GENERAL CATALOG/KNOXVILLE/1977/78

THE UNIVERSITY OF TENNESSEE RECORD

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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

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 by 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.
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Academic Calendar for 1977-78

Summer Quarter 1977
- June 15: Orientation (Transfer & Freshman)
- June 15-16: Registration, First or All 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, Full Term
- August 8: Drop Deadline, Second Term
- August 19: Classes End
- August 23: Commencement

Fall Quarter 1977
- September 16: Orientation (Transfer)
- September 19: Orientation (Freshman)
- September 19-20: Upperclassmen & Graduate Registration
- September 20-21: Freshman and Transfer Registration
- September 22: Classes Begin
- October 26: Drop Deadline
- October 28: East Tenn. Educ. Assoc. (No Classes)
- November 5: Homecoming (No Classes)
- November 24-26: Thanksgiving (No Classes)
- December 6: Classes End
- December 9: Commencement

Winter Quarter 1978
- 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 1978
- March 27: Orientation (Transfer & Freshman)
- March 27-28: Registration
- March 29: Classes Begin
- May 2: Drop Deadline
- June 6: Classes End
- June 9: Commencement
Academic Calendar for 1978-79

**Summer Quarter 1978**

June 14  Orientation (Transfer)
June 15  Orientation (Freshman)
June 15-16 Registration First or All Terms
June 19  Classes Begin
July 4   Independence Day (No Classes)
July 6   Drop Deadline, (First Term)
July 20  Classes End, First Term
July 19-21 Registration, Second Term
July 24  Classes Begin, Second Term
July 24  Drop Deadline, Full Term
August 10 Drop Deadline, Second Term
August 23 Classes End
August 25 Commencement

**Fall Quarter 1978**

September 15 Orientation (Transfer)
September 18 Orientation (Freshman)
September 18-19 Upperclassmen & Graduate Registration
September 19-20 Freshman and Transfer Registration
September 21 Classes Begin
October 25 Drop Deadline
October 27 East Tenn. Educ. Assoc. (No Classes)
November 18 Homecoming (No Classes)
November 23-25 Thanksgiving (No Classes)
December 5 Classes End
December 8 Commencement

**Winter Quarter 1979**

January 3  Orientation (Transfer & Freshman)
January 3-4 Registration
January 5 Classes Begin
February 8 Drop Deadline
March 15 Classes End
March 19 Commencement

**Spring Quarter 1979**

March 26 Orientation (Transfer & Freshman)
March 26-27 Registration
March 28 Classes Begin
May 1   Drop Deadline
April 13-14 Easter (No Classes)
June 7  Classes End
June 12 Commencement
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.
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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,
L. Evans Roth, A.B., M.S., PH.D.
Vice Chancellor for Planning and Administration,
Luke Ebersole, A.B., A.M., PH.D.
Assistant Vice Chancellor for Planning and Administration,
Betsey B. Creekmore, A.B.A., 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.

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Athletics, Director, George R. Woodruff, B.S.
Development, Director, Jack E. Williams, B.S.
Finance, Director, Harold B. Whitehead, B.S., CPA
Graduate Studies, Dean, Margaret N. Perry, B.S., M.S., PH.D.
Physical Plant, Director, Clarence P. Leffler, B.S.
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.
Career Planning and Placement Service, Director,
Howard H. Lumsden, B.S.
International Student and Cultural Affairs, Director,
Dixon C. Johnson, B.S., M.A., PH.D.
Intercollegiate Athletics for Women, Director,
Gloria S. Ray, B.S., M.S.
Student Activities, Dean, 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,
L. Evans Roth, A.B. M.S., 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, Donald D. Hanson, B.Arch., M.Arch.
College of Communications
Dean, Donald G. Hileman, B.S., M.B.A., PH.D.
Division of Continuing Education
Dean, Joseph P. Goddard, B.S., M.S., E.D.D.
College of Education
Dean, William H. Coffield, B.S., M.A., 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 CHE, M.S., PH.D.
College of Home Economics
Dean, Lura M. Odlund, 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.E.D., Colonel, USAF
Army Reserve Officers’ Training Corps
Professor of Military Science, Daniel H. Bauer,
B.A., M.A., Colonel, USAF

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
His Excellency, THE GOVERNOR OF TENNESSEE Ex-Officio
The Commissioner of Education Ex-Officio
The Commissioner of Agriculture Ex-Officio
The President of The University Ex-Officio
The Executive Director of Tennessee Higher Education Commission Ex-Officio

From Congressional Districts

<table>
<thead>
<tr>
<th>Name</th>
<th>District</th>
<th>Began</th>
<th>Term Expires</th>
</tr>
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<tbody>
<tr>
<td>Buford Goldstein, Elizabethton</td>
<td>First</td>
<td>1975</td>
<td>June 1, 1984</td>
</tr>
<tr>
<td>E.S. Bevins, Jr., Concord</td>
<td>Second</td>
<td>1971</td>
<td>July 1, 1977</td>
</tr>
<tr>
<td>Leonard Raulston, Lookout Mountain</td>
<td>Third</td>
<td>1957</td>
<td>July 1, 1979</td>
</tr>
<tr>
<td>William M. Johnson, Sparta</td>
<td>Fourth</td>
<td>1975</td>
<td>June 1, 1978</td>
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<tr>
<td>Amon Carter Evans, Nashville</td>
<td>Fifth</td>
<td>1975</td>
<td>June 1, 1982</td>
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<tr>
<td>Clyde M. York, Columbia</td>
<td>Sixth</td>
<td>1953</td>
<td>July 1, 1981</td>
</tr>
<tr>
<td>Ben Douglass, Lexington</td>
<td>Seventh</td>
<td>1951</td>
<td>July 1, 1979</td>
</tr>
<tr>
<td>Tom Elam, Union City</td>
<td>Eighth</td>
<td>1956</td>
<td>July 1, 1977</td>
</tr>
<tr>
<td>Lee Winchester, Memphis</td>
<td>Ninth</td>
<td>1975</td>
<td>June 1, 1984</td>
</tr>
</tbody>
</table>

From Anderson, Bedford, Coffee, Franklin, Lincoln, Moore, and Warren Counties
Don O. Shadow 1970 June 1, 1979

From Davidson County
Elaine McReynolds 1975 June 1, 1984

From Hamilton County
Paul J. Kinser 1969 June 1, 1978

From Knox County
Ann Baker Furrow 1971 June 1, 1980
Frank P. Bowyer 1959 June 1, 1980

From Shelby County
Harry W. Laughlin 1953 July 1, 1981
Marcus J. Stewart 1970 July 1, 1981

From Weakley County
Wayne Fisher 1953 July 1, 1981

Student Member
Marion Ridley 1976 July 1, 1977

Officers of the Board
Governor Ray Blanton, Chairman
Tom Elam, Vice Chairman
Edward J. Boling, President
Brodie Baynes, Treasurer
Beauchamp E. Brogan, 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), Johnson (Vice Chairman), Elam, Raulston.
Buildings and Grounds: Fisher (Chairman), Kinser (Vice Chairman), Bevins, Douglass, Winchester, York.
Academic Affairs: Furrow (Chairman), Elam, (Vice Chairman), Bowyer, Brown, Fisher, Goldstein, Ridley.
Agriculture: York (Chairman), Douglass (Vice Chairman), Fisher, Laughlin, Porter, Shadow, Stewart.
Athletics: Elam (Chairman), Furrow (Vice Chairman), Bowyer, Johnson, Raulston, York.
Development, Alumni Affairs, and Public Relations: Bowyer (Chairman), Goldstein (Vice Chairman), Elam, Evans, McReynolds, Raulston, Stewart, York, Ridley.
Medical Affairs: Stewart (Chairman), Bowyer (Vice Chairman), Bevins, Evans, Furrow, Laughlin, Winchester.
Student Affairs: Laughlin (Chairman), McReynolds (Vice Chairman), Bevins, Fisher, Furrow, Ingram, Johnson, Raulston, Shadow, Ridley.
Public Service and Continuing Education: Raulston (Chairman), Bevins (Vice Chairman), Evans, Kinser, McReynolds, Stewart, Winchester.
Faculty and Staff Affairs: Douglass (Chairman), Shadow (Vice Chairman), Bevins, Brown, Goldstein, Kinser.

THE UNIVERSITY OF TENNESSEE
ADMINISTRATION AND SERVICE
President, Edward J. Boling, B.S., M.S., E.D.D.
Executive Vice President, Vice President for Development, and Vice President for Business and Finance, Joseph E. Johnson, A.B., A.M., E.D.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., PH.D.
General Counsel, Beauchamp E. Brogan, B.S., 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., LLITT.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 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 help 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 1976, a total of 49,123 students enrolled on the five campuses of The University of Tennessee System. This total included 29,711 enrolled at Knoxville and Centers; 2,552 at the Center for the Health Sciences (Memphis); 5,082 at Martin; 6,162 at Chattanooga; and 5,616 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' programs 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
AGRICULTURAL CAMPUS:
201 Morgan Hall
202 Greenhouse
203 Power Plant
204 Old Agricultural Engineering Bldg.
205 Agricultural Engineering Bldg.
206 Agricultural Engineering Lab.
207 Plot Barn
208 Tenn. State Division of Forestry
209 Fiber Lab.
210 Spinning Lab.
211 Entomology-Plant Pathology Bldgs.
212 Ellington Hall-Plant Sciences
213 C.E. Brehm Animal Sciences Bldg.
214 McLeod Food Technology Building
215 Dairy Products Building
216 Corn-Cotton Building
217 McCord Hall
218 College Greenhouse
219 College of Veterinary Medicine

"The Hill"
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.

**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 avocational 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 solutions 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 more than $16 million in fiscal year 1976. 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:

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<table>
<thead>
<tr>
<th>Academic Campuses</th>
<th>Agricultural Experiment Stations</th>
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<tbody>
<tr>
<td>Agricultural Extension Service District Offices</td>
<td>4-H Centers</td>
</tr>
<tr>
<td>Extension Leaders and Agents</td>
<td>Institute for Public Service Regional Offices</td>
</tr>
</tbody>
</table>
Agricultural Extension Service, specializing in agriculture and home economics, 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, and Knoxville.

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, Head Start Service, Library Services, Radio Services, Teaching Materials Center, and Television Services.

Division of Continuing Education. Knoxville, extends academic programs and services from UTK 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.

