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University Calendar for 1996-97

Summer Term 1996

May 30 (Thursday)  Classes Begin
July 3 (Wednesday)  First Session Ends
July 4 (Thursday)  Independence Day
July 5 (Friday)  Second Session Begins
August 7 (Wednesday)  Second Session Ends
August 9 (Friday)  Commencement

Fall Semester 1996

August 21 (Wednesday)  Classes Begin
September 2 (Monday)  Labor Day
October 17-18 (Thursday-Friday)  Fall Break
November 28-29 (Thursday-Friday)  Thanksgiving
December 5 (Thursday)  Classes End
December 6 (Friday)  Study Period
December 7, 9-12 (Saturday, Monday-Thursday)  Final Exams
December 15 (Sunday)  Commencement

Spring Semester 1997

January 15 (Wednesday)  Classes Begin
January 20 (Monday)  Martin Luther King Day
March 24-28 (Monday-Friday)  Spring Break
March 28 (Friday)  Spring Recess
May 5 (Monday)  Classes End
May 6-7 (Tuesday-Wednesday)  Study Period
May 8-10, 12-13 (Thursday-Saturday, Monday-Tuesday)  Final Exams
May 16 (Friday)  Commencement

Summer Term 1997

June 5 (Thursday)  Classes Begin
July 4 (Friday)  Independence Day
July 9 (Wednesday)  First Session Ends
July 10 (Thursday)  Second Session Begins
August 13 (Wednesday)  Second Session Ends
August 15 (Friday)  Commencement

NOTE: Deadlines for degree requirements at end of section on Degree Program Requirements.
The University Administration

### Board of Trustees

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<td>Governor, State of Tennessee</td>
<td>Joe Fuller, Kingsport</td>
<td>First</td>
<td>June 1, 1999</td>
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<tr>
<td>Commissioner of Education</td>
<td>William B. Sansom, Knoxville</td>
<td>Second</td>
<td>June 1, 2001</td>
</tr>
<tr>
<td>Commissioner of Agriculture</td>
<td>Roger Dickson, Chattanooga</td>
<td>Third</td>
<td>June 1, 2000</td>
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<tr>
<td>President of the University of Tennessee</td>
<td>William M. Johnson, Sparta</td>
<td>Fourth</td>
<td>June 1, 1996</td>
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<td>Executive Director, Tennessee Higher Education Commission</td>
<td>Roy C. Flowers, Nashville</td>
<td>Fifth</td>
<td>June 1, 1997</td>
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<td></td>
<td>Carl Johnson, Brentwood</td>
<td>Sixth</td>
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<td></td>
<td>Amon Carter Evans, Columbia</td>
<td>Seventh</td>
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<td></td>
<td>Tom Elam, Union City</td>
<td>Eighth</td>
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<td></td>
<td>J. Houston Gordon, Esq., Covington</td>
<td>Eighth</td>
<td>June 1, 1996</td>
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<tr>
<td></td>
<td>Johnnie D. Arnette, Memphis</td>
<td>Ninth</td>
<td>June 1, 2001</td>
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### From Anderson, Bedford, Coffee, Franklin, Lincoln, Moore, and Warren Counties

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### From Davidson County

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<td>June 1, 1999</td>
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### From Hamilton County

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### From Knox County

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<td>Susan Richardson-Williams</td>
<td>June 1, 2001</td>
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<td>James A. Haslam, II</td>
<td>June 1, 2001</td>
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### From Shelby County

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<td>King W. Rogers, III, Esq.</td>
<td>June 1, 1996</td>
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<tr>
<td>Edward W. Reed</td>
<td>June 1, 1996</td>
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### University of Tennessee Administration

Joseph E. Johnson, B.S., M.A., Ed.D., President, The University of Tennessee
Billy Stair, B.A., M.A., Executive Assistant to the President
Emmery H. Flavell, B.S., CPA, Executive Vice President and Vice President for Business and Finance
Homer S. Fisher, B.S., M.B.A., Senior Vice President
Charles F. Brakebill, B.S., Vice President for Development
D.M. (Pete) Gossett, B.S., M.S., Ph.D., Vice President for Agriculture
T. Dwayne McCay, B.S., M.S., Ph.D., Vice President of the UT Space Institute
William R. Rice, A.B., J.D., Chancellor and Vice President for Health Affairs
Stamile Lynn Martin, B.S., M.S., APP, Vice President for Public Service, Continuing Education, and University Relations
Beauchamp E. Brogan, B.S., J.L.B., J.D., General Counsel
Charles M. Peccolo, Jr., B.S., M.Acc., CPA, CCM, Treasurer

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Raymond L. Hamilton, B.S., M.Acc, CPA, Vice Chancellor for Business and Finance
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Laverna B. Lindsey, B.S., M.Ed., Ed.D., Associate Vice Chancellor and Dean of Continuing Studies and Distance Education
Susie C. Archer, B.S., M.A., Dean of Admissions (Undergraduate) and Records
Raymond A. Popp, B.S., M.A., Ph.D., Director of the UT-Oak Ridge Graduate School of Biomedical Sciences
Jose-Marie Griffiths, B.Sc., Ph.D., Director of the School of Information Sciences
Paula T. Kaufman, A.B., M.S., MBA, Dean of Libraries

### From Weakley County

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<td>Nancy Overton</td>
<td>June 1, 1996</td>
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### Officers of the Board

Governor Don Sundquist, Chairman
J. Steven Ennis, Vice Chairman
Beauchamp E. Brogan, Secretary
Linda Logan, Assistant Secretary
The Graduate School Administration

C.W. Minkel, B.A., M.A., Ph.D., Associate Vice Chancellor and Dean of The Graduate School
Linda R. Painter, B.S., M.S., Ph.D., Associate Dean of The Graduate School
Michael Singletary, B.A., M.A., Ph.D., Associate Dean of The Graduate School
S. Kay Reed, B.S., M.S., M.A., Ph.D., Assistant to the Dean
Ann L. Lacava, Thesis/Dissertation Consultant

Diana C. Lopez, B.S., M.S., Director, Graduate Admissions and Records
Brenda Reymon, B.A., M.A., Assistant Director, Graduate Admissions and Records
Rose Ann Tranham, Assistant Director, Graduate Admissions and Records

Ms. Paula Kaufman, Dean of Libraries
Dr. Jim Moran, College of Human Ecology
Dr. Linda Painter, The Graduate School
Dr. David Patterson, College of Architecture and Planning
Dr. Donald R. Pitts, College of Engineering
Dr. Ray Popp, Graduate School of Biomedical Sciences
Dr. Leona Potgieter, College of Veterinary Medicine
Dr. K. C. Reddy, UT Space Institute
Dr. Gary Schneider, College of Agricultural Sciences and Natural Resources
Dr. Michael Singletary, The Graduate School

The Graduate Council (Membership August 1, 1995)

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College or Unit | Elected Members | Expiration | Proxy
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 | Dr. Jack Weitsman | July 31, 1998 | 

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 | Ms. Anita Teague | April 30, 1996 | 
 | Mr. Brian Copeland | April 30, 1996 | 

Human Ecology | Dr. Dileep Sachan | July 31, 1996 | Dr. Nancy Canestaro
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 | Dr. Jay Whelan | July 31, 1998 | Dr. Delores Smith

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 | Dr. Tom Cuthberts | July 31, 1998 | Dr. David Patterson

UT Space Institute | Dr. Ching F. Lo | July 31, 1997 | Dr. U. Peter Sciesz
 | Dr. Frank G. Collins | July 31, 1998 | Dr. Kenneth Kimble

Veterinary Medicine | Dr. Phil Bochsler | July 31, 1997 | Dr. Donita Frazier
GRADUATE STUDY
Rules, policies, fees, and courses described in this catalog are subject to change without notice. Refer to Inside front cover.
The University of Tennessee is the official land-grant institution for the State of Tennessee, with its main campus in Knoxville. UT Knoxville is the state’s oldest, largest, and most comprehensive institution, and is the only state-supported “Research University I” (Carnegie classification) in Tennessee. A wide range of graduate programs leading to master’s and doctoral degrees is available. The University offers master’s programs in 85 fields and doctoral work in 52. More than 7,500 graduate and professional students are enrolled on and off campus under the tutelage of 1,600 faculty members.

