strong>Economics 2110-20-30</strong></td>
<td>9</td>
<td></td>
</tr>
<tr>
<td><strong>Nondepartmental Social Science and Humanities Electives</strong></td>
<td>12</td>
<td></td>
</tr>
<tr>
<td><strong>Psychology Electives</strong></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Biological Science Elective</strong></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>
Agricultural Education
Advisers: Professor Wiegens and Associate Professors Craig and Todd

The curriculum in agricultural education is planned in cooperation with the College of Education. All agricultural education courses are offered in the College of Education.

This curriculum is designed to prepare students for entering professional agricultural education service. Graduates are qualified to teach vocational agriculture. The curriculum also provides training for those who wish to enter farming, industry and governmental services associated with agriculture, and other occupations.

The senior courses in agricultural education are taught at selected off-campus centers. These courses are scheduled concurrently each quarter during the regular school year.

Students should file applications for student teaching in the Agricultural Education Department at least two quarters prior to the quarter in which the student teaching is desired.

Freshman Hours Credit

Agriculture 1110-20-30-40-50... 20
'Economic 1510-20...
Mathematics 1540-50-60...
Biological Science Electives

Sophomore

'Chemistry 1110-20-30 or 1510-20-30...
'Economics 2100-20-30...
'Biological Science Electives...

Junior

Agricultural Economics Electives...
Rural Sociology Elective...
Statistics 2100, 3220, and Statistics Electives...
Economics 3110-20...
Nondepartmental Agricultural Electives...
Physics or Geology Electives...
Electives...

Senior

Agricultural Economics Electives...
Economics Elective...
Speech 2311...
Nondepartmental Agricultural Electives...
Electives...

TOTAL: 198 hours

*or equivalent honors courses.

Institute of Agriculture

Agricultural Economics and Rural Sociology Curriculum
Advisers: Professor Martin and Associate Professor Mundy and Trevena

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. Recognition is given to the desire of many college graduates to work in agriculture where the major emphasis is in farm production and related areas. Students are prepared for positions such as farm managers, county agricultural agents, managers of farm supply and purchasing firms, agricultural journalism and farm loan agents. This curriculum also provides the necessary background for graduate work in Agricultural Economics.

Freshman Hours Credit

Agriculture 1110-20-30-40-50-60...
'Economic 1510-20...
Mathematics 1540-50-60...
Biological Science Electives...

Sophomore

'Chemistry 1110-20-30 or 1510-20-30...
'Economics 2100-20-30...
'Biological Science Electives...

Junior

Agricultural Economics Electives...
Rural Sociology Elective...
Statistics 2100, 3220, and Statistics Electives...
Economics 3110-20...
Nondepartmental Agricultural Electives...
Physics or Geology Electives...
Electives...

Seniors

Agricultural Economics Electives...
Economics Elective...
Speech 2311...
Nondepartmental Agricultural Electives...
Electives...

TOTAL: 198 hours

*One hour must be in PE.
*

Agricultural Engineering

Agricultural Engineering Curriculum
Adviser: Professors Luttrell and Sewell

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 minimum requirements for admission include two units in algebra, one unit in geometry (preferably including some solid geometry), and one-half unit in trigonometry. Provisions for removal of deficiencies are made for students not meeting these requirements by registration in special classes during their freshman year.

The curriculum is designed to give training in the basic fundamentals of engineering and a background in agriculture. The student is trained to make application of engineering principles in the field of agriculture.

Graduates can go into design of farm machinery, soil and water conservation engineering, structures, buildings, animal waste disposal systems, or materials handling and processing systems. Opportunities are also available in the field of sales engineering, dealing with equipment, prefabricated structures, irrigation systems, or electrical-powered systems found in agriculture.

Industry, colleges or universities, government agencies such as the Soil Conservation Service, research organizations, foreign service, all offer employment opportunities to the graduate agricultural engineer. The curriculum provides for elective courses which can be taken in the student's area of interest and prepare him for the field he desires. The curriculum is designed to prepare students desiring to undertake a graduate program in agricultural engineering.

Students majoring in agricultural engineering are eligible to participate in the Engineering Cooperative Scholarship program, Engineers' Day program, engineering student publications, and other student activities in the College of Engineering. They are also eligible for selection into membership in Tau Beta Pi. Agricultural Engineering majors interested in the Cooperative Engineering Scholarship programs should consult with the head of the Department of Agricultural Engineering.
Graduate majors and minors are offered in Agricultural Extension Education. Graduate courses are designed to develop in present extension workers and other interested students those competencies needed for improving the effectiveness of their work. Professor Dotson will give guidance for desired emphasis in Agricultural Extension Education.