Institute for 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 Services, the 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 major buildings, 39,480 acres of land, more than $62,819,000 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 $163,729,000 and the Memorial Research Center and Hospital at $18,829,000. 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, $8,130,000. Facilities at the Tullahoma Space Institute are valued at $3,200,000, and many other facilities throughout the state have a value of $6,182,000.

Buildings on the main campus and agriculture campus at Knoxville are shown on the map printed in this catalog. A map of the state showing locations of the University's academic campuses 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.

When Blount College merged with the University at Nashville, the University was 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 non denominational to the present time and is said to be the oldest such institution west of the Appalachian Mountains. Blount College for a few years admitted women as students, thus becoming the first coeducational college in the United States, though it is probably the only college studied in a subsequent department. The institution later restricted enrollment to men, but reverted to its present coeducational status in 1892.

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

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

In 1869 East Tennessee University was selected by the State Legislature as Tennessee's Federal Land-Grant Institution, under terms of the Morrill Act passed by Congress in 1862. This 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 name was changed to "The University of Tennessee." By this act the University became pledged to the service and interest of the entire state, the head and an integral part of the public education system. By this act the state pledged the institution's 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 1953 with the merger of the University with 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 administers 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 chancellors 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 and the College of Veterinary Medicine, contact:
Director of Admissions
The University of Tennessee
Knoxville, Tennessee 37916
(615) 974-2184
For readmission of former undergraduate students
Director of Readmissions
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 (including the 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
82 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 January 31 for admission into the fall quarter. Application forms 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; enrollment is closed for the winter quarter. Applicants for the School of Nursing must be received by March 1. Selection will be made by March 15; enrollment is closed for the winter and spring quarters.

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

Undergraduate Admissions Requirements
Applicants for undergraduate admissions 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 Testing 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. Score 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 one unit of American history on the high school level or nine quarter hours of college 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 for themselves or their spouses.

A student's residency classification for fee purposes also determines whether the student will be considered under in-state or out-of-state admissions requirements. Children of alumni 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. 170], 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>
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</thead>
<tbody>
<tr>
<td>Algebra</td>
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<td>General Business</td>
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<tr>
<td>Art</td>
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<td>General Mathematics</td>
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<tr>
<td>Bible</td>
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<td>General Science</td>
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<tr>
<td>Biology</td>
<td>3</td>
<td>German</td>
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<tr>
<td>Botany &amp; Zoology</td>
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<td>Greek</td>
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<td>History</td>
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<table>
<thead>
<tr>
<th>Group B</th>
<th>MAXIMUM UNITS</th>
<th>MAXIMUM UNITS</th>
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</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>4</td>
<td>Other subjects accepted for high school graduation, each field of study</td>
</tr>
<tr>
<td>Distributive</td>
<td>2</td>
<td>Physical Education</td>
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<tr>
<td>Education</td>
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<td>ROTC</td>
</tr>
<tr>
<td>English</td>
<td>1</td>
<td>Shopwork</td>
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<tr>
<td>Engineering</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>French</td>
<td>4</td>
<td>Spanish</td>
</tr>
<tr>
<td>Geography</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Geology</td>
<td>1.5</td>
<td>Trigonometry</td>
</tr>
</tbody>
</table>

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 program they seek to enter may be admitted as unclassified students and 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 type 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 Requirements</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 having neither 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 Retention Standards, page 20 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.¹</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>High School Units Required</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLLEGE OF AGRICULTURE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Agriculture</td>
<td>3 1 1</td>
<td>11 16</td>
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<tr>
<td>Bachelor of Science in Forestry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science in Agricultural</td>
<td>3 2 1</td>
<td>11 16</td>
</tr>
<tr>
<td>Engineering</td>
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<tr>
<td>SCHOOL OF ARCHITECTURE</td>
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<tr>
<td>Bachelor of Architecture</td>
<td>3 2 5 1</td>
<td>4.5 16</td>
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<tr>
<td>COLLEGE OF BUSINESS ADMINISTRATION</td>
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<tr>
<td>Bachelor of Science in Business Administration</td>
<td>3 2 1</td>
<td>12 16</td>
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<tr>
<td>COLLEGE OF COMMUNICATIONS</td>
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<tr>
<td>Bachelor of Science in Communications</td>
<td>3 1 1</td>
<td>12 16</td>
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<tr>
<td>COLLEGE OF EDUCATION</td>
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<tr>
<td>Bachelor of Science in Education</td>
<td>3 2 1</td>
<td>12 16</td>
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<tr>
<td>COLLEGE OF ENGINEERING</td>
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<tr>
<td>Bachelor of Science in Engineering</td>
<td>3 2 1</td>
<td>12 16</td>
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<tr>
<td>COLLEGE OF HOME ECONOMICS</td>
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<tr>
<td>Bachelor of Science in Home Economics</td>
<td>3 2 1</td>
<td>12 16</td>
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<tr>
<td>COLLEGE OF LIBERAL ARTS</td>
<td></td>
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<tr>
<td>Bachelor of Arts; general and pre-professional curricula</td>
<td>3 2 1 1</td>
<td>13 16</td>
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<tr>
<td>Bachelor of Fine Arts</td>
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<tr>
<td>Bachelor of Music</td>
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<tr>
<td>Two-year pre-dentistry, pre-medical technology, and pre-physical therapy programs</td>
<td>3 2 1.5 1</td>
<td>13 16</td>
</tr>
<tr>
<td>Bachelor of Science in Chemistry</td>
<td>3 2 1</td>
<td>13 16</td>
</tr>
<tr>
<td>Two-year pre-pharmacy program</td>
<td>3 1 1</td>
<td>13 16</td>
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<tr>
<td>Two-year pre-nursing program</td>
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<tr>
<td>SCHOOL OF NURSING (Knoxville)</td>
<td></td>
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<tr>
<td>Bachelor of Science in Nursing</td>
<td>3 1 1</td>
<td>13 16</td>
</tr>
</tbody>
</table>

Remarks:
- A second unit of algebra may be offered in lieu of geometry.
- These units allow admission to first-year pre-architectural program. Admission to the second year requires: (1) satisfactory completion of first year architectural program with grade point average at least 2.3, exceptions may be made by petition only, (2) a personal interview and evaluation of applicant's work by a designated member of the School of Architecture, (3) application to the School of Architecture no later than June 15 preceding the start of the second year.
- A unit of advanced mathematics or trigonometry may be offered in lieu of the second unit of algebra or the unit of geometry.
- A second unit of algebra may be offered in lieu of geometry.
- Three units of science, including physics, are recommended.
- A second unit of algebra may be offered in lieu of geometry. See College of Liberal Arts section, page 168, for discussion of language requirements.
- A second unit of algebra may be offered in lieu of geometry; a unit of history or social science is required.
- A second unit of algebra may be offered in lieu of geometry.
- A second unit of algebra may be offered in lieu of geometry. One unit of chemistry is recommended.
# MAJORS AND DEGREES

<table>
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<tr>
<th>Institute of Agriculture: College of Agriculture</th>
<th>DEGREE</th>
<th>College of Engineering</th>
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<tbody>
<tr>
<td>Agricultural Business</td>
<td>B.S. Ag.</td>
<td>Aerospace Engineering</td>
</tr>
<tr>
<td>Agricultural Economics &amp; Rural Sociology</td>
<td>B.S. Ag.</td>
<td>Civil Engineering</td>
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<td>Agricultural Education</td>
<td>B.S. Ag.</td>
<td>Chemical Engineering</td>
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<td>B.S. Ag.</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>Agricultural Mechanization</td>
<td>B.S. Ag.</td>
<td>Engineering Physics</td>
</tr>
<tr>
<td>Animal Science</td>
<td>B.S. Ag.</td>
<td>Engineering Science</td>
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<tr>
<td>Food Technology &amp; Science</td>
<td>B.S. Ag.</td>
<td>Industrial Engineering</td>
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<tr>
<td>Forestry</td>
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<td>Mechanical Engineering</td>
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<tr>
<td>Ornamental Horticultural &amp; Landscape Design</td>
<td>B.S. F.</td>
<td>Metallurgical Engineering</td>
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<tr>
<td>Plant and Soil Science</td>
<td>B.S. Ag.</td>
<td>Nuclear Engineering</td>
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<td>Wildlife and Fisheries Science</td>
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<td>College of Veterinary Medicine</td>
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<td>B.F.A.</td>
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<td>Zoology</td>
<td>B.A.</td>
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<td>Nursing</td>
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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. NOTE: All international students whose native language is not English must also take an English Proficiency Examination after they arrive on campus. Students will be placed in appropriate English courses based on the results of this examination.

Advanced Standing by Examination

Students at The University of Tennessee, Knoxville may accelerate their programs through credit by examination. To receive such credit, a student must be regularly enrolled at the Knoxville campus.

ADVANCED PLACEMENT EXAMINATIONS

Students who satisfactorily pass Advanced Placement Examinations prepared and administered under the auspices of the College Entrance Examination Board are eligible to receive credit in courses offered by the College of Liberal Arts on the basis of such tests. In each case the final decision on how much credit is to be given on this basis rests with the appropriate department, 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. Participating departments are Botany, Chemistry, Classical Languages, English, German, History, Mathematics, Physics, Romance Languages, and Zoology.

PROFICIENCY EXAMINATIONS

Proficiency examinations for advanced standing are offered in the Colleges of Agriculture, Business Administration, Education, Engineering, Liberal Arts, and Home Economics, and in the School of Nursing (Knoxville). A student may obtain the privilege of taking proficiency examinations on recommendation of the head of the department and approval of the Registrar. See additional discussion on page 22.

Additional Requirements for Registration of Admitted Students

MEDICAL HISTORY

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

PARTICIPATION IN ORIENTATION

Beginning freshman and transfer students are required to attend an orientation session prior to their first registration at the University. Schedules for these programs are mailed to admitted students by the Dean of Student Conduct and Orientation. Orientation programs are designed to help new students become acquainted with opportunities and services at the University, and to provide information needed for registration.

Faculty Advising

Once students are admitted, the University accepts certain responsibilities for their guidance and placement in order that they may secure the greatest benefit from their university work. 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 a well-rounded 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. Although students are urged to consult frequently with advisers, they are required during the fall quarter to have a conference sometime within a five week period between early October and mid-November at which time students will receive winter quarter preregistration scan sheets. A tripartite meeting of the adviser, student, and representative ofuging students’ progress in academic programs, career planning, professional development and other related activities.

All beginning students, and former students whose grade point averages are below 2.00, must obtain adviser approval of their course selections at registration.