The Graduate School brings together faculty and graduate students as a community of scholars with a common interest in creative work and advanced study. Programs are available to individuals desiring work toward the master’s and doctoral degrees or professional certification, those interested in continuing education for updating and broadening their knowledge, and those pursuing postdoctoral research. Traditionally, universities have provided graduate programs primarily for full-time, degree-oriented students. Serving the needs of students engaged full-time in intensive study and pursuit of a degree continues to be a major emphasis of UTK’s graduate effort. At the same time, the University employs a variety of modes, traditional and non-traditional, in offering quality programs designed to serve a diverse student clientele.

The Graduate School includes the Graduate Council; the Graduate School administrative organization, composed of the Graduate Office, the Office of Graduate Admissions and Records, administrators of the various graduate programs, and the faculty; and the graduate student body.

The Graduate Council is composed of elected faculty representatives from each college, the Space Institute, and the Graduate Student Association. Ex-officio members include the Dean and Associate Deans of The Graduate School, the Chair of the Research Council, the Dean of Libraries, the Dean of Continuing Education, and the administrative officer having primary responsibility for the graduate curriculum in each college or school.

The Graduate Council is responsible for standards of admission, retention and graduation, and for curricular matters in graduate programs; the development of interdisciplinary programs; the approval of new graduate programs; the approval of individuals to direct doctoral dissertation research; financial support of graduate students; and any other matters of educational policy pertaining to graduate programs. Standing committees include academic policy, appeals, credentials, curriculum, and the Graduate Deans Group.

The Graduate School administration develops procedures to implement policies formulated by the Council, and has primary responsibility for Graduate School admissions and records. Much of the day-to-day administration of graduate study is conducted by department heads or faculty advisors and committees responsible for particular programs. In addition to departmental units, numerous interdisciplinary programs, institutes and centers have been developed on campus and in locations throughout the state.

The graduate student body is composed of those persons admitted to graduate study by The Graduate School, upon recommendation of the academic unit, and currently enrolled in The Graduate School.

Graduate education has been conducted at The University of Tennessee since 1821. The first known master’s degree was awarded in 1827. In 1879 the Board of Trustees created a graduate department with authority to confer the Master of Arts, the Doctor of Philosophy, Civil Engineer, and Mining Engineer degrees. The Graduate Department was renamed The Graduate School in 1912. Although a Ph.D. degree was awarded in 1886 and in 1887, formal doctoral programs were not instituted until 1929 for Biological Sciences at Memphis and 1943 for Chemistry on the Knoxville campus. A Committee on Graduate Study was appointed in 1904 and coordinated the graduate programs until the Graduate Council was formed in 1949. More than 7,600 doctoral degrees and 44,000 master’s degrees have been awarded to date.

Seven deans have led The Graduate School since 1936: Fred C. Smith, Eugene A. Waters, Dale K. Wantling, Hilton A. Smith, Jack E. Reese, Margaret N. Perry, and C.W. Minkel. They have strived to maintain the rich heritage and the highest quality of graduate programs at UTK.
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*Non-degree students must obtain permission from the department/program head to register for courses in these fields.

*Available for the Academic Common Market to residents of reciprocal states. See Fields of Instruction.
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<td>Metallurgical Engineering</td>
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<td>College of Human Ecology</td>
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<td>Child &amp; Family Studies</td>
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<td>Foodservice and Lodging Administration</td>
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<td>Health Education</td>
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<td>Health Promotion and Health Education</td>
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<td>Human Ecology</td>
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<td>Human Resource Development</td>
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<td>Interior Design</td>
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<td>Nutrition</td>
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<td>Recreation &amp; Leisure Studies</td>
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<td>Safety Education &amp; Service</td>
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<td>Textiles, Retailing and Consumer Sciences</td>
<td>MS</td>
<td>X</td>
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<td>Vocational-Technical Education</td>
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<td>Law</td>
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<td>College of Nursing</td>
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<td>Social Work</td>
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<td>Veterinary Medicine</td>
<td>D.V.M.</td>
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<td>School of Biomedical Science</td>
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<td>Biomedical Sciences</td>
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<td>Aviation Systems (only at UTSI)</td>
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<td>Comparative &amp; Experimental Medicine</td>
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<td>Industrial &amp; Organizational Psychology</td>
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Admission Requirements

Admission to The Graduate School requires a Bachelor's degree with a satisfactory grade-point average from a college or university accredited by the appropriate regional accrediting agency or foreign equivalent. Admission to The Graduate School does not ensure acceptance into a specific degree program nor admission to candidacy for the degree desired.

The Graduate School requires a minimum grade-point average of 2.7 out of a possible 4.0, or a 3.0 during the senior year of undergraduate study. Applicants with previous graduate work must have a grade-point average of 3.0 on a 4-point scale or equivalent on all graduate work. Many programs require a higher average. Applicants with work experience or who are entering graduate school after a number of years away from an educational institution, usually 5 years, will be given consideration with greater flexibility relative to GPA. An international student graduating from a U.S. institution must meet the same requirements as those for domestic students.

An applicant whose GPA falls between 2.5 and 2.7 may be admitted on probation, upon request and recommendation of the academic unit. The probationary status will be removed after completion of nine or more hours of graduate credit with a minimum GPA of 3.0. Failure to maintain a 3.0 while in this status will result in dismissal from The Graduate School. An international student may not be admitted on probation.

When a student is admitted to The Graduate School prior to having received the baccalaureate degree, that degree must be awarded before the date of first registration in The Graduate School.

The Office of Graduate Admissions and Records must be notified of any change in the entering date after admission has been granted. Individual departments and colleges may have further restrictions on admission dates. For this information, students should contact the department they wish to enter. If a student does not enroll within one year after the requested admission, the application process must be repeated.

Enrollment in The Graduate School is a privilege which may be withdrawn by the University or any area of graduate study if it is deemed necessary by the Dean of The Graduate School to safeguard the University's standards.

Application Procedures

Anyone with a Bachelor's degree from a regionally accredited institution or foreign equivalent who wishes to take courses for graduate credit, whether or not the person desires to become a candidate for a degree, must make formal application for admission to The Graduate School or apply for transient status. No action is taken until a file is complete. The applicant will be notified by mail of the action taken.

To apply for admission, the following materials must be sent to The Graduate School:

1. The completed Graduate Application for Admission (inside front cover of Graduate Catalog).
2. A $15 non-refundable application fee.
3. One official transcript from all colleges and universities attended.
4. Additional departmental/program requirements (refer to Majors and Degree Programs chart in front of Graduate Catalog).
   a. Reference letters or rating forms. All program forms should be sent to the college or department.
   b. Scores from the Graduate Record Examination (GRE) or Graduate Management Admission Test (GMAT).
   c. Scores from Test of English as a Foreign Language (TOEFL) if native language is not English (refer to section on English Proficiency).
   d. Application forms for the above tests can be obtained by writing: Educational Testing Service Princeton, NJ 08450
   UT Knoxville is an approved testing center for all examinations. Examination results reach the University in approximately six weeks.
   All of the above documents become the property of the University and will not be returned.