Animal Science
Advisers: Professors Johnson, Bitner, Chamberlain, Merriman, Murphee, Richardson, Shirley, Shrode, Swanson; Associate Professors Barth, Lidvall, McLaren, Montgomery, and Assistant Professors Corrick, Hitchcock, Holloway, and Smaill.

This curriculum is designed to prepare students for leadership careers in livestock and in related industries. Swine, poultry, sheep, dairy and beef cattle production and management may be involved, providing the opportunity for special or additional training in the dynamic livestock and husbandry technology (production). Through course selection, the student, therefore, may prepare for general or livestock farm 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 or poultry production, managerial or marketing groups, other educational agencies, supply and equipment cooperatives, agricultural extension service, agricultural communication, public relations, and various organizations associated with agriculture.

Students have the opportunity, through course selection, to procure the equivalent of double majors in Animal Science with Vocational Education, Plant and Soil Science, Agricultural Economics, or other available departments.

Agricultural Mechanization Curriculum
Advisers: Professors Luttrell and Shelton

Agriculture's rapid mechanization is continually increasing the demand for graduates trained in the principles dealing with application of machines, systems, and structures designed by engineers for improvement of production, handling, processing, and storing of food and fiber. The graduate agricultural mechanization specialist may be involved in making material handling layouts for farmsteads, testing machinery for a manufacturer, managing a feed processing plant, or working with farmers in better utilizing electrical equipment and systems while working for an electrical power distributor. Positions are also filled as a farm manager, research technician, farm service adviser; also, positions are available in the areas of machinery, farm structures and irrigation equipment sales, educational and extension work with an institution, and educational and training programs in an agriculture-connected industry.

A student is able to minor in another field by carefully selecting his elective courses. This enables him to become better trained for a specific area of work in the technology or business fields.

Freshman 

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 1110-20-30-40</td>
<td>16</td>
</tr>
<tr>
<td>Agricultural Mechanization 2110</td>
<td>3</td>
</tr>
<tr>
<td>Biology 2130</td>
<td>4</td>
</tr>
<tr>
<td>English 1510-20</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics 1540-50-60</td>
<td>12</td>
</tr>
</tbody>
</table>

Sophomore

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 1150</td>
<td>4</td>
</tr>
<tr>
<td>Agricultural Mechanization 2130</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 1110-20-30 or 1510-20-30</td>
<td>12</td>
</tr>
<tr>
<td>Economics 2110, 2130</td>
<td>6</td>
</tr>
<tr>
<td>English or Communications Elective</td>
<td>3</td>
</tr>
<tr>
<td>Journalism 2210</td>
<td>3</td>
</tr>
<tr>
<td>Physics 1210-20</td>
<td>8</td>
</tr>
<tr>
<td>Plant and Soil Science 2130</td>
<td>4</td>
</tr>
<tr>
<td>Speech 2311</td>
<td>4</td>
</tr>
</tbody>
</table>

Agricultural Extension Education
Advisers: Professor Dotson and Associate Professor Carter

No formal undergraduate curriculum is offered in Agricultural Extension Education, but undergraduate courses are available as electives in each formal curriculum. Courses are designed to: (1) develop in prospective extension workers and other interested students an understanding of the functions, responsibilities, and techniques of the Cooperative Agricultural Extension Service; and (2) provide prospective extension workers with practical extension work experience in selected training counties.
quarter of the year in which they are applying. However, exceptions may be made in individual cases if a specific course(s) can be completed during summer school. It is strongly recommended that each interested student plan to pursue at least a three-year pre-veterinary program. Inquiries concerning possible course substitutions and the combining of the pre-veterinary program with a 1 degree program should be directed to the department's pre-veterinary advisers. It is possible for students who are accepted into the College of Veterinary Medicine at the end of their third year to receive a B.S. in Agriculture with a major in Animal Science upon successful completion of the first year in the College of Veterinary Medicine. See the College of Veterinary Medicine for additional information.

A suggested schedule for the Pre-Veterinary Medicine - Animal Science student is given below which will: 1) allow for the completion of the above pre-veterinary requirements by the end of the third year and 2) allow the student to make normal progress toward completing the requirements for a degree in Agriculture with a major in Animal Science. It is strongly recommended that the student carry a normal load of at least 15 to 18 hours per quarter.