The College 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, 900 Volunteer Boulevard, 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.

Special State and Federal Laws for Educational Purposes

SENATE BILL 1445

Persons sixteen 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 of Tennessee 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 UTK 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 and 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 to admissions 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.

AMERICAN HISTORY

Effective July 1, 1978 and afterwards, all students receiving a bachelor’s degree must have completed one unit of American history on the high school level or 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 (Tennessee Code Annotated 549-3253).

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>Quality Points</th>
<th>Performance Per Quarter Hour of Credit</th>
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</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>

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 years after the course was attempted. A student need not be enrolled at the University to remove a temporary grade. An (incomplete) is assigned to a student whose work is satisfactory but who has failed
to complete a laboratory, shop, or other parallel exercise. The I 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 written or oral form. 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 will be recorded as an SI, which is not computed in the average.

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.

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

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

SI (incomplete) is assigned in S/NC graded courses only. See below.

W (withdrawal) is assigned in courses from which a student has officially withdrawn. Regulations concerning withdrawal from courses or from the University appear in the following section 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 in 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) systems of grading has been developed for undergraduate courses (1000, 2000, 3000, and 4000 level courses). Neither grade is counted in the student's grade point average but, like all other grades, is entered on the permanent record. S is given for C or better work on the traditional grading scale and NC is given for less than C work. The student only receives credit in the course if an S is received. A student may not repeat a course for S/NC if the student received a conventional grade (A, B, C, D, F, or I).

The instructor of a conventionally graded course may not be informed which student, 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 Registrar.

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.

Graduate students and Undergraduates taking courses for graduate credit are graded as follows:

A — (4 quality points per quarter hour); indicates superior work.
B+ — (3.5 quality points per quarter hour); indicates above satisfactory work.
B — (3 quality points per quarter hour) indicates satisfactory work.
C+ — (2.5 quality points per quarter hour); indicates performance less than expected.
C — (2 quality points per quarter hour); indicates work of borderline quality. This grade represents work below the standard expected of graduate students.
D (1 quality point per quarter hour); indicates clearly unsatisfactory work and carries no graduate credit.
F — (no quality point value); indicates extremely unsatisfactory work and
I — (no quality point value); indicates that the student has done satisfactory work in the course, but— because of circumstances beyond control—has been unable to finish all requirements. It is not to be given to enable a student to do additional work to bring up a deficient grade. All incompletes must be removed within 2 quarters. If a supplementary grade report has not been received in the Graduate Office one week prior to the end of the second quarter, the I will be converted to an F. The incomplete will not be counted in the cumulative average until a grade of C or better is indicated. A student may graduate with an I on his record.

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 grading is allowed only where indicated in the Graduate Catalog. S/N is used for courses which culminate in a thesis, dissertation, or preliminary examination. The N grades take on the value of the S when the thesis or dissertation is accepted by the Graduate School. The number of S/NC courses to be allowed in a student's program of study shall be limited to one-fourth of the course work hours required (excluding thesis or dissertation) in a program. This would be 9 hours or 12 hours in a 48-hour non-thesis program or 18 hours in a doctoral program of 72 hours excluding dissertation hours.)

Graduate students are required to make an overall minimum grade average of B in courses taken for graduate credit. No graduate student shall be allowed to repeat a course for the purpose of raising a grade already received. Transferred work will not be counted in computing the grade average on courses completed in other institutions. All 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.

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, on 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, NC.

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 through work in the Writing Laboratory. Remedial work in the laboratory shall be started as soon as possible after the student has been notified of the deficiency and it shall continue until the student's performance in English has been declared satisfactory by the laboratory instructor.

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. The instructor whose section the student wishes to enter. Students may not add courses after the second meeting of a class without permission of the instructor 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 intend to leave the University prior to the completion of a quarter report their withdrawal to this office.

Withdrawal 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 with a W (withdrawal) before mid-term (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 neither the instructor’s nor the adviser’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 should consult the Graduate School Catalog for regulations concerning the dropping of courses.

Dropping Courses or Withdrawing from the University after Mid-Term (35 calendar 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:

- illness or injury of the student as verified by the student health service or private physician;
- serious personal or family problems as verified by the student’s parents, minister, physician, etc.
- necessary change in work schedule as verified by the student’s employer;
- change of major to 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;
- financial inability to continue at the University;
- 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.

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<th>QUARTER HOURS PASSED</th>
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<td>All Other Undergraduate Programs</td>
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- offering the course and a four-digit course number. These numbers indicate course level, as follows.
  - Course Numbers and Levels
  - 0000-0999 Non-credit; preparatory
  - 1000-2999 Lower division—primarily for freshmen and sophomores
  - 3000-4999 Upper division—primarily for juniors and seniors; usually available for graduate credit; when taken for graduate credit, the letter "S" will precede the course credit hours on the grade report.
  - 5000-5999 Graduate; sometimes available for undergraduate credit; when taken for undergraduate credit, the letter "U" will precede the course credit hours on the grade report
  - 6000-6999 Advanced graduate; open to graduate students only
  - 7000-8999 Law; occasionally open to other qualified students

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.

**Classification**

Undergraduate, law and veterinary medicine 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 registered in 12 quarter hours, including the full summer quarter. Six hours for each separate term of the summer session are required for full-time classification. Audit hours are not considered in the computation.

**Teacher Certification**

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

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 Retention Standards**

To be eligible to continue at The University of Tennessee, Knoxville an undergraduate student must maintain a cumulative grade point average of at least 2.00 is required to begin upper-division work.

**Total Quarter Hours Minimum Acceptable Grade Point Average**

| 035.9 | 1.00 |
| 36-83.9 | 1.50 |
| 85-149.9 | 2.00 |

A student whose grade point average falls below the minimum acceptable level in any quarter will be placed on academic probation for the subsequent quarter of enrollment. During the probationary quarter the student must attain the minimum acceptable average shown above, or a 2.00 average for that quarter, or be dropped from the University.
A student who has attempted 150 hours or more will be checked for graduation requirements only, except when on academic probation. Failure on academic probation, or academic probation, must attain a cumulative average of 2.00 or 2.00 for that quarter, or be dropped from the University.

A transfer student who has been conditioned and fails to meet the regular University standards of retention during the probationary quarter, or any subsequent quarter before attaining good standing, will be dropped from the University and may not make application for readmission for three academic quarters. 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 quarters prior to attaining good standing, will result in the student's being dropped from the University and being ineligible to make application for readmission for three academic quarters.

Readmission
A student in good academic standing who has withdrawn from school or has been absent for a quarter or two and announces the willingness to attend school again and complete the work for which he is withdrawn, may continue in residence at the University, even though the cumulative average does not meet the minimum acceptable level above.

A student who has been dropped academically 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.

Former students who have been enrolled at accredited colleges or universities must apply for readmission. An official transcript and an acceptable combined grade point average is required for readmission.

General Policies
A. Any student who attains a quarterly average of 2.00 or better may continue in residence at the University, even though the cumulative average does not meet the minimum acceptable level above.

B. Summer quarter is considered a regular academic quarter in satisfying the requirement of compulsory absence due to academic deficiency.

C. Quarter hour attempted are used only for determining the minimum acceptable level for the grade point average. Satisfactory/No credit hours are included in hours attempted but excluded in calculating minimum cumulative grade point average requirements for graduation.

D. Students who transfer to other accredited colleges or universities must submit official transcripts and have an acceptable combined grade point average before being readmitted to the University.

E. Correspondence courses are open to students regardless of admission or readmission status.

F. To register for credit courses in any branch center or division of the University controlled by the Knoxville campus (except correspondence courses), a student must meet the admission or readmission regulations that govern courses for credit at the Knoxville campus.

G. The 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. A student will not be readmitted when the record indicates a very low probability of success in college work.

H. No student refused by the Committee on Readmissions may be permitted to reenter the University without the approval of the Committee.

I. There are no tentative readmissions. J. 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 about the same time as the quarterly grade report. This letter will advise conferring with the student's 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 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 requirements change frequently, and students should note the caution on the second page of this catalog. A student is allowed to satisfy requirements for a bachelor's degree under any curriculum in effect during the student's attendance at UT. Knoxville provided the curriculum has been in effect within the last 5 years of the student's graduation. This does not obligate the University to offer a discontinued course. Other sets of requirements will be available only upon approval of a student's faculty advisor and the Registrar and then again in consultation with the Registrar's Office. A student who transfers to UTK subsequent to prior enrollment at a community college, junior college, or another senior institution may elect the UTK catalog in effect at the time of enrollment at the other institution provided that the student enrolls at UTK within one year after the last period of study at the institution from which the student is transferring.

2. Maintain a cumulative grade point average of at least 2.00 on all college work attempted at all institutions attended.

3. Maintain a grade point average of at least 2.00 on all work attempted at The University of Tennessee. A 2.00 average is obtained by having two quality points for each quarter hour attempted, not including hours for which grades of NC, S, and W have been received.

4. Maintain a grade point average of at least 2.00 on the last 45 hours (last three quarters as a minimum) of work at The University of Tennessee. A 2.00 average is obtained by having two quality points for each quarter hour attempted, not including hours for which grades of NC, S, and W have been received.

5. Complete the last 90 hours of credit offered for the bachelor's degree at an accredited senior college.

6. Complete the last 45 hours of credit offered for the bachelor's degree in residence at The University of Tennessee, Knoxville. In the College of Agriculture at least twenty-seven quarter hours of upper division technical agriculture approved by the student's faculty adviser must be completed at The University of Tennessee, Knoxville. Work taken for credit through the University's Continuing Education programs in courses presented by the faculty of the Knoxville campus may be counted as part of this requirement, with the exception of the correspondence credit limitation noted below. Special arrangements to allow work taken at other University of Tennessee campuses to be counted as part of this requirement must be approved by the dean of the student's major college or school.

7. Comply with the provisions of the State of Tennessee's law that one unit of American history from high school or nine quarter hours of collegiate work be satisfactorily completed. Requirement is effective for those graduating July 1, 1978 or afterwards. Completion of History 2510-20 (or History 2518-28) and History 2511 or 2521 will satisfy the requirement. History 3311 or 3321 may be used in lieu of three hours of American History.

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

9. Pay to the Treasurer's Office a $10.00 graduate fee no later than the beginning of the quarter of graduation.

10. File an application for a degree with the Office of the Registrar, Room 209 Student Services Building, no later than six weeks before the date of graduation.