Therefore student application procedures, see also Admission of International Students.

Admission Classifications

To earn graduate credit, a student must be admitted by the Dean of The Graduate School and enrolled in one of the categories listed below: See Registration and Enrollment Requirements for provisions concerning graduate credit and for special privileges for UT Knoxville seniors and professional students. International students should also refer to the section on Admission of International Students.

DEGREE ADMISSION

Admission to a degree program requires that a person meet the minimum requirements of The Graduate School and additional program requirements (see Admission Requirements). Refer to the appropriate field of instruction for specific requirements for admission to the degree program.

In addition to meeting the minimum requirements for admission to The Graduate School, applicants at the doctoral level must have demonstrated a potential for superior academic performance. To be considered are such criteria as performance in prior undergraduate and/or graduate studies, achievement on admission tests for graduate studies, letters of recommendation from professors familiar with the applicant's capabilities, and other evidence of scholarly achievement.

A student must maintain a 3.0 grade-point average to continue enrollment in a degree program (see Academic Standards). An applicant may not be admitted simultaneously to more than one degree program. Two or more applications cannot be considered concurrently. For admission to dual programs, applications are processed consecutively.

NON-DEGREE ADMISSION

Applicants may apply for non-degree status who, for example:

1. need additional time to fulfill application requirements for a degree program.
2. do not wish to pursue a degree program.

Admission to the non-degree status requires that a person meet the minimum requirements of The Graduate School (see Admission Requirements).

A major area must be declared if the intent is to seek an advanced degree. If no degree is desired, a major area need not be declared, but some departments do not permit non-degree students to register for graduate courses (see Majors and Degree Programs chart for information on restricted programs).

There is no specific limit on the number of courses that a student may take in non-degree status. However, before accumulating 15 hours of graduate coursework in this status, the student must either:

1. apply to be admitted to a specific degree program (see Revision of Admission Classification for procedures); or
2. file a Plan of Study form with the Office of Graduate Admissions and Records for approval to continue taking courses in non-degree status. The plan of study must include a stated educational objective and a list of courses proposed to achieve that objective.

A maximum of 15 graduate hours taken before acceptance into a degree program may be applied toward a graduate degree, if approved by the student's committee. Courses applied toward any graduate degree must fall within the time limit specified for the degree.

Every graduate student must meet with an academic advisor at least once each semester to discuss his/her program. For non-degree students with a declared major, the advisor must be from the appropriate academic unit. If no advisor has been assigned, the department head or designee is the advisor. For a non-degree student who has no declared major, the Associate Dean of The Graduate School, or designee, is the advisor.

A student must maintain a 3.0 grade-point average to continue enrollment in non-degree status (see Academic Standards). Admission to non-degree status does not assure admission to a degree program. The student who seeks to enter a degree program will be directed to the appropriate department. An international student on a non-immigrant visa may not enroll in the non-degree status.

TRANSIENT ADMISSION

A student who is enrolled in good standing in a graduate degree program at another institution and who wishes to take courses for transfer to that institution may be admitted after submitting a completed Graduate Application for Admission, the $15 application fee, and a Transcript Student Certification 10 days prior to registration. Only one semester or a maximum of 12 hours, of coursework can be taken in transient status. Necessary forms may be obtained from the Office of Graduate Admissions and Records.
Admission of International Students

The Graduate School accepts only students who have superior records. An international student must have an equivalent 4-year Bachelor's degree with at least a B+ on all previous coursework and a B+ on all previous graduate work. On various grading scales, this corresponds to:

a. 14 on a 20-point scale.

b. 80.0 from Taiwanese institutions.

c. 1st Class or Division from Indian institutions.

d. Upper 2nd Class Honors on various British systems.

If graduating from a U.S. institution, the minimum is the same as that for domestic students (see Admission Requirements). Other grading systems are evaluated upon receipt of transcripts, in accordance with standard recommendations. Many departments require a higher average than the minimum established by The Graduate School.

An international student may apply for admission any semester, but normally enters the summer or fall semester. Deadlines for submission of applications are:

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<th>Semester</th>
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<tr>
<td>Fall</td>
<td>1 March</td>
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<td>Spring</td>
<td>15 July</td>
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<td>Summer</td>
<td>15 November</td>
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The Office of Graduate Admissions and Records must be notified of any change in entering date after admission has been granted.

The following items must be received before admission will be considered:

1. A completed application form accompanied by a $15 non-refundable processing fee. Payment should be made in United States dollars by a cashier's check, money order, or personal check. If payment is by personal check, the check must be drawn on a United States bank to be honored in United States currency. Checks drawn on overseas banks are not accepted. International money orders are suggested.

2. Official or attested university records, with certified translations if the records are not in English (Notarized copies are not accepted).

3. Certification of English proficiency. Refer to section on English Certification.

4. Documented evidence of financial resources sufficient to support the student, as stated on the financial statement form supplied to the applicant.

5. Additional departmental/program requirements (refer to Majors and Degree Programs chart in front of Graduate Catalog)

a. Reference letters or rating forms. All program forms should be sent to the college or department.

b. Scores from the Graduate Record Examination (GRE) or Graduate Management Admission Test (GMAT).

Admission must be granted, and financial documentation and degree confirmation must be received, prior to issuance of an I-20 or IAP-66 form needed to obtain a visa. The Graduate School will not issue these forms after the following dates:

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<th>Semester</th>
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<td>Fall</td>
<td>15 June</td>
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<td>Spring</td>
<td>1 November</td>
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<tr>
<td>Summer</td>
<td>15 March</td>
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</table>

The University will not enroll any student who has not been approved initially, or for transfer, by the Immigration and Naturalization Service (INS) to attend UT Knoxville.

An international student may not enroll as a non-degree student nor on probation.

English Certification

Any person whose native language is not English must submit results of the Test of English as a Foreign Language (TOEFL). A minimum score of 550 is required for admission consideration. Some departments require higher scores. The score must be no more than two years old. Applicants who have received a degree from an accredited U.S. institution within the past two years are exempt from the TOEFL requirement.

All students whose native language is not English must take an English proficiency examination after arrival at UTK. Refer to section on English Proficiency.

Admission of Faculty and Staff Members

If admissible to The Graduate School, members of the faculty or staff located in Knoxville may take courses as graduate students.

Faculty members of UT Knoxville or the Institute of Agriculture at the rank of assistant professor or above, and members of the administrative staff at UT Knoxville, the UT Central Administration, and the Institute of Agriculture will not normally be admitted to an Ed.D. or Ph.D. degree program at UT Knoxville. Exceptions may be granted upon an individual basis upon petition to The Graduate School.

Petitioners must present their request in writing, providing adequate assurance that the residence requirement will be met and that there will be no conflict of academic or administrative interest. Written endorsements must be provided by the respective deans and department heads of the units in which members are employed and in which the doctoral degrees are to be pursued. Requests should be directed to the Associate Vice Chancellor and Dean of The Graduate School.

Readmission

A student who has not attended The Graduate School at UT Knoxville for more than three semesters (including summer) must apply for readmission. A readmission application should be submitted to the Office of Graduate Admissions and Records at least two weeks prior to the desired reentry date. A student who has attended another institution since enrollment at UT Knoxville must submit one official transcript showing all coursework and any degrees earned at that institution. The student will be notified when action has been taken by the department/program and The Graduate School.