### First year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter Hour Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1510-20</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics 1540, 1550, 1560</td>
<td>12</td>
</tr>
<tr>
<td>Biology 1210-20-30</td>
<td>12</td>
</tr>
<tr>
<td>Chemistry 1110-20-30</td>
<td>12</td>
</tr>
<tr>
<td>Agriculture 1130</td>
<td>4</td>
</tr>
<tr>
<td>Humanities electives</td>
<td>4</td>
</tr>
</tbody>
</table>

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### Second year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter Hour Credits</th>
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</thead>
<tbody>
<tr>
<td>Chemistry 3211-21-31</td>
<td>9</td>
</tr>
<tr>
<td>Chemistry 3219-29-39</td>
<td>3</td>
</tr>
<tr>
<td>Physics 2210-20-30</td>
<td>12</td>
</tr>
<tr>
<td>Agriculture 1110</td>
<td>12</td>
</tr>
<tr>
<td>Economics 2110</td>
<td>3</td>
</tr>
<tr>
<td>Speech 2311</td>
<td>4</td>
</tr>
<tr>
<td>Animal Science 3310 and 3330</td>
<td>12</td>
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<tr>
<td>Humanities electives</td>
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</table>

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### Third year

<table>
<thead>
<tr>
<th>Course</th>
<th>Quarter Hour Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry 4110-20</td>
<td>6</td>
</tr>
<tr>
<td>Microbiology 2610</td>
<td>5</td>
</tr>
<tr>
<td>Economics 2210</td>
<td>3</td>
</tr>
<tr>
<td>Social Science electives</td>
<td>2</td>
</tr>
<tr>
<td>Humanities electives</td>
<td>4</td>
</tr>
<tr>
<td>1 Animal Science electives</td>
<td>10</td>
</tr>
<tr>
<td>2 Electives</td>
<td>20</td>
</tr>
</tbody>
</table>

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TOTAL: 155

### Animal Science Curriculum with a Pre-Vet Option

For students accepted by the U.T. College of Veterinary Medicine after the third year and who wish to obtain a B.S. in Agriculture with a major in Animal Science upon completion of the first year in the College of Veterinary Medicine.

The student will need to complete the requirements as established by the College of Veterinary Medicine. In addition, the student will need to complete the following courses in the College of Agriculture: AG 1110 or equivalent AG Econ. course; AG 1150 or equivalent FT & S course; AS 2810, 3420, one 3000 level evaluation course, and one 4-hour management course; P & SS 2130;

Agriculture other than AS, 6 hours. In addition, the following general requirements must be met in order to meet certain rules of UTK and the College of Agriculture in granting degrees:

1. The last 45 hours of the three-year program must be taken at UTK.
2. At least 18 hours of upper division technical agriculture must be taken at UTK.
3. The student must complete the first year in the U.T. College of Veterinary Medicine and with the substitution of appropriate courses from the first year and the completion of a minimum of 198 hours will be granted a B.S. in Agriculture with a major in Animal Science. It is the student's responsibility to complete the above requirements and to initiate the request for the degree.

### Food Technology and Science

Advisers: Professors Miles and Overcast, Associate Professors Collins and Melton.

Food Technology and Science is the application of the sciences and engineering to the manufacture, preservation, storage, transportation, and consumer use of food products. Processing of raw food materials into consumer products by canning, freezing, dehydrating, fermenting, preserving, etc., is taught with emphasis on basic principles rather than on specific commodity procedures. Therefore, young men and women who plan to enter food technology must have an interest in the sciences, particularly chemistry, biology, microbiology, and physics.

This curriculum is designed to prepare students for a professional career in positions in the food industry such as food microbiologist, quality control specialist, quality evaluation and control supervisor, plant foreman and manager, packing specialist, ingredients specialist, etc. The Model Curriculum of the Institute of Food
Technologists was used as a guide in developing this curriculum. A special problem course provides opportunities for practical training in food processing plants and laboratories or federal and state laboratories.

**Freshman**

- Agriculture 1110-30-40-50 ........................................... 16
- English 1510-20 ......................................................... 8
- Mathematics 1540-50-60 ............................................... 12
- Physics 1520-20-30 ........................................................ 12
- Social Science Elective ............................................... 3

**Sophomore**

- Agriculture 1120 .................................................... 4
- Chemistry 1101-20-30 or 1510-20-30 .............................. 5
- Economics 2120-20-30 ............................................... 9
- Food Technology and Science 2110-20 .......................... 7
- Microbiology 2610 .................................................. 5
- Speech 2511 ........................................................... 4
- Communications or English Elective ............................... 4
- Social Science Elective ............................................... 3

**Junior**

- Agricultural Mechanization 3510 ................................ 4
- Chemistry 2230 or Nutrition 3310 ................................. 4
- Nutrition 3220-30-39 ................................................ 12
- Food Technology and Science 3210-20 .......................... 7
- Food Technology and Science 4210 ................................ 3
- Microbiology 3810 .................................................. 3
- Plant and Soil Science 3610 ........................................ 4
- Communications or English Elective .............................. 3
- Social Science Elective ............................................... 3
- *Electives* ............................................................. 12

**Senior**

- Food Technology and Science 4010 ................................ 3
- Food Technology and Science 4120-20, 4310, 4810, 4920 ............... 16
- Food Science 4010 ................................................ 3
- Nutrition 3410 ...................................................... 5
- *Electives* ............................................................. 5
  **TOTAL: 198 hours**

Mathematics 1840-50-60 are desirable alternates for students with suitable entrance scores.