SECOND BACHELOR'S DEGREE
A student who holds a bachelor's degree may receive a second bachelor's degree from The University of Tennessee, Knoxville, by satisfying the following requirements.

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

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 each quarter of the Vice Chancellor for Graduate Studies and Research.

Correspondence Work
A student may offer correspondence as much as one-fourth of the total hours required for the degree sought and have this work counted toward the degree. Credit for undergraduate courses in correspondence in
the major subjects shall be limited to one-fourth of the total credit hours required. Correspondence credits are not recognized by the College of Law or—except by prior permission—by the Medical Units.

All courses taken by correspondence for which degree 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 UTK 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 student 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 of their respective states concerning the amount of extension and/or correspondence credit allowed for a teacher's certificate.

Proficiency Examination

A student may apply for proficiency examinations in selected undergraduate subjects in the College 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 should present evidence that abilities and attitudes have been developed comparable to those of students who have taken the course. 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. Exception 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 I) 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 adviser should be consulted for assistance in planning an accelerated program.

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 Arts in College Teaching.

Master of Business Administration.
Master of Engineering.
Master of Fine Arts.
Master of Mathematics.
Master of Music.
Master of Public Administration.
Master of Public Health.
Master of Science.
Master of Science in Library Science.
Master of Science in Planning.
Master of Science in Social Work.

College of Agriculture
Bachelor of Science in Agriculture.
Bachelor of Science in Agricultural Engineering.
Bachelor of Science in Forestry.
Bachelor of Science in 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 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.
authorized by the University after annual review depending on prevailing hospital costs in the Knoxville 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 comparably 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 participation is solicited. Enrollment in the insurance program remains open for a designated period after classes begin. Students wishing to avail themselves of this insurance after arriving on the campus may obtain the application from the Office of Student Health Services. Whether application is made from the 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 the nineteenth birthday. The family hospitalization insurance policy should be reviewed from this aspect.

Military Deposits. All students registering for Air 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 validated quarterly 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 344, 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
Undergraduate Students Per Quarter $150.00
Graduate and Law Students Per Quarter $160.00
TUITION (additional for all-out-of-state students) Per Quarter $300.00

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:
In-State $16.00 per quarter hour or fraction thereof; minimum charge $48.00
Out-of-State $38.00 per quarter hour or fraction thereof; minimum charge $114.00
Graduate and Law Students:
In-State $22.00 per quarter hour or fraction thereof; minimum charge $66.00
Out-of-State $52.00 per quarter hour or fraction thereof; minimum charge $156.00
withdrawal for failure to pay fees or redeem a bad check. All students are required to have a validated fee receipt to complete the registration procedure. This includes graduating and teaching assistants and others whose fees may be billed, prepaid, 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 University is authorized by statute to withhold diplomas, grades, transcripts and registration privileges on any student until student debts and obligations (other than Student Loan Fund notes) owed to the University are satisfied.

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 accounts which must be billed to outside agencies, organizations and institutions. The University will charge a second additional $10.00 late service fee (total $30.00) and may, at the discretion of the University, be automatically withdrawn from the student's account and assessed the appropriate fees as of the due date dropped.

RESTATEMENT SERVICE FEE $10.00

A student withdrawn (or subject to withdrawal) for the above reason (or any other reason) who may be permitted to continue enrollment for the quarter will be charged a $10.00 reenrollment service fee.

RETURN CHECK SERVICE FEE POLICY

In the event a check given to the University in payment of initial fees and charges fails to clear the bank, the late registration service fee in effect at the time the check is redeemed (or suitable arrangements made) will be assessed, plus a $10.00 Return Check Service Fee (maximum $30.00). Any student who does not respond promptly and is thereby subject to withdrawal from the University will be assessed the $10.00 Reenrollment Service Fee and the $3.00 Deferred Payment Service Fee (maximum $43.00).

For other student checks in the amount of $30.00 or less (including checks for registration and related charges), returned by the bank, the service charge will be $5.00 if the bad check is made good within five days from the date of notice; $10.00 if made good after five days from the date of notice; $15.00 if a bad check in excess of $30.00 (except for initial registration fees), the service charge will be $10.00. If the bad check is made good within five days from the date of notice; $15.00 if made good after five days from the date of notice; or for a bad check in excess of $30.00, the service charge will be $10.00. If the bad check is made good within five days from the date of notice; $15.00 if made good after five days from the date of notice. If it becomes necessary to withdraw a student from school for failure to clear a check, the $10.00 Reenrollment Service Fee will be added to the return check service charges.

Only under extenuating circumstances will a student be reinstated after official form. The appropriate percentage of fees will be charge unless this action is completed by the close of the last day designated for regular registration and before the first official day of classes for the quarter. Failure to promptly notify the Withdrawal Office when withdrawing courses, including a percentage fee assessment. Withdrawal does not cancel fees and charges already incurred. The drop/add procedure must not be used to withdraw from school for the quarter.

For a regular academic quarter, withdrawal within 7 calendar days beginning with the first day following regular registration permits an 80 percent fee refund. Withdrawal between 7 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 withdrawal refund policy, will be made after the drop/add deadline.

On the Knoxville campus for a regular quarter no adjustment is due on courses dropped later than 21 calendar days after the last regular registration day and then only if the remaining hours and/or appropriate quarter hour rate plus the adjusted charge for the course(s) dropped is less than the maximum tuition and/or registration fee or the amount charged and paid. There is no charge for courses dropped during the first seven calendar days following regular registration if three or more quarter hours remain on the student's schedule. A course on a student's schedule is not dropped until a drop/add slip is processed and recorded by the Admissions and Records Office. Any refund due for 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 additions, credits or refund. Other information on rental fees, 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 exceptions of the University Programs and Services Fee as noted above.

Although the summer quarter is divided into terms of varying lengths, 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 term 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 actual accommodations and 20-meal board plan in University faculties. Estimates for equivalent accommodations and meals elsewhere will usually be somewhat higher.

**Under-Graduate Student & Law**

| Maintenance Fee | $450 | $480 |
| Programs & Services Fee | 45 | 45 |
| Room and Meals | 1,290 | 1,290 |
| Books, Supplies, etc. | 215 | 285 |
| **Total for Tennessee Residents** | **$2,000** | **$2,100** |
| **Add for Non-Resident Tuition** | **$2,900** | **$3,000** |

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

### 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 students are required to live in University residence halls 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, the housing contract is cancelled in accordance with procedures 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 arranged 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 University Campus students. The student is responsible for obtaining off-campus housing. The University does not inspect or approve these facilities. Terms and conditions for the rental of off-campus housing are between the student and the landlord. Information and assistance in locating off-campus housing is available in the Off-Campus Housing Office located in 33 University Center.

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

**Married Students.** The University has provided modern apartment facilities in several locations for married students with families. Information on these facilities may 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 air-conditioned, conveniently located in relation to residence halls, and serve nutritious 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 dietary and service staff to ensure 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 the student. For students not under the Board Plan, meals can also be obtained from campus cafeterias on a cash basis.

In addition, the Food Services Department offers a charge plan whereby students can charge meals and may have 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 special "theme" meals offered in the University dining facilities 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 this financial assistance, eligible students 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 of Tennessee utilizes the need analysis system of the College Scholarship Service (CSS). Through the use of the CSS forms, the Parent’s Confidential Statement (PCS) and the Financial Aid Form (FAF), the Financial Aid Office determines the amount of aid the parents and students could generally be expected to contribute toward meeting educational expenses. For more detailed information on the determination of need, please refer to the brochure entitled, "Financial Assistance For Students."

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 sources, and individuals, and alumni. The majority of these scholarships are coordinated by the Financial Aid Office. Some undergraduate scholarships for currently enrolled students are administered in the various schools and departments of the University.

Most scholarships are awarded to students who demonstrate strong academic achievement and genuine 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 financial statement is not necessary. Academic achievement is judged 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 cumulative grade point average in college.

All scholarships, including merit scholarships, are highly competitive; despite the generosity of University friends and alumni, there are not enough funds to provide scholarship aid to all qualified students. Annual scholarship stipends range from $100 to $750.

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

High school students should contact their school counselor or principal concerning 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. Grants may be extended for a maximum of 12 quarters and 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, and exceed one-third of the student’s need for assistance. The above regulations and provisions of the Supplemental Educational Opportunity Grant are subject to change by federal regulations and action.

**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 bachelor’s 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 two-semester (12) month 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 half-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. Interest is 3 percent 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 percent 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 enrolment of low-income families or become a teacher of the handicapped, 15 percent of the total principal plus interest is cancelled for the first and second year of teaching, 20 percent for the third and fourth year, and 30 percent of the fifth year. If upon graduation you become a staff member in a preschool program which is operated for a period comparable to a full school year, 15 percent of principal plus interest will be cancelled for each year of service. Cancellation for up to 50 percent of the loan will also be given at the rate of 12 1/2 percent of the total principal plus interest for each year of Armed Forces service in an area of hostility.

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. 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. One surcharge is required for each promissory note and a new promissory note must be completed for each loan installment. The interest is 3 percent 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 the 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 termination of half-time study at an accredited school of nursing. Repayment may also be deferred for a period up to three years while the borrower is serving in the Armed Forces or Peace Corps or up to five years for a 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 private agency or institution, up to 85 percent of the principal may be cancelled at the rate of 15 percent of the loan that was unpaid on the first day of employment plus interest for the first three years of employment and 20 percent for the fourth and fifth year.

A Nursing Student Loan or any other educational loan will be repaid by HEW if the nursing graduate enters into an agreement to serve as a full-time registered nurse for a continuous period of at least two years in an area designated as having a shortage of nurses. Thirty percent of principal and interest will be cancelled for the first two years of service and 25 percent for the third year. The above regulations and provisions of the Nursing Loan Program are subject to change by legislative action.

Health Professions Student Loans

The Health Professions Student Loan is available to students who are enrolled or admitted in a course of study leading to a degree of Doctor of Veterinary Medicine 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 twelve months following termination of full-time study at an accredited health professions school. Repayment may also be deferred for a period up to three years while the borrower is serving in the Armed Forces or Peace Corps or for the years required for a full-time course of study leading to advanced professional training. Interest is 3 percent per year on the unpaid balance; the maximum repayment period is ten years. However, a minimum monthly payment may be required. The maximum loan available to an individual borrower in an academic year is $20,000. The above regulations and provisions of the Health Professions Loan Program are subject to change by federal legislative action.

Student Employment

Two employment programs are administered in the Financial Aid Office to help students find part-time employment.