A student who is permitted to enroll and is subsequently denied readmission will receive credit for courses completed successfully.

Future registration will not be allowed until readmission is granted.

Revision of Admission Classification

A student who wishes to change a major program of study must complete a Request for Change of Graduate Program form, which can be obtained from the Office of Graduate Admissions and Records. The form requires the signature of the head of the department in which admission was previously granted. No signature is needed if a student requests to change from non-degree status to a degree program, or from one degree to another within the same department.

The student must be in good standing in The Graduate School for a revision to be processed. Acceptance into a new degree program is contingent upon review and recommendation by that department. If the student is not accepted into the program requested, he/she remains in the former program. The results of each request for program change are communicated to the student by mail.

Registration and Enrollment Requirements

Graduate Credit

To earn graduate credit, a student must be admitted by the Dean of The Graduate School and enrolled in an appropriate status as a graduate student. The registration must reflect the desire for graduate credit, and the course must have been approved by the Graduate Council. Coursework taken in any other status is unacceptable for graduate credit and cannot be changed retroactively to graduate credit. Special privileges are accorded UT Knoxville seniors and professional students, as stated in the section on Undergraduates and Professional Students.

Courses numbered at the 500-level, as well as those 400-level courses approved for graduate credit, must be taught by faculty members who (1) meet the criteria of an assistant professor or above as defined in the Faculty Handbook and (2) have been designated by the department head as being appropriate. Graduate teaching associates are ineligible to teach courses approved for graduate credit.

Courses at the 600-level are taught by faculty who have been approved by the Associate Vice Chancellor and Dean of The Graduate School to do so. Criteria for eligibility to teach at the 600-level are available from The Graduate School.

Undergraduate and Professional Students

UT KNOXVILLE SENIORS

Subject to approval by The Graduate School, a senior at UT Knoxville who needs fewer than 30 semester hours to complete requirements for
a Bachelor's degree and has at least a B average (3.0) may enroll in graduate courses for graduate credit, provided the combined total of undergraduate and graduate coursework does not exceed 15 credit hours per semester. Approval must be obtained each semester at the Office of Graduate Admissions and Records during registration. A maximum of 15 hours of graduate credit can be obtained in this status. Some departments do not permit seniors to register for graduate courses without prior permission (see Majors and Degree Programs chart for information on restricted programs). Courses taken for graduate credit may not be used toward both the baccalaureate and a graduate degree.

UT KNOXVILLE VETERINARY MEDICINE STUDENTS

A student in good standing in the College of Veterinary Medicine may enroll in UT Knoxville graduate courses without being admitted to The Graduate School under the following conditions:
1. The student's advisor must approve in advance the student's enrollment in each course.
2. The student may take a maximum of 10 semester hours of graduate courses during the D.V.M. program.
3. Approval must be obtained each semester at registration through the Office of Graduate Admissions and Records. The student's progress is subject to review and approval each semester by the Associate Dean, College of Veterinary Medicine.
Courses taken for graduate credit may not be used toward both the D.V.M. degree and a graduate degree.

UT KNOXVILLE LAW STUDENTS

Subject to approval by The Graduate School and the College of Law, a law student at UT Knoxville may enroll in graduate courses for graduate credit. Approval must be obtained each semester at the Office of Graduate Admissions and Records during registration.
Courses taken for graduate credit may not be used toward both the J.D. degree and a graduate degree. Use of such courses toward the J.D. degree are subject to guidelines approved by the law faculty.

Law Courses

A graduate student may take up to 6 semester hours of law courses and apply them toward a graduate degree, upon approval of the College of Law and the student's major professor. The graduate student must register for law courses during the registration period at the College of Law and request an S/NC grade. If the student earns a 2.0 or better, an S will be recorded on the transcript. Below 2.0, an NC will be recorded, and the course cannot be used toward meeting degree requirements. Grades for law courses will not be reflected in the cumulative grade-point average, as law courses do not carry graduate credit.
Different rules apply to students enrolled in the Dual J.D.-MBA and J.D.-MPA programs. Grades must be earned according to the grading system of the respective colleges, e.g., numerical grades for law courses, letter grades for graduate courses. Refer to sections on Business Administration, Political Science, and Law under Fields of Instruction for grades acceptable to meet degree requirements.
A student enrolled in the Ph.D. in Business Administration program may use 8 semester hours or more of law courses for the supporting area via the arrangement described under Business Administration.

Senior or Disabled Citizens

Legislation gives Tennessee citizens who are 60 years of age or older, or those who are totally disabled, the opportunity to attend credit and non-credit courses at the University at no charge on an audit, space available basis. Legal verification of either of these conditions is required for enrollment. Students who are 65 or over, or who are totally disabled, and who desire to receive UT credit for their courses, may pay a reduced charge of $7 per credit hour up to a maximum of $75 for a full-time load. Registration for day and evening classes is handled by the Evening School, 451 Communications and University Extension Building, (423) 974-5361 or 1-800-678-8587.

Auditors and Audited Courses

Persons who wish to attend certain classes regularly, without taking examinations or receiving grades or credit, may do so by completing a graduate application, paying the application fee, registering as an auditor, and paying regular fees. Graduate students paying regular fees also are entitled to audit courses.
The names of all auditors properly registered will appear on the intermediate class rolls, but will be removed from the final grade report. No record of audited coursework will appear on the permanent record.
Persons may not attend classes without being properly admitted to the University and registered in the class.

Short Courses and Workshops

The University offers a wide variety of short courses and workshops for graduate credit. Minimum criteria acceptable for such credit are as follows:
1. The number of contact hours should not be fewer than the equivalent of one hour per week during the term for each hour of credit awarded, i.e., 15 hours per semester hour.
2. For each contact hour, there should be at least two hours of student preparation.
3. For each hour of graduate credit under the semester system, there should be a minimum elapsed time of one week.
The work load in a short course of several weeks’ duration need not be distributed evenly. However, substantial and meaningful interaction between the faculty member and student should be maintained throughout. Graduate credit should not be awarded for courses considered inappropriate as part of a graduate degree program.
The Curriculum Committee of the Graduate Council monitors the policy. Each new course or change in a current course must be approved in both content and format.

Correspondence Study

No graduate credit is accepted at UT Knoxville for work done by correspondence study at any university.

Proficiency Examinations

A proficiency examination may be given in academic courses offered for graduate credit. Applications for proficiency examinations are available in the Office of the Registrar, 209 Student Services Building. To be eligible, a student must be admitted to The Graduate School. The request for examination must be approved by the head of the department offering the course. A student applying for this privilege must present evidence to the department head that he/she has the knowledge and abilities expected of graduate students who have taken the same course. Upon passing the examination with a minimum grade of B, the student will receive graduate credit. A maximum of one-fourth of the total credit hours in a master's degree program may be earned by this method, subject to the approval of the student's graduate committee. A fee of $7 per credit hour must be paid before each examination. Proficiency examinations may not be used to raise the grade or change the credit in a course previously completed, nor may such an examination be repeated. Proficiency examinations taken at other institutions are not transferable.

English Proficiency

Any person whose native language is not English must pass an English proficiency examination given by the University prior to initial registration. Students whose performance on the examination indicates a need for additional English study must enroll immediately for English 121 English Grammar Review for Non-Native Speakers (or another course assigned by the English Department) for classroom duties in connection with their assistantships. The SPEAK Test is administered on campus by the Learning Research Center. Scores from the Test of Spoken English (TSE) may be accepted in place of the SPEAK Test.
Prerequisites

Graduate work in any program must be preceded by sufficient undergraduate work in the major and related areas to satisfy the department that the student can do graduate work successfully in the chosen field. Individual undergraduate records are examined and evaluated by the appropriate department before admission to a degree program is granted. Questions about program prerequisites should be addressed to the advisor.