*Those students preparing for employment in commercial food industry should select business electives from such areas as agricultural economics, accounting, business law, industrial management and marketing. Student should consult with adviser before taking any elective.*

*Or equivalent honors courses.*

### Forestry

**Adviser:** Professor Barrett

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.

In addition to the core of required courses there are about forty-three 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 include:

- **Wildlife Management**—ecology, zoology, botany.
- **Forest Engineering**—mathematics, physics, engineering.
- **Industrial Forestry**—economics, business law, marketing, industrial management.
- **Forest Biology**—tree physiology, ecology, genetics, morphology.

*Transfer students should check with an adviser to assure that their schedule will include courses prerequisite to the Junior Field Session.

*Enough electives must be taken to total 198 hours for degree.*

### FORESTRY RECREATION OPTION

The Forest Recreation Option provides students with opportunities to obtain an education in preparation for professional positions in the recreation field, including interpretation, and management of private and public forested lands for recreation purposes. Students are also exposed to the basic philosophy and principles associated with leisure time and its use, and the relationship of forest resources to the constructive utilization of leisure time.

**Freshman**

- Botany 1110-20 or Biology 1210-20 .................................. 8
- *English 1510-20* .................................................. 8
- Forestry 1620 .......................................................... 3
- Mathematics 1540-50-60 ........................................... 12
- Physics 1210-20 .................................................... 8
- Speech 2511 .......................................................... 4
- *Electives* ............................................................. 4-6

**Sophomore**

- Chemistry 1510-20 .................................................. 8
- Computer Science 2410 .............................................. 3
- Economics 2110-30 .................................................. 6
- Forestry 3040-50 .................................................... 8
- Sociology 1510-20 .................................................. 6
- Psychology 2500 .................................................... 4
- Plant and Soil Science 2130 ....................................... 4
- Journalism 2210 .................................................... 4
- Political Science 2020 .............................................. 4
- *Electives* ............................................................. 6-8

**Junior**

- Forestry 3020, 3110, 3230, 3240, 3320, 3330 .................... 16
- Plant and Soil Science 3610 ....................................... 3
- Anthropology 2350 .................................................. 4
- Recreation 3140 .................................................... 3
- Journalism 3710 .................................................... 3
- *Electives* ............................................................. 21-24

**Senior**

- Forestry 3210, 4210, 4230, 4240, 4330, 4440 .................... 19
- Planning 4100 ........................................................ 3
- Ornamental Horticulture and Landscape Design 4210, 4180 ......... 6
- *Electives* ............................................................. 19-22

**TOTAL: 198 hours**

*Or equivalent honors courses.*

*Twenty hours of electives to be taken from the following courses: Accounting 2110-20, Accounting 3510 Agricultural Biology 4030, Agricultural Economics 4330, Agricultural Mechanization 2130, Agricultural Mechanization 4290, Anthropology 2510-20, Astronomy 2110-20-30, Botany 3030, Botany 3090, Botany 4030, Botany 4310, Business Law 4110, Civil Engineering 4260, Forestry 4220, Forestry 4340, Geology 1510-20, Geology 2410, Ornamental Horticulture and Landscape Design 4210, Philosophy 2510-20, Plant and Soil Science 3250, Political Science 3557, Political Science 3666-67, Political Science 3630, Public Health 3210, Recreation 3100, Recreation 3200, Sociology 3910, Wildlife and Fisheries Science 4450, Wildlife and Fisheries Science 4520, Zoology 3400, Zoology 4500.

### WILDLIFE AND FISHERIES SCIENCE CURRICULUM

**Freshman**

- Biology 1210-20-30 ................................................. 12
- Mathematics 1540-50-60 ........................................... 12
- *English 1510-20* .................................................. 8
- Speech 2511 .......................................................... 4
- Forestry 1620 .......................................................... 3
- Physics 1210 .......................................................... 4
- *Electives* ............................................................. 5

*Biology 1210-20 is recommended in lieu of Botany for students interested in wildlife management.

*Or equivalent honors courses.*

*In addition to the specified English electives a minimum of 14 credit hours will be elected in social sciences and/or humanities, not more than three areas, and Agriculture 1110 is recommended.*

*A minimum of 6 hours of communications electives to be selected from a Department of Forestry approved list.*

*Computer Science 210 is accepted in lieu of 2140 for those wishing to elect additional courses in this area.*