The College Work-Study Program is a federal work program which provides jobs for students who have financial need and who must earn a part of their educational expenses. Eligible students are placed in jobs on or off campus where they work approximately fifteen (15) hours per week.

The Student Employment Service operates as a central referral agency. It coordinates listings of part-time employment from both University and private employers with the requests of students seeking part-time employment. Referrals are made in accordance with the student's skills and qualifications. Part-time jobs average from 15 to 20 hours per week. If part-time employment is a financial necessity for the student with a low grade average, he/she is advised to accept a job requiring fewer hours of work per week.

Spouses of full-time students or students not enrolled full-time in the University should contact the Personnel Office, 1900 Terrace Avenue, The University of Tennessee, Knoxville, 37916, concerning employment.

Other Assistance

The Basic Educational Opportunity Grant Program's central purpose is to assist in making available the benefits of post-secondary education to qualified students who display a financial need for aid.

The program is administered by the U.S. Office of Education, and applications are available in high schools and post-secondary educational institutions. The student submits the application in the form of the FAFSA and is, in return, notified of the expected family contribution. The student then forwards the notification form to the institution which he/she plans to attend. The Financial Aid Office then reviews the expected family contribution, computing and dispersing the B.E.O.G. funds to the student.

When the program is fully funded, maximum grants are $1400 less the parent contribution and not more than one-half of the cost of education. For information write to U.S. Office of Education, Washington, D.C. All undergraduate applicants for financial assistance must apply for the Basic Educational Opportunity Grant if they meet the eligibility requirements. The total amount of aid offered by the Financial Aid Office is based on the receipt of this program. For Guaranteed Student Loans to help meet educational expenses may be available through the federal government or a state guaranteeing agency. Contact your local bank or credit union to determine their participation in the program. If you receive the loan, you must be admitted to or in regular full-time attendance in good standing at the University. Interest on such loans is paid by the federal government while the student is in school if the student is eligible for interest benefits. During the repayment period which begins no less than nine months after graduation or withdrawal from the University, the student pays interest. The student is responsible for the interest. The maximum amount of a loan to an undergraduate in a twelve-month period cannot exceed $2500.

Total loans outstanding may not exceed $7,500 for the undergraduate or $10,000 for the graduate student.

Complete information is available at most banks and credit unions. In the state of Tennessee, write the Tennessee Student Assistance Corporation, 707 Main Street, Nashville, Tennessee 37206.

Tennessee Student Assistance Grant

The Tennessee Student Assistance Grant is designed to further the opportunity for higher education to residents of the state. Tuition grants range from a minimum of one hundred dollars ($100) to a maximum of one thousand dollars ($1,000), dependent upon the institution and the amount of tuition and mandatory fees assessed by the institution. The highest grant at the University of Tennessee, Knoxville is approximately four hundred fifty dollars ($450).

All undergraduate applicants for financial assistance should apply for the Tennessee Student Assistance Grant if they meet the eligibility requirements.
More information may be obtained on this program by writing to the Tennessee Student Assistance Corporation, 707 Main Street, Nashville, Tennessee 37206.

Application Procedures
Because a student's family resources can deteriorate significantly during an academic year, the University requires each student to apply annually for renewal of financial aid.

(1) Complete and submit the Application for Student Financial Aid on or before the following priority deadline dates: March 1—Entering Freshmen, April 1—Currently Enrolled and Transfer Students.

(2) Complete and submit a Parents' Confidential Statement and/or Financial Aid Form to the College Scholarship Service approximately three weeks prior to the priority deadlines. If you are applying only for an academic merit scholarship, a financial statement is not required.

(3) Complete and submit an application for the Basic Educational Opportunity Grant if you are requesting assistance based on financial need.

Financial aid programs, policies, and procedures are subject to annual change. Therefore, those interested in applying for financial aid should consult the current informational brochure, "Financial Assistance for Students," distributed by the Financial Aid Office.

Applications for financial aid can be obtained by writing to The Financial Aid Office, 301 Student Services Building, The University of Tennessee, Knoxville, Tennessee 37916. Graduating Tennessee high school students are encouraged to obtain application materials and information from their high school guidance counselor.

The University of Tennessee wishes to express gratitude to the contributors and donors of the following scholarships:

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<td>Grace and Brodie Baynes Scholarship in Accounting</td>
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Wilson County Agricultural Extension Scholarship
H.W. Wilson Scholarship
Winchester Rotary Club Agricultural Scholarship
J.H. Winstead, Jr. Memorial Scholarship Fund
Chancellor Glen W. Woodilee Scholarship Fund
Dick Wright Scholarship
Gerti Wundulich Scholarship in German
Edwin F. Zwicker Scholarship

The University of Tennessee wishes to express gratitude to the contributors and donors of the following loan funds:

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Students Loan Fund (Special)

Students Loan Fund of the 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 3.75 through 4.0), "With High Honors" (3.40 through 3.74), "With Honors" (3.0 through 3.89). 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 sophomore, junior, and senior students in the Department of Animal Science who are of good moral character and rank scholastically in the top 10 percent 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 two weeks of leadership training at Camp Minwawan on the shores of Lake Michigan for an outstanding agricultural student following the freshman year.
The Forestry Faculty Scholarship Award, given annually at the end of the junior year of the recipient 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 best graduating senior student with the highest scholastic average. The award is cash in and a framed certificate.

M. Jacob Animal Husbandry Award, given by East Tennessee Packing 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 initiate 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 field.

Lutz Insurance Award, given by J.E. Lutz & Co., Inc. Cash award to finance major submittin 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.

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

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

Karl 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.

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

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

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

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.

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

Pen Women of America Scholarship. $100 given by the Knoxville Branch to an outstanding junior journalism student who has shown promise as a writer.

Frank B. Powers Scholarship, 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.

Society of Professional Journalists, 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 Society of Professional Journalists, 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. Membership to senior woman selected on basis of scholarship and leadership qualities.

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

College of Engineering
American Chemical Society, East Tennessee Section of the 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 and certificate presented yearly to a member of the student section for outstanding work with 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 one or more outstanding students in engineering.

Association of Textile Industrial Engineers Award. A $500-year award based on need, given by the Department of Industrial Engineering to a senior.

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

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

East Tennessee Section of the Institute of Electrical and Electronics Engineers. Cash award made annually to junior in electrical engineering with an outstanding scholastic record.

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. Weisberg Memorial Award. An annual award given by the department to an outstanding senior majoring in engineering science. Letter of recognition, plaque.

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

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 Snoddy Scholarship Endowment Fund. Cash award in recognition of scholastic achievement and evidence of high potential as a future engineer to one or more upperclass 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.

University of Tennessee Book and Supply Store Award. An electronic calculator awarded quarterly. Chosen by departmental committees in rotation. Given to an upperclassman on the basis of need and demonstrated academic performance.

College of Home Economics

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


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

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 Hotel Motel Association Scholarship. Awarded to student enrolled in the food and lodging administration program. $500.

Lewisohn Scholarships, endowed by Frederick Lewisohn. Ten, Variable.

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.

National Institute of the Foodservice Industry. Awarded to student enrolled in the food and lodging administration program. $600.

Omicron Nu Sophomore Scholarship Award. $100. Awarded by the home economics honor fraternity.

Joe Powell Memorial Scholarship - District II-H 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.

Schenley Industries Scholarship. Awarded to student enrolled in the food and lodging administration program. $300.

Scruggs Restaurant Equipment, Inc., Scholarship. Awarded to student enrolled in the food and lodging administration program. Two, $250 each.

Stoutier Foods Corp. Scholarship. $300.

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

Tennessee Dietetic Association. Awarded to upperclassmen enrolled in dietetics program.

Tennessee Rehabilitation Corporation Scholarship. Ten, $425 each.

Tennessee Restaurant Association Scholarship. Awarded to student enrolled in food and lodging administration program. $500.

Association of Extension Home Economists. $250.


University of Tennessee General Scholarships. Various.

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

Western Sizzlin Steak House Scholarship. Awarded to student enrolled in the food and lodging administration program. $500.

College of Law

Bobb-Merrill Company Prize. A copy of Tennessee Code Annotated to student who has attained the highest average during three years of law study.

Callaghan and Company Prize. A copy of Brown on Personal Property to student who has attained the highest average during the junior year in the College of Law.

Herbert L. Davis Memorial Trust Fund. An award of $100 to the law student who has the highest scholastic average for the first two years of work in the College of Law.

Syllus E. Hodges Memorial Scholarship Fund. An award of $125 to third-year student who has demonstrated outstanding character, scholarship, and interest in the Legal Clinic program.

Knoxville Auxiliary to the Tennessee Bar Association. An award of $100 to law student who has the highest scholastic average in the first year of work in the College of Law.

Lawyers Cooperative Publishing Company and the Bancroft-Whitney Company. The joint publishers of American Jurisprudence offer separately bound topics from the encyclopedias to students receiving the highest grades in each subject.

United American Bank of Knoxville. In memory of C.M. Preston, three prizes are offered annually to those members of the senior class who draft the best will based upon a hypothetical state of facts. First place prize amounts to $125, second prize $75, and third $50.

United States Law Week Award. The editors have established an award consisting of a year's subscription to the Law Week for the member of the senior class who makes the most scholastic progress during the senior year.

West Publishing Company Award. A title selected from its Hornbook Series is offered annually to that member of each of the three classes who achieves the highest scholastic average in the class.

West Publishing Company Award. A title selected from Corpus Juris Secundum is offered annually to the member of each of the three classes who has made the most significant contribution toward overall legal scholarship.

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 1848-50-68.

Bain-Stillert Poetry Prize, for excellence in writing conventional forms of English poetry. $65.

Philip 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.

Eleanor R. Burke Award, for excellence in expository writing. Founded in honor of the daughter of a former head of the English department, $55.

Captain Robert A. Burke Award, for excellence in English prose fiction. Founded in honor of the son of a former head of the English department, $55.

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. $360 to history major with financial need.

John C. Hodges Scholarships. Each year one or more scholarships, supported by the Better English Fund, established by John C. Hodges, are awarded to outstanding English majors. These awards are made at the end of the junior year and carry remission of in-state fees for the senior year of study. Applications are not accepted; selection is made by a departmental committee on the basis of superior academic performance in English.

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

Knickerbocker Poetry Prize, for excellence in writing English poetry. Founded by the late Stephen L. Moore in honor of a former head of the English department, $50.