Advisor/Major Professor

Every graduate student must have an advisor from the major department. This professor advises the student about courses, supervises the student's research, and facilitates communication within the major department, to other departments and to the Graduate School. The advisor must approve the student's program each semester. Many departments assign a temporary advisor to direct the entering student's work during the period in which the student is becoming acquainted with the institution and determining the focus of research interests, and in which the department is forming a judgment concerning the student's promise as a scholar. As early as appropriate, the student requests a professor in the major department to serve as the advisor. This major professor and the student together select a graduate committee. The student is expected to maintain close consultation with the major professor and other members of the graduate committee with regard to progress in the program. Other responsibilities of the advisor/major professor are explained under individual programs.

Departmental Liaison

To assist graduate students in other majors, one faculty member in each academic department has been designated as a liaison. The liaison is identified in the list of faculty under each department. The liaison acts as a departmental contact to assist non-departmental students with course selection and other academic matters.

Registration

Registration is required of all graduate students when using University facilities and/or faculty time. The minimum number of hours for registration is three. Registration allows use of services such as library checkout, laboratories, and recreation facilities not open to the public.

Information concerning registration is available in the Graduate School News and Timetable of Classes each term and may be changed without notice. The Timetable of Classes, published several weeks prior to each semester, is the official notification of courses offered for a specific semester. Students should contact the appropriate department/professional head concerning courses to be offered in future semesters.

Conditional Registration

A person who appears to meet the admission requirements of the Graduate School may be allowed to register for an initial term after submitting the Graduate Application for Admission form and application fee. Time is allowed to obtain transcripts and additional requirements for admission. The student who fails to gain admission within seven weeks after registration will NOT be permitted to register again until all admission requirements are met.

International students may not register conditionally.

Registration for Use of Facilities

Students using University facilities, services or faculty time must be registered. Normally, students are registered for coursework or thesis/dissertation credit. Non-thesis students or those who have not begun research, both of whom have completed all coursework requirements, must register for course 502.

Course Description

Each course listed in the Graduate Catalog contains information in abbreviated form. The course number indicates the level at which the course is taught. All 500- and 600-level courses are graduate courses. The 400-level courses are upper division courses available for graduate credit only if listed in the Graduate Catalog. To receive graduate credit for these, a student must so indicate on the registration material.

The official course title appears following the course number. Numbers in parentheses following the course title indicate the semester hours credit. If the credit is variable, to be determined in consultation with the instructor, the minimum and maximum are shown (e.g., 2-3). The credit hours are followed by a course description indicating the content to be covered.

Prerequisite courses must be taken prior to the course in question. Corequisite courses may be taken prior to or concurrently with the specific course. Recommended prerequisites should be taken previously but are not mandatory.

Some courses may be repeated for a maximum number of hours allowable toward a degree program. This number is stated for each repeatable course with the exception of Thesis 500, Dissertation 600, and Registration for Use of Facilities 502. Courses may be cross-listed with two or more departments, an arrangement indicated by a parenthetical statement: (Same as Psychology 543). The course description is given only under the primary department.

"SNC only" indicates that the course may be taken only for Satisfactory/No Credit grading. Refer to section on Grades.

A symbol indicating the semester or frequency that the course is normally offered is included at the end of many course descriptions:

- F-Fall
- E-Every semester
- Sp-Spring
- A-Alternate years
- Su-Summer

These codes are indicated only for Knoxville campus classes and are subject to change without notice. The Timetable of Classes, published several weeks prior to each semester, is the official notification of courses offered for a specific semester. Students should contact the appropriate department/professional head concerning courses to be offered in future semesters.

Change of Registration

The permanent record will show all courses for which the student has registered except those audited and those from which the student has withdrawn during the first 29 calendar days after the beginning of classes.

Students who fail to attend the first class meeting without prior arrangement with the department MAY BE DROPPED from the course to make space available to other students. Students have the responsibility to assure that they have been dropped. Otherwise they may receive a grade of F in the course. The deadline for all other changes of registration (e.g. from graduate to undergraduate, undergraduate to graduate, withdrawal) is approximately 42 calendar days after the first day of classes each semester. (See Graduate School News or Timetable of Classes for exact date.) A student may change registration for a course at any time prior to and including this date by accessing the telephone registration system. The student must affirm that the advisor has granted approval of the change. If additional permission is necessary, a student must execute a change of registration, in person, at the Computer Assisted Registration Services Office. The instructor's signature is required to add a course. If the course is closed and/or after the first 29 calendar days of classes, the student must sign the form certifying approval of the advisor.

If the student withdraws from a course, or from the University, after the first 29 calendar days of classes and before the change of registration deadline, a grade of W will be entered on the permanent record.

After the change of registration deadline, a student withdrawing from a course or from the University will receive a grade of F unless it can be demonstrated that the course for withdrawal is based on circumstances beyond the student's control. In the latter case, a grade of W will be entered on the permanent record.

To change registration in any way after the deadline, a student must present the request, together with documentation of exigent circumstances, to the Office of Graduate Admissions and Records. In addition, the student must complete a change of
registration form and questionnaire signed by the instructor(s) and advisor as evidence of their knowledge of the request. If the request is approved, the Office of Graduate Admissions and Records will authorize the change on the student’s permanent record.

Course Loads

The maximum load for a graduate student is 15 hours, and 9 to 12 hours are considered a full load. For the summer term, graduate students may register for a maximum of 12 semester hours in an entire summer term or for a maximum of 6 semester hours in a 5-week summer session. Students may enroll in only one course during a mini-term session.

Students holding a one-half time assistantship normally should enroll for 6 to 11 semester hours. A one-fourth time graduate assistant normally should take 9 to 13 semester hours. A student on a one-half time assistantship who takes six semester hours will be considered full time. Refer to the Policy for the Administration of Graduate Assistantships for the additional information.

Students receiving financial aid should consult with the department/program head concerning appropriate course loads. Courses audited do not count toward minimum graduate hours required for financial assistance.

Registration for more than 15 hours during any semester, or for more than 12 hours in the summer term, is not permissible without prior approval of The Graduate School, which may allow registration of up to 18 hours during a semester if the student has achieved a cumulative grade-point average of 3.6 or better in at least nine hours of graduate work with no outstanding incompeltes. No more than 12 hours are permissible in the summer term without prior approval.

Grade-Point Average and Grades

A cumulative grade-point average of 3.0 is required on all graduate coursework taken at UT Knoxville to remain in good standing and to receive any graduate degree from the University. All coursework taken for graduate credit is computed into the GPA.

Grades in The Graduate School have the following meanings:

A (4 quality points per semester hour), superior performance.
B+ (3.5 quality points per semester hour), better than satisfactory performance.
B (3 quality points per semester hour), satisfactory performance.
C+ (2.5 quality points per semester hour), less than satisfactory performance.
C (2 quality points per semester hour), performance well below the standard expected of graduate students.
D (1 quality point per semester hour), clearly unsatisfactory performance and cannot be used to satisfy degree requirements.
F (no quality points), extremely unsatisfactory performance and cannot be used to satisfy degree requirements.
I (no quality points), a temporary grade indicating that the student has performed satisfactorily in the course but, due to unforeseen circumstances, has been unable to finish all requirements. An I is not given to enable a student to do additional work to raise a deficient grade. All incompletes must be removed within one semester, excluding the summer term. If a supplementary grade report has not been received in the Office of Graduate Admissions and Records at the end of the semester, the I will be changed to an F. The grade F will not be counted in the cumulative grade average until a final grade is assigned. No student may graduate with an I on the record.

S/NC (carries credit hours, but no quality points), S is equivalent to a grade of B or better, and NC means no credit earned. Courses where NC is received may be repeated for a grade of S. A grade of S/ NC is allowed only where indicated in the course description in the Graduate Catalog. The number of S/NC courses in a student’s program is limited to one-fourth of the total credit hours required.
P/NP (carries credit hours, but no quality points), P indicates progress toward completion of a dissertation or thesis. NP indicates no progress or inadequate progress.
W (carries no credit hours or quality points), indicates that the student officially withdrew from the course.

No graduate student may repeat a course for the purpose of raising a grade already received, with the exception of NC. A graduate student may not do additional work nor repeat an examination to raise a final grade. A change of grade may occur only in cases of arithmetic or clerical error and must have approval of The Graduate School. An instructor may not initiate a change of grade as a result of a reevaluation of the quality of the student’s performance or as a result of additional work performed by the student.

Refer to Law Courses under Registration and Enrollment Requirements and Law under Fields of Instruction for Law grading system.

Academic Standards

Graduate education requires continuous evaluation of the student. This evaluation includes not only periodic objective evaluation, such as the cumulative grade-point average, performance on comprehensive examinations and acceptance of the thesis or dissertation, but also judgments by the faculty of the student’s progress and potential. Continuation in a program is determined by consideration of all these elements by the faculty and the head of the academic unit.

The academic records of all graduate students are reviewed at the end of each semester, including the summer term. Graduate students must maintain a cumulative grade-point average (GPA) of at least 3.0 on all graduate courses taken for a letter grade of A-F. Grades of S/NC, P/NP, and I, which have no numerical equivalent, are excluded from this computation. Dismissal from programs may have requirements for continuation or graduation in addition to the minimum requirements set forth in this Catalog by The Graduate School. It is the student’s responsibility to be familiar with the special requirements of their department or program.

ACADEMIC PROBATION

Upon completion of nine hours of graduate coursework, a graduate student will be placed on academic probation when his/her cumulative GPA falls below 3.0. A student will be allowed to continue graduate study in the fall and spring semesters if each semester’s grade-point average is 3.0 or greater. Upon achieving a cumulative GPA of 3.0, the student will be removed from probationary status.

DISMISSAL

If a student is on academic probation, the degree or non-degree status will be terminated by The Graduate School if the student’s semester GPA falls below a 3.0 in a subsequent semester. When the particular circumstances may be deemed to justify continuation, and upon recommendation of the appropriate academic unit and approval of The Graduate School, a student on probation whose semester GPA is below 3.0 may be allowed to continue on a semester-by-semester basis.

Dismissal of a graduate student by a department or program is accomplished by written notice to the student, with a copy to The Graduate School. In those cases where the department’s requirements for continuation are more stringent than Graduate School requirements, The Graduate School will evaluate the student’s record to determine whether the student is eligible to apply for a change of status and register in another area of study. Registration for courses in a department from which a student has been dismissed will not be permitted, except by written authorization from that department.

Academic Honesty

Academic integrity is a responsibility of all members of the academic community. An honor statement is included on the application for admission and readmission. The applicant’s signature acknowledges that adherence is confirmed. The honor statement declares that:

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

Webster’s Ninth New Collegiate Dictionary (1983) defines plagiarism as “stealing or passing off ideas or words of another as one’s own”; “the use of a created production without crediting the source.” Any material taken from another source must be documented, and in no case should one present another person’s work as one’s own. Extreme caution should be exercised by students involved in collaborative research to avoid questions of plagiarism. If in doubt, students should check with the major professor and The Graduate School about the project. Plagiarism will be investigated when suspected and prosecuted if established.
Minors

For the master's degree at UT Knoxville, a minor is defined as 6-12 semester hours in one field outside the major. Usually the minor courses are within a single teaching discipline that also offers a major.

Three interdisciplinary minors are available: in Statistics (Business Administration) and in Gerontology (Human Ecology) at both the master's and doctoral levels, and in Environmental Policy (Economics) at the master's level only. See Fields of Instruction for specific requirements and approval provisions.

The minor area must be approved by the major and minor academic units, and a member from the minor unit must serve on the graduate committee.

Transfer Credits

Courses taken at another institution may be considered for transfer into a master's or Ed.S. program as determined by the committee and approved by The Graduate School. At the doctoral level, courses are not officially transferred although they may be used to meet degree requirements. Where a requirement has been met through coursework in another program, the student may petition the academic unit for a waiver of the requirement at the doctoral level.

Courses transferred to any graduate program will not affect the minimum residence requirements for the program, nor will they be considered for transfer into a master's or Ed.S. program at UT Knoxville. The student's academic unit in the program will not accept courses taken from other institutions.

A request to transfer courses is recommended to the student's academic unit in the program. The request should include a proposal and justification for the exception. In all cases, proper procedures can be assured. Failure to present a proper request or justification will result in denial of credit.

Theses and Dissertations

The thesis/dissertation normally should be written in English. Under exceptional circumstances, another language may be used if prior approval is obtained from The Graduate School. A request to write in a language other than English should be submitted to the Dean of The Graduate School. The thesis/dissertation normally should be submitted to The Graduate School Thesis/Dissertation Consultant for examination. The Consultant will review the material and assure that it is attractively presented, free of technical errors in format, suitable for binding, and reflects credit upon the University and The Graduate School. If the thesis or dissertation is not accepted, the student must make corrections and resubmit the material.

To be transferred into a master's or Ed.S. program at UT Knoxville, a course must:

1. be taken for graduate credit.
2. carry a grade of B or better.
3. be a part of a graduate program in which the student had a B average.
4. not have been used for a previous degree.
5. be approved by the student's graduate committee and The Graduate School on the Admission to Candidacy form.

Courses transferred to any graduate program will not affect the minimum residence requirements for the program, nor will they be counted in determining the student's grade-point average. Credits transferred from universities outside The University of Tennessee system cannot be used to meet the 500- or 600-level coursework requirements. Credit for extension courses taken from other institutions is not transferable, nor is credit for any course taken at an unaccredited and/or foreign institution.

Degree Program Requirements

A complete list of programs is found under the Majors and Degree Programs chart. For specific degree requirements, consult individual program descriptions listed by college and field of instruction in this Catalog. See also the summary of procedures charts, and refer to The Graduate School News, Hilltopics, published directly to the Office of Graduate Admissions and Records.

The minor area must be approved by the major and minor academic units, and a member from the minor unit must serve on the graduate committee.

Minors

For the master's degree at UT Knoxville, a minor is defined as 6-12 semester hours in one field outside the major. Usually the minor courses are within a single teaching discipline that also offers a major.

The term "concentration" with a major that focuses on a particular subject area. The term "specialization" describes the nature of the set of courses.

The following are the Graduate School's minimum requirements for degree programs. Refer to the Fields of Instruction for additional program requirements.

Definition of Graduate Terms

Major: The principal educational interest of a student as represented by one of the curricula prescribed by the various units at UT Knoxville. The major specifies the minimal requirements for a degree.

Minor: An area of interest secondary to the major that is represented by a specified set of hours and/or courses. Differ from "concentration" in that a minor is not a subdivision of the major.