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

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 Tennessean D.A.R. American History Scholarship. Intended for a female 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 course.

Benedicte Schmitt History Scholarship. Two scholarships of $500 each for academic excellence, and one of $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 Handy, 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. Verstandig 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.
one-third of their respective electrical engineering class.

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

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

Gamma Sigma Delta, agricultural honor society for graduating seniors, graduate students, faculty, and agricultural and home-related majors. Membership 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 or superior ability in carrying on advanced study and/or research directly concerned with agriculture and of making worthy contributions in their respective fields.

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

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.

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

Omicron Delta Kappa, for junior and senior students.

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

Order of the Okef, for law students.

Phi Alpha Delta, for law students.

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

Phi Beta Kappa, the oldest national academic honor society, for liberal arts juniors and seniors who are chosen for either the Bachelor of Arts or the Bachelor of Science in Chemistry degree. Grade point average varies with number of hours completed; minimum is 3.50. At least 90 hours must have been earned at UTK. Students must have completed the second college year course (or equivalent) in a foreign language. Election takes place in October and April. For detailed statement of requirements, inquire in Liberal Arts Student Academic Affairs Office, 218 Ayres Hall.

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 who have been graduated from accredited 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 Eta Sigma, for freshmen who have a minimum grade point average of 3.5 the first quarter or first three quarters while carrying a full academic load. All candidates must rank in upper 20 percent of their respective class.

Phi Kappa Phi, broadest of the national honor societies, recognizing all fields of learning. Prospective members must be seniors ranking among the upper 10 percent of their class, with a minimum 3.0 average. Meeting these requirements does not necessarily assure election.

Phi Mu Alpha, (Sinfonia), professional music fraternity for students interested in music. Requirements: 2.5 over-all average. The main purpose of the organization is to further American music in the campus and community.

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

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

Phi Lambda Theta, A national honor and professional association in education. Open to juniors and seniors with a minimum 3.2 GPA and graduate students with a minimum 3.5 GPA. Membership by invitation.

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

Phi 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.

Sctarabbe 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 2.78 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 upper-class and 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, national honor society for engineering students. The highest of honors in the engineering class and the top one-fifth of the senior engineering class, scholastically ranked, may be elected. Elections are held in the fall and winter quarters. The organization conducts programs and projects of benefit to students and the University.

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

Xi Sigma Pi, forestry honor 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 spring quarter of the year having the greatest degree of benefits of active membership.
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 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, a credentials service, and training in interviewing, resume writing, and other job search skills.

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 student academic records, certifying completion of requirements for undergraduate degrees, registration procedures, and eligibility for athletic participation. This office also administers relations between students and the Social Security Administration and Veterans Administration.

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

Office of the Dean of Student Activities

The Office of the Dean 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 Recreational Facilities, Student Publications, and all other extracurricular activities of University students.

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 campus. The office is responsible for the summer orientation program, specifically designed for the fall-quarter new student, 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 office records and provides a liaison with the teaching faculty. It coordinates such projects as a community volunteer program and activities for foreign 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 and foreign students admitted to the University are notified in advance and are urged to arrive in time to attend.

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, 301 Alumni Hall, The University of Tennessee, Knoxville, Tennessee 37916, U.S.A.

UNIVERSITY INTERNATIONAL HOUSE

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 as a facility where domestic and foreign students can 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 university administrators oversees the operation of the House and supervises a variety of weekly programs.

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 billion ton swimming facilities, outdoor recreation equipment rental, 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 160-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 banquettes, 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 95,000 paperback book selection, technical and reference books, and numerous study aids are available on this floor. The first floor offers a complete stock of engineering, art and school supplies, records, tapes, art prints, posters, and other items of student need.

Small branch stores are located in Hess Hall, Presidential Court, and Andy Holt Apartments. These stores are open 6½ days a week for the student's convenience.

Students benefit indirectly from their patronage of the University Book and Supply Stores since all profits are used to help support the operations and activities of the University Center and Aquatic Center. The stores are the only locations on campus where students may cash personal checks.

Office of Recreation

"Fun for Everyone" is the motto of the Office of Recreation; the primary objective is to serve students by means of activities for their leisure time. Students are encouraged to take maximum advantage of both the program and the facilities.

STUDENT AQUATIC CENTER

The Student Aquatic Center Recreation Complex affords year-round recreation for all students. Outdoor activities include an Olympic-size swimming pool with a diving well having two one-meter and two three-meter diving boards, and an olympic diving tower with five, seven and one-half, and ten
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 program.

The co-rec activities are organized as an informal league with modified rules so that men and women can participate on an equal basis.

The activities are badminton, basketball, horseshoe, paddleball, racquetball, 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, football, handball, paddleball, racquetball, shuffleboard, softball, squash, table tennis, tennis, turkey trot, and volleyball.

**SPORTS CLUBS**

Sports Clubs are organized when students express an interest in a certain activity or because of anticipated needs. The Sports Club Office will assist any student wishing to organize any type of sports club.

The Sports Club Office is located in the Student Aquatic Center, Room 202. The clubs are archery, badminton, bicycling, bowling, boxing, canoe & hiking, crew, dolphin, equestrian, fencing, flying, floor hockey, gocart, gymnastics, handball, ice hockey, ice skating, judo, karate, lacrosse, racquetball, rugby, sailing, scuba, snow ski, soccer, sports car, table soccer, 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 in their leisure time. Students may check out necessary equipment at each facility upon presentation of their 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 free swimming and diving in one of the most outstanding physical complexes 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 facilities during the past ten 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 quarter. This course is for 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 values and skills on the springboard.

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

7. Varsity swim teams practice 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 quarter for those students who need special care in aquatic activities.

9. Lifeguard School is offered at 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. In fall, a three-week swimming course is taught winter quarter.

11. A Swim For Your Life program is offered to students, faculty and staff throughout the whole year. Records are kept, and certificates are awarded during certain phases of the program.

12. A Faculty Women's swim program is offered fall, winter and spring quarters for faculty and staff women.

13. Community competitive swimming programs are offered each quarter during the student's evening meal hour.

Other offerings include moonlight swim parties, water basketball, water polo, special Carousel showings of aquatic competitive swimming, trampoline and mini-board during supervised activities.

The Aquatic Center is available after hours for private and organizational parties, community aquatic programs, etc. for a fee. This facility has been visited by visitors, professional and nonprofessional, from all parts of the world, who have said it is among the outstanding centers of the United States.

**Student Activities Office**

An extensive program of extracurricular activities is available at The University of Tennessee, with over 200 student
organizations currently functioning. Students have the opportunity to initiate and develop special interests, plan and administer all-campus programs, participate in governance organizations, and to augment the academic offerings of the classroom through participation in departmental clubs and scholastic and professional honorary organizations. The University agency charged with the development and administration of the extracurricular program is the Student Activities Office located in the Student Services Building.

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

Student Health Service
Health services provided by the University are available to any student currently enrolled at the University. These services are available continuously throughout every quarter. The Health Service has a regular staff of physicians, nurses, laboratory and x-ray technicians of Tennessee licensure. Outpatient services in the fields of general practice, internal medicine, and psychiatry are available on a full-time basis while specialty consultants in dermatology, surgery, and gynecology are available through referral by a staff physician. Care beyond that provided by the regular staff can be arranged for the student if desired. Those students requiring allergy injections may arrange to receive them at the Clinic. Charges are made for some services such as x-rays, lab tests, injections, and minor surgery.

Regular daytime hours are posted at the Health Service building, are known to the residence halls' staffs and campus safety officers and are printed in Hill Topics, the student handbook. Emergency care during evenings, weekends, and some holidays is available through the Student Health Clinic at The University of Tennessee Medical Research Center and Hospital except during the longer breaks between quarters. Emergency transportation (including the use of an ambulance when necessary) to either facility may be obtained through campus Security.

Students needing total care may have this arranged by Health Service physicians, if they choose, in The University of Tennessee Medical Research Center and Hospital. Because total care is sometimes needed, it is important for the student to have 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 may work on the 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 staff to develop educational programs and projects to meet the needs of various groups at the University. The Center coordinates the course late drop program and maintains an occupational-educational information library. The Minority Affairs and Withdrawals Office, located in the Center, assists students through personal advising and educational workshops, and handles the withdrawals of all students from the University.

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

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

Students are responsible for being fully acquainted with the University catalog, handbook, and other regulations relating to students and for complying with them in the interest of an orderly and productive community. The student handbook, 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 on or adjacent to the campus for University students. These are the Baptist Student Center, John XXIII Catholic Center, Presbyterian Student Center, Tyson 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 26 national social fraternities and 19 national social sororities on its Knoxville campus. Membership in these fraternities and sororities is by invitation only.

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 Academic Affairs, serves as a central point from which the broad range of international and intercultural interests throughout the University are strengthened and related to each other. Located in 205 Alumni Hall, the 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 through 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 in the U.S.A. and abroad involved in international program development.

Most UK study abroad programs are coordinated through the Division, and new programs are planned with its assistance. Individual counseling by a study, research, and travel abroad consultant, a reference library, and specific programs and projects are available in the Division.

**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 preschool 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 Services Building. In conjunction with the Physical Plant Office, the U.T. Bookstore, the Student Activities Office, and the academic departments, efforts are made to ensure that attendance at the University of Tennessee, Knoxville, is as convenient as 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 in the scheduling of special class sections in order to respond to the particular needs of the physically handicapped.

**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 intracampus 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 campus.

Each person who operates a motor vehicle in connection with attendance or employment at the University must register that vehicle with the Traffic Section of the Security Department. There is no charge for vehicle registration; however, a parking permit is required for parking on all University lots, streets, parking structures or leased lots. 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, located at 1115 UT Drive.

**Cultural Opportunities**

Both the University and the surrounding Knoxville area offer varied cultural opportunities. Exhibits, concerts, recitals, and lectures in the arts are available throughout the year.

**THEATRE**

The University Theatre 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 professional staging, open 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 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.

**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 as well as some of the choirs and glee clubs in the 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 Hills 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 in the previous season selected scenes from the classic repertory.

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

During winter and spring quarters, the band is divided into two concert groups which tour the Southland and performs at basketball games, and the laboratory group which provides valuable training for its members.

Requests for information on scholarships.

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 a 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 Exhibit 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, inaugurated a program in 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.

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.
The University

The Daily Beacon, a student newspaper, The Volunteer, yearbook of campus activities, and The Phoenix, quarterly literary magazine, are sponsored by The University of Tennessee Publications.