Concentration: A collection of courses within a major that focuses on a particular subject area. The term "concentration" describes the nature of the set of courses.


Cognate: A limited block of courses or hours required outside the unit in which the major is offered.

Specialization: A sub-collection of courses within a concentration that focuses on specific subject matter. The term "specialization" describes the nature of the set of courses.

Track: A separate route leading to the same degree but with different requirements.

Tool: A limited block of courses or hours required to enhance research or methodological expertise.

ED.S. DEGREE

A maximum of six semester (nine quarter) hours of coursework beyond the master's degree may be transferred to an Ed.S. program. Transferred courses must be taken in the most recent 50 hours taken for the degree must have been completed within the six-year period prior to the receipt of the degree. The courses must be listed on the Admission to Candidacy form and will be placed on the student's UT Knoxville transcript only after admission to candidacy.

DOCTORAL DEGREE

Coursework taken prior to admission to a doctoral program may be used toward the degree, as determined by the student's doctoral committee. Although the courses are used as part of the requirements toward the degree and are listed on the admission to candidacy, they are not officially transfer courses and are not placed on the student's UT Knoxville transcript.

Theses and Dissertations

All theses and dissertations are submitted to The Graduate School Thesis/Dissertation Consultant for examination. The Consultant will review the material and assure that it is attractively presented, free of technical errors in format, suitable for binding, and reflects credit upon the University and The Graduate School. If the thesis or dissertation is not accepted, the student must make corrections and resubmit the material.

The student, major professor, and committee should be responsible for the accuracy and professionalism of the final product of the student's research. The student should conform with the Thesis/Dissertation Consultant regarding problems and questions in advance of preparing the final copy. The UT Knoxville Guide to the Preparation of Theses and Dissertations (8th ed.) provides the correct format for theses or dissertations. Workshops are held periodically throughout the academic year. The date for each workshop is announced in the Graduate School News.

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comply with these requirements may lead to rejection of a thesis or dissertation manuscript.

Master’s Degrees

Master’s degree programs are available with thesis and non-thesis options. These programs require 30 or more graduate hours of coursework. In addition to the M.A. and M.S. degrees, other degrees are offered, including the MBA and the M.S.S.W.

COURSE REQUIREMENTS

A candidate for a master’s degree must complete a minimum of 30 hours of graduate credit in courses approved by the student’s master’s committee. In thesis programs, 6 semester hours of credit in the major (and 9-12 in some approved programs) must be earned in course 500 while the student is preparing the thesis. Hours applied to the master’s degree may be entirely from one major subject or may be distributed to include one or two minor areas. In a 30-hour program, the major subject must include at least 12 hours of graduate coursework, exclusive of course 500, and a minor must include not fewer than 6, nor more than 12, hours of graduate credit.

At least two-thirds of the minimally required hours in a master’s degree program must be taken in courses numbered at or above the 500 level. Only 6 thesis hours can be counted toward this requirement.

For coursework taken at other institutions, refer to section on Transfer Credits.

SECOND MASTER’S DEGREES

For a second master’s degree, the student must have fulfilled all major requirements applicable to the first master’s degree, including the thesis, if appropriate. Coursework applied to one master’s degree program may not be applied toward a second.

MASTER’S COMMITTEE

A committee composed of the major professor and at least two other faculty members, all at the rank of assistant professor or above, should be formed as early as possible in a student’s program, and must be formed by the time a student applies for admission to candidacy (refer to Advisor/Major Professor). The responsibility of this committee is to assist the student in planning a program of study and carrying out research, and to assure fulfillment of the degree requirements. If the student has a minor, one member of the committee must be from the minor department.

ADMISSION TO CANDIDACY

Admission to candidacy reflects agreement among the student, graduate committee, and The Graduate School that the student has demonstrated ability to do acceptable graduate work and that normal progress has been made toward a degree. This action usually connotes that all prerequisites to admission have been completed and a program of study has been approved.

The application for the master’s degree is made as soon as possible after the student has completed any prerequisite courses and nine hours of graduate coursework with a 3.0 average or higher in all graduate work. The
EDS COMMITTEE

A committee of at least three faculty members is assigned to each student. A minimum of two members of this committee must represent the unit or major area. Its responsibilities include formulating the student's program of coursework, supervising progress, recommending admission to candidacy, directing research, and coordinating the qualifying and final examinations.

RESIDENCE REQUIREMENTS

Residence is defined as full-time registration for a given semester on the campus where the program is located. The summer term is included in this period. During residence, it is expected that the student will be engaged in full-time on campus study toward a graduate degree.

For the Ed. S. degree, one semester of residence is required if the student has a master's degree; two consecutive semesters of residence if the student lacks a master's degree.

ADMISSION TO CANDIDACY

Admission to candidacy reflects agreement among the student, graduate committee, and The Graduate School that the student has demonstrated ability to do acceptable graduate work and that normal progress has been made toward a degree. This action usually connotes that all prerequisites to admission have been completed and a program of study has been approved.

The Admission to Candidacy form must be signed by the student's committee and listed all courses to be used for the degree, including transfer coursework. This form is submitted to the Office of Graduate Admissions and Records before the student has completed 15 hours of coursework in the Ed. S. program. A qualifying examination may be required for admission to candidacy if the student has a master's degree earned six years or more prior to admission to the program. This examination may be written and/or oral.

RESEARCH REQUIREMENTS

See the program descriptions of individual units for listings of thesis, problems in lieu of thesis, and non-thesis options. Some units offer only a thesis program.

1. In the non-thesis program, a candidate will study research methods and findings and will demonstrate skill in adapting them to professional needs as defined by the major department.

2. In the thesis program, or problems in lieu of thesis, 6 hours of research credit (518 and 519) must be earned in preparation of acceptable work of the student. The student must continue to register for thesis or problems while working on the project, including the semester it is accepted by The Graduate School. The thesis must be prepared according to instructions in the UT Knoxville Guide to the Preparation of Theses and Dissertations (8th ed.), and approved by the student's committee prior to submission to The Graduate School for final approval and acceptance.

FINAL EXAMINATION

A candidate presenting a thesis, or problems in lieu of thesis, must pass an oral examination covering the student's research and program of study. A non-thesis student must pass a final written, or written and oral examination, on all work offered for the degree. The examination is not merely a test over coursework, but a demonstration of the candidate's ability to integrate materials in the major and related fields. Each examination must be scheduled through the Office of Graduate Admissions and Records before the deadline and will be conducted in University facilities by the student's committee. Final examinations not properly scheduled must be repeated. In case of failure, the candidate may not be reexamined until the following semester. The result of the second examination is final.

TIME LIMIT

Candidates have six calendar years from the time of entry into the last 30 hours of their Ed. S. degree.

Doctoral Degrees

Two doctoral degree programs are available: Doctor of Philosophy (Ph.D.) and Doctor of Education (Ed.D.).

For a list of programs, see Majors and Degree Programs chart. For specific degree requirements, consult individual program descriptions listed by college and field of instruction in this Catalog. See also Summary of Procedures for Doctoral Degrees chart.

The doctoral degree is evidence of exceptional scholarly attainment and demonstrates capacity in original investigation. Requirements for the degree, therefore, include courses, examinations, and a period of resident study, as well as arrangements which guarantee sustained, systematic study and superior competency in a particular field.

PROGRAM OF STUDY

The student's program of study is subject to Graduate Council policies and individual program requirements. The program of study as listed by the student on the Admission to Candidacy form must be approved by the doctoral committee. Doctoral programs include a major field or area of concentration and, frequently, one or more cognate fields. Cognate fields are defined as a minimum of 6 semester hours of graduate coursework in a given area outside the student's major field.