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 in 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 by recalling the history and heritage of the past, and by setting examples for future achievement. The Tennessee Volunteer Symbol, spirit of the state and the University, is ever present during the student's campus life. This traditional symbol admonishes would-be leaders to hold their positions high, never shadowing themselves to give light to others.

It is this symbolic "Torch" which first gives the new student a glimpse of one of the many traditions at the University. But traditions at the University may be lighthearted as well as serious. Among the less serious traditions are three annual all-student productions which have become part of the University way of life. These are the noisy, bustling Homecoming, the lil' and melody of All-Sing, 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 1930s to encourage interest in harmony groups, features outstanding singing groups representing campus organizations.

Carnivus, 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, and graduate medical technologists, x-ray technicians, and ancillary health personnel. Out-patient services are furnished to both area residents and University of Tennessee students.

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 administered through the Division of Student Affairs and are under the direction of the Department of Women's Intercolligate Athletics.

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 Intercolligate Athletics for Women.

Eligibility for participation is determined by TCWSF, AIW 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 Southern Conference. Eligibility to participate is determined by the University faculty and the Conference.

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

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.

STOKELY ATHLETICS CENTER

The hub of the University's sports program is Stokely 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 regional 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 court, 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.
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 many 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.
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 certain areas of engineering and science are offered by the Space Institute located adjacent to the Arnold Engineering Development Center, Tullahoma, Tennessee. At the present time, graduate degree programs are available with a major in aerospace engineering, aviation systems, computer science, electrical engineering, engineering science, applied mathematics, mechanical engineering, and physics. In addition to the fundamental academic work characteristic of each discipline, research opportunities and supporting interdisciplinary course work are available to permit specialization in many aspects of atmospheric and space flight such as subsonic to hypersonic aerodynamics; aerospace vehicle design; control and guidance; modern materials and structures; propulsion systems; aircraft noise and sonic boom; flight simulation; avionics; plasma dynamics; flow diagnostics including spectroscopic and electrooptic means; systems management and cybernetics. Course work and research work in related areas of environmental pollution control, earth resources, energy conversion, materials and systems simulation are also available. The research personnel and facilities of the Institute and those available at the Arnold Center through appropriate contractual arrangements provide an outstanding opportunity for meaningful research in these and other areas. Students who enroll at UT Space Institute must be admitted to the Graduate School, University of Tennessee, Knoxville. Further information concerning the Institute may be obtained from the Dean, The University of Tennessee Space Institute, Tullahoma, Tennessee 37388. Application forms and an announcement of the Institute's programs are available upon request.

**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, Knoxville.

Information and appropriate application forms may be obtained from the Director, Kingsport University Center, The University of Tennessee, University Boulevard, Kingsport, Tennessee 37660.

**Oak Ridge Resident Graduate Program:** The University of Tennessee offers graduate study programs at Oak Ridge, with work leading to the Master's degree in industrial management, industrial education, and statistics; and the Master's and Doctor's degrees in the areas of engineering, mathematics, and physical and biological sciences. Courses are given in the late afternoons, evenings and Saturdays, with research facilities provided by and used in cooperation with the Oak Ridge Associated Universities, and the Union Carbide Corporation Nuclear Division. This program is supported under a sub-contract with Oak Ridge Associated Universities with principal support coming

L. Evans Roth, Vice Chancellor for Graduate Studies and Research
Margaret N. Perry, Dean for Graduate Studies
Carl O. Thomas, Dean for Research
from Union Carbide Nuclear Division. The University of Tennessee is one of the 43 colleges and universities which sponsors ORAU, a non-profit education and research management corporation.

Information and applications to the Graduate School may be obtained by writing the Director, 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 leading to the Master’s degree in the area 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.

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 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, Graduate School. Information and appropriate forms may be obtained from the Registrar, The University of Tennessee at Nashville, 10th and Charlotte, Nashville, Tennessee 37203.

**The University of Tennessee — Oak Ridge Graduate School of Biomedical Sciences:** The University provides programs leading to the M.S. and Ph.D. degrees in various areas of biomedical sciences. Graduate students have the opportunity to study and to 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-Service 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 study.

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<th>College of Agriculture</th>
<th>DEGREE</th>
<th>G.R.E. REQUIRED</th>
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*See page 163 for details.
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**College of Engineering**

- Aerospace Engineering
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Engineering Administration
- Engineering Science
- Environmental Engineering
- Industrial Engineering
- Mechanical Engineering
- Metallurgical Engineering
- Nuclear Engineering
- Polymer Engineering

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**College of Home Economics**

- Child and Family Studies
- Consumer Studies and Housing:
  - Public Policy
  - Food Science
  - Food Systems Administration
  - Home Economics
- Nutrition
- Textiles and Clothing

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<th>Major</th>
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**Intercollegiate**

- Aviation Systems
- Ecology
- Organizational Psychology
- Water Resources
  - Development

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**College of Liberal Arts**

- Anthropology
- Art
- Audiology
- Biochemistry
- Biology
- Botany
- Chemistry
- Computer Science
- English
- French
- Geography
- Geology
- German
- German Language and Literature
- History
- Mathematics
- Microbiology
- Music

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All M.S. and Ph.D. applicants obtain special application form from Associate Dean, College of Home Economics.
Environmental Center

Director:
J.H. Gibbons, Ph.D. Duke.

Associate Director:
R.A. Bohm, Ph.D. Washington (Missouri).

The Environmental Center was created to encourage and support UT faculty and students to become involved in interdisciplinary studies to provide alternative solutions to problems related to energy and the environment. The Center provides assistance to faculty interested in developing research and public service projects, manages research and development projects that involve several disciplines, and assists Tennessee government and industry in specific problems related to energy and environment. It also participates in the Statewide Consumer Education Program, especially in developing material.

Projects include the following: environmental and human costs of coal production, solar energy utilization in buildings, energy conservation in buildings and industry, and regional solid waste management and resource recovery.

The Center is operated by UT, Knoxville through the Office of the Vice Chancellor for Graduate Studies and Research.

Transportation Center

Director:
K.W. Heatington, Ph.D. Northwestern.

Associate Directors:
F.W. Davis Jr., Ph.D. Michigan State; R.A. Mundy, Ph.D. Pennsylvania State.

Assistant Directors:
D.H. Jones, M.S. Tennessee; R.L. Perry, M.S. Tennessee; P.R. Tutt, M.S. Texas.

Assistant to Director:
C.P. Mauney, Ph.D. Tennessee.

The mission of the Transportation Center is to encourage and facilitate interdisciplinary research in all phases of transportation, to provide public service of a transportation-related nature, to manage the research program for the Tennessee State Department of Transportation, and to manage highway safety research for the Governor’s Highway Safety Program.

The Center does research in all modes of transportation, including mass transit, highways, water, rail and air. The impact of the movement of people and goods on the environment and the technical aspects of transportation problems are concerns of the Center.

The Center is operated by UT, Knoxville through the Office for Graduate Studies and Research.

Graduate School of Biomedical Sciences (193)

Daniel Bilien, Director

Full-Time Faculty

Professors:
D. Bilien (Director), Ph.D. Tennessee; D.E. Olins, Ph.D. Rockefeller.

Associate Professors:
F.H. Gaertner, Ph.D. Purdue; F.D. Hamilton, Ph.D. Pittsburgh.

Assistant Professor:
N.W. Reves, 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 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 as an 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 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, biophysics, carcinogenesis, cell biology, genetics, and physiology. Included are such subjects as microbiology, immunology, protein and enzyme chemistry, nucleic acid chemistry, cytology, radiation biology, virology, developmental biology, plant physiology and photosynthesis, experimental pathology, microbial and mammalian genetics, mutagenesis, 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)
5160 Genetics (5)
5170 Molecular Genetics (3)
5180 Cell Biology I (3)
5190 Cell Biology II (3)
5200 Mammalian Physiology (4)
5230 Biochemical Concepts in Medical Science (3)
5310-20-30-40 Biomedical Sciences Laboratory (3, 3, 3, 3)
5350 Biomedical Sciences Seminar (1)
5360 Biomedical Sciences Seminar (1)
5370 Biomedical Sciences Seminar (1)
5430-60-90 Graduate Research Participation (3, 6, 9)
5510-20-30-40 Special Topics in Biomedical Sciences (3, 3, 3, 3)
5700 Developmental Biology (3)
5740 Statistics for Biologists (3)
5750 Experimental Design in Biomedical Research (3)
5830 Physical Biochemistry (3)
5840 Bioorganic Reaction Mechanism (3)
5860 Cyrobiology (3)
5920 Mammalian Genetics (3)
5940 Classic Experiments in Genetics (3)
6000 Doctoral Research and Dissertation
6110 Seminar in Plant Physiology (1)
6120 Seminar in Cellular and Developmental Biology (1)
6130 Seminar in Genetics (1)
6140 Seminar in Mammalian Research (1)
6150 Seminar in Immunology (1)
6160 Seminar in Biophysics (1)
6170 Seminar in Biochemistry(2)
6180 Advanced Seminar in Biomedical Sciences (1-3)
6190 Seminar in Animal Virology (1)
6200 Nucleic Acid Chemistry (3)
6210 Protein Chemistry and Enzyme Mechanisms (3)
6220 Enzyme Regulation and Kinetics (3)
6240 Chemistry and Metabolism of Lipids (3)
6250 DNA, RNA and Protein Synthesis (3)
6260 Advances in Animal Virus Research (3)
6270 Viral Carcinogenesis (3)
6280 Chemical and Physical Carcinogenesis (3)
6290 Cancer Biology and Biochemistry (3)
6300 Mutagenesis (3)
6510-20-30-40 Advanced Topics In Biomedical Sciences (3, 3, 3, 3)

Graduate School of Library and Information Science (620)
Gary R. Purcell, Director

Professors:
E.E. Maudin, M.S., L.S. Illinois;
G.R. Purcell (Director), Ph.D. Case Western Reserve.

Associate Professor:

Assistant Professors:
J.J. Knight, Ph.D. Texas; W.C. Robinson, Ph.D. Illinois; G.M. Sinkanka, Ph.D. Pittsburgh; P. Wilson, Ph.D. Michigan.

The Graduate School of Library and Information Science provides a library education program at both the graduate and undergraduate levels, leading to the preparation of librarians for work in all types of libraries. The program is to help meet the library manpower needs of the State of Tennessee. The programs of study of this School include a graduate curriculum leading to the degree of Master of Science in Library Science and an undergraduate program which allows for a minor in either the College of Education or the College of Liberal Arts.

The Undergraduate Program
The undergraduate library education program leads to a minor in the College of Education or the College of Liberal Arts. 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 in 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 satisfying 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 as well as other disciplines represented in the University community. For further information write for 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 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 planning for quarters and materials; evaluation. (Same as Educ. C & I 4150.)

4270 Organization of Library Collections (3) Acquisitions, cataloging and maintenance of library collections.

4330 Introduction to Reference Materials (3) Basic information sources and services for all libraries.
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 opportunities of the individual; to better the chances for a decent job and a decent home in a community of which to be proud. Planning does not accept our present urban and rural environments 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 12 credit hours, including a nine-credit credit. 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 system, 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
5002 Non-Thesis Graduation Completion (3)
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
Betty J. Cleckley, Assistant Dean
David P. Fauri
Branch Director, Nashville
Roger M. Nooe
Branch Director, Knoxville
Mary K. Mullins
Branch Director, Memphis

Professors:
P. P. Granger (Dean), Ph.D. Brandeis; M.H. Bloch, M.S., Ohio State; R.C. Bonovich, D.S.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:
L. M. Beselely, D.S.W., Denver; B.J. Cleckley, Ph.D. Brandeis; C.T. Cruthirds, B.S.W., Tulane; D.P. Fauri, D.P.A., Syracuse; L.H. Gangaware, M.S., Columbia; D.L. Ingle, M.S., Certificate in Psychiatric Social Work, Western Reserve; R.A. Loeman, A.M., Minnesota; E.K. Marshall, Ph.D., South Carolina; G. D. Stubbs, M.S.W., Tennessee; M.K. Mullins, Ph.D., Chicago; R.M. Noee, D.S.W., Tulane; J.D. Orent, M.S.W., Tennessee; E.J. Pavlik, M.S.W., Wayne State; R.B. Rowen, Ph.D., Arizona; R.W. Sellards, M.S.W., Michigan; P.F. Whitmore, M.S.W., Tennessee; P.G. Zarbock, M.S.W., Wisconsin.

Assistant Professors:
W. J. Bell, M.S.W., Michigan; A.R. Ford, M.S.W., Atlanta; R.K. Hampton, M.S.W., Pennsylvania; A.E. Moses, M.S.W., California; N.J. Taylor, M.S.W., Smith College; S.A. Webster, M.A., Wisconsin; H.A. Wilson, M.S.S.A., Western Reserve University

On leave

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, 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 the Vice Chancellor for Graduate Studies, University of Tennessee, Knoxville, Tennessee 37916.

Courses
5000 Thesis
5002 Non-Thesis Graduation Completion (3)
5070 Social Work Research I (3)
5080 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 (2-3)
5311 Imaginative Perspectives on the Human Condition (2-3)
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 Treatment with Individuals and Families (3)
5470 Contemporary Treatment Modalities: Individual and Family (2-3)
5560 Social Work Treatment 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)
5681 Community Organization (2-3)
5670 Social Planning (3)
5671 Planning and Management of Change in Social Welfare (2-3)
5701 Administration in Social Work (2-3)
5702 Organizational Design of Social Welfare Agencies (2-3)
5741 Supervision in Social Work (2-3)
5742 Consultation in Social Work (2-3)
5743 Management of Human Resources in Social Welfare (2-3)
5744 Education and Training in Social Welfare (2-3)
graduation if a full-time student or (2) current participation 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 5500, at least three courses chosen from INDUSTRIAL ENGINEERING 4150, 5110, 5520, and 5710, 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, Finance 5050, Marketing 5050, Industrial Management 5130 and 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 student's background and the electives chosen.

COURSES

5002 Non-Thesis Graduation Completion (3)
5900 Project in Engineering Administration (3)

Space Institute

Charles H. Weaver, Dean
Robert L. Young, Associate Dean
Arthur A. Mason, Assistant Dean

Aviation Systems (169)

Professors:
G.W. Braun (Emeritus), Ph.D. Goettingen; L.W. Crawford, Ph.D. Cincinnati; J.B. Dicks, J r., Ph.D. Vanderbilt; F.W. Donaldson, Ph.D. Texas; W. Frost, Ph.D. Washington; B.H. Goertert (Emeritus), Ph.D. Technical University of Berlin; K.E. Harwell, Ph.D. California Institute of Technology; E.C. Huebschmann, Ph.D. Texas; W.F. Jacobs, Ph.D. Goettingen; A.A. Mason, Ph.D. Tennessee; M.K. Newmeyer (Emeritus), Ph.D. Columbia; K.C. Reddy, Ph.D. Indian Institute of Technology (India); F. Shahrokh, Ph.D. Oklahoma; K. Templetey, Ph.D. Tennessee; C.H. Weaver (Dean, Space Institute; Vice President for Continuing Education), Ph.D. Wisconsin, Ph.D. Wright, Ph.D. Wales; J.M. Wu, Ph.D. California Institute of Technology; Y.C.L. Wu, Ph.D. California Institute of Technology; R.L. Young, Ph.D. Northwestern.

*Alumni Distinguished Service Professor

Associate Professor:
S.N. Chaudhuri, Ph.D. Indian Institute of Science, F.G. Collins, Ph.D. California (Berkeley); J.R. Connell, Ph.D. Colorado State; W.A. Durnil, Ph.D. Stanford; Ph.D. Missouri; K.R. Kimble, Ph.D. Ohio State; J.R. Maus, Ph.D. North Carolina State.

Assistant Professors:
B. Antar, Ph.D. Texas; J. Bitte, Ph.D. Tennessee; H.W. Crater, Ph.D. Yale; T. Feagin, Ph.D. Texas; R.D. Joseph, Ph.D. Case Institute of Technology; R.H. Kehl, Ph.D. Tennessee; N.L. Loeffer, M.S. Purdue; T.H. Moulden, Ph.D. Tennessee; T.C. Powell, Ph.D. Kentucky; V.K. Smith, III, Ph.D. Georgia Institute of Technology; J. Thomason, Ph.D. Tennessee.

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-deployment 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)
5700 Special Topics in Aviation Systems (3)

Cybernetics and Bionics (272)

Professor:
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)
5590 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 letter 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 studies.
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 and 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)
The 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 been 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

Dorsey M. Gossett, Dean
Thomas J. Whatley, Associate 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 is 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-phosphatase 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 Greeneville 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 960 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 results apply generally on the Highland Rim.

Milan Field Station in West Tennessee consists of 497 acres. Research emphasis is mechanization of the 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 county 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 computer programs to 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 are 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, forestry, and wildlife and fisheries science are offered in the College of Agriculture. The college provides curricula leading to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Agricultural Engineering, Bachelor of Science in Forestry, Bachelor of Science in Wildlife and Fisheries Science.

The professional degree program in agricultural engineering receiving strong support from the College of Engineering is fully accredited by the Engineering 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 pursuing programs leading to the degree of Bachelor of Science in Agriculture major in one of several specialized areas of agriculture offered in the college. These 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 complete the curriculum outlined by the department in which the student is majoring in order to receive a degree. In all areas of specialization, particular emphasis is placed upon the sciences as a background for agricultural instruction; other courses are included to provide a liberal education. In all subject matter departments, there is the opportunity to select elective courses appropriate to the educational objectives of individual students. The choice of electives in each curriculum should be made with the guidance of the faculty adviser.

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

Students may include 6 hours of lower division military science and 9 hours of advanced 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 appropriate to 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 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, and approved by the major adviser, must be completed in residence to fulfill the requirements of baccalaureate degrees offered in the college.

**Satisfactory/No Credit Courses**

Students may include a maximum of 30 hours in non-directed electives taken on a satisfactory/no credit basis in the total hours required for graduation.

**Graduate Study In Agriculture**

**MASTER OF SCIENCE PROGRAMS**

Programs of graduate study leading to the Master of Science degree are offered in all departments in the College of Agriculture. 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 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. Buildings which have been erected recently provide facilities comparable to the best in the country for the departments which they serve.

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 laboratory facilities for instructional programs offered in the College. Cherokee woodlot (120 acres), the Oak Ridge Forest (2,260 acres), and Ames Plantation (8,000 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. Courses in the basic sciences, business, communications, engineering, etc., are open to agricultural students and are taught on the main University campus.

Selection of Curriculum

Agricultural students who have determined their area of special interest may choose the curriculum most adaptable to their needs when they register as freshmen, and an adviser from the department will be assigned for their counseling. It is not necessary for all freshman students to select their curriculum until the end of the first year. Those who are in doubt will be assigned a special advisor to assist them in exploring the opportunities in the several fields of agriculture and in guiding 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 electives. A foundation for advanced work leading to a 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. Registration 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 course should be consulted, the Dean at the College, and the adviser should be informed, and each adviser 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 with 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>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 1110, Introduction to Social Sciences</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Agriculture 1130, Agricultural Engineering</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Agriculture 1140, Plant Science for Agriculture</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Agriculture 1150, Food Technology and Animal Science for Agriculture</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Agricultural Science. (courses listed in department curricula)</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>English and Communications. (English 1510-20, Speech 2311, and elective 6 hours—literature or communications)</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Mathematics 1540-50-60. (general mathematics)</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Biological Science. (biology, botany, microbiology, zoology)</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Physical Science. (Chemistry 1110-20-23-25, physics or geology)</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Social Science and Humanities. (Economics 2110-20 and electives, 12 hours—not more than 3 areas)</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Other Courses or Elective Hours Specified by Departments</td>
<td>76</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>198</td>
<td></td>
</tr>
</tbody>
</table>

*O equivalent honors course.

*The Mathematics 1540-50-60 sequence may be necessary in some courses of study.

**Exception—See Agricultural Business and Agricultural Economics.

**Exception—See Agricultural Education.

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. These courses 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 prepare freshman agricultural students an appropriate concept of modern agriculture, its role in our economic and social structure, the unity among its several branches, 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 Southard

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 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 these disciplines which deal with the natural hazards that are the major causes of losses in agricultural production. The training gives such a graduate 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 Professor Brooker, Mundy, Snell, and Tevena.

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 phases of agricultural business. Course offerings in the College of Business Administration have been used freely in this curriculum.

Preparation is given for such work in crop production, livestock and poultry marketing, fertilizers and feed sales, cooperative business management, agricultural credit agencies, farm real estate and appraisal services, agricultural representatives with banks, public and private market analysts, agricultural journalism, and other services utilizing mass communications.