A candidate for a doctoral degree must complete a minimum of 24 hours of graduate coursework beyond the master's degree, which is a prerequisite for entry into most doctoral programs. If the doctoral program does not require a master's degree, the candidate must complete a minimum of 48 hours of graduate coursework beyond the baccalaureate degree. A minimum of 12 of the 24 hours, or 30 of the 48 hours, must be graded A-F. A minimum of 6 semester hours of the student's coursework must be taken in UT Knoxville courses at the 600 level, exclusive of dissertation.

In addition, 24 hours of course 600 Doctoral Research and Dissertation are required. See Continuous Registration. For coursework taken prior to admission to the doctoral program, see section on Transfer Credits.

DOCTORAL COMMITTEE

The major professor directs the student's dissertation research and chairs the dissertation committee. The student and the major professor identify a doctoral committee composed of at least four faculty members, holding the rank of Assistant Professor or above, three of whom, including the chair, must be approved by The Graduate Council to direct doctoral research. At least one member must be from an academic unit other than that of the student's major field. This committee is nominated by the department head or college dean and approved by The Graduate School.

The committee should be formed during the student's first year of doctoral study. Subject to Graduate Council policies and individual program requirements, the committee must approve all coursework, and general background of the degree, certify the student's mastery of the major field and any cognate fields, assist the student in conducting research, and recommend the dissertation for approval and acceptance by The Graduate School.

DOCTORAL EXAMINATIONS

Departments may, at their option, administer diagnostic and qualifying examinations in the early stages of the student's doctoral program. Successful completion of a comprehensive examination and a defense of dissertation is required for all doctoral degrees. Registration is required the term in which examinations are taken.

Diagnostic Examination

A student on admission to a doctoral program may be given a written and/or oral diagnostic examination to help determine the student's level of preparation, areas of strengths and weaknesses, and general background. The diagnostic examination is designed to aid in the selection of courses and to determine the student's preparation to continue doctoral studies at UT Knoxville.

Qualifying Examination

A written and/or oral qualifying examination may be given near the end of the student's first year in the doctoral program. Qualifying examinations are designed to test the student's progress, general knowledge of fundamentals of the field, and fitness to continue with the more specialized aspects of the doctoral program.

Comprehensive Examination

The comprehensive examination (or the final part of this examination, when parts are given at different times) is normally taken when the doctoral student has completed all or nearly all prescribed courses. Thus, its successful completion indicates that, in the judgement of the faculty, the doctoral student can think analytically and creatively, has a comprehensive knowledge of the field and the specialty, knows how to use academic resources, and is deemed capable of completing the dissertation. The comprehensive examination must be passed prior to candidacy. A written examination is required, and an oral examination is encouraged.

The faculty of the graduate program and/or the student's doctoral committee will determine the content, nature and timing of the comprehensive examination and certify its successful completion. The department or committee may
at its discretion subdivide the examination, administering portions of the examination at several times during the student’s course of study. Students should review carefully the written statement from each doctoral degree program which details the timing, areas covered, grading procedures, and provisions for repeating a failed examination.

Defense of Dissertation Examination
A doctoral candidate must pass an oral examination on the dissertation. The dissertation, in the form approved by the major professor, must be distributed to the committee at least two weeks before the examination. The examination must be scheduled through the Graduate Admissions and Records Office at least one week prior to the examination and must be conducted in University facilities. Final examinations not properly scheduled must be repeated. The examination is announced publicly and is open to all faculty members. The defense of dissertation will be administered by all members of the doctoral committee after completion of the dissertation and all course requirements. This examination must be passed at least two weeks before the date of submission and acceptance of the dissertation by the Graduate School. The major professor must submit the results of the defense by the dissertation deadline.

LANGUAGE REQUIREMENTS
Candidates for the Ph.D. degree may be required to demonstrate a reading knowledge of at least one foreign language in which there exists a significant body of literature relevant to the major field of study. Please refer to the descriptions of individual programs. The doctoral committee will determine the specific language (or languages) required. When the student is prepared to take a language examination, he/she should complete an Application for Doctoral Language Examination at the Office of Graduate Admissions and Records in accordance with the dates and times for the examinations printed in the Graduate School News.

Satisfactory completion (grade of B or better) of German 332 or French 302 may be substituted for a language examination.

Some programs may accept a computer language in lieu of a foreign language.

RESIDENCE REQUIREMENTS
Residence is defined as full-time registration for a given semester on the campus where the program is located. The summer term is included in this period. During residence, it is expected that the student will be engaged in full-time on-campus study toward a graduate degree.

For the doctoral degree, a minimum of two consecutive semesters of residence is required. Individual doctoral programs may have additional residence requirements.

A statement as to how and during what period of time the residence requirement has been met will be presented with the Application for Admission to Candidacy along with signatures of approval from the major professor and the Department Head/Program Director. More information about the rationale for the residence requirement may be obtained from the Graduate Council report available in the Graduate School.

ADMISSION TO CANDIDACY
Admission to candidacy reflects agreement among the student, graduate committee, and the Graduate School that the student has demonstrated the ability to do acceptable graduate work and that normal progress has been made toward a degree. This action usually connotes that all prerequisites to admission have been completed and a program of study has been approved.

A student may be admitted to candidacy for the doctoral degree after passing the comprehensive examination, fulfilling any language requirements (for Ph.D.), and maintaining at least a B average in all graduate coursework. Each student is responsible for filing the admission to candidacy form, which lists all courses to be used for the degree, including courses taken at UT Knoxville or at another institution prior to admission to the doctoral program, and is signed by the doctoral committee. Admission to candidacy must be applied for and approved by the Graduate School at least one full semester prior to the date the degree is to be conferred.

CONTINUOUS REGISTRATION
The student must register continuously for course 600 (minimum of 3 hours) from the time the doctoral research proposal is approved, admission to candidacy is accepted, or registration for course 600 is begun, whichever comes first, including summer semester and the semester in which the dissertation is approved and accepted by the Graduate School. A minimum total of 24 hours of course 600 is required before the dissertation will be accepted.

A student who will not be using faculty services and/or university facilities for a period of time may request leaves of absence from dissertation research up to a maximum of six terms (including summer terms). The request, to be made in advance, will be considered by The Graduate School upon written recommendation of the department head.

DISSERTATION
The dissertation represents the culmination of an original major research project completed by the student. The organization, method of presentation, and subject matter of the dissertation are important in conveying to others the results of such research.

A student should be registered for the number of dissertation hours representing the fraction of effort devoted to this phase of the candidate’s program. Thus, a student working full time on the dissertation should register for 12 hours of course 600 per semester.

Two copies of the dissertation (prepared according to the regulations in the UT Knoxville Guide to the Preparation of Theses and Dissertations, 8th ed.) must be submitted to and accepted by The Graduate School. Each copy must include an approval sheet, signed by all members of the doctoral committee, which certifies to The Graduate School that the student has examined the final copy and found that its form and content demonstrate scholarly excellence. Microfilm Agreement form, Survey of Earned Doctorates, Abstract form and a thesis card are also submitted at this time. The student should check with the department head concerning additional required copies of the dissertation.
### Summary of Procedures for Master’s Degrees and Specialist in Education Degree

#### PROCEDURES

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<td>Formation of master’s/Ed.S. committee</td>
<td>Advisor/Major professor</td>
<td>Prior to application for admission to candidacy</td>
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<td>Submission of application for admission to candidacy</td>
<td>Master’s/Ed.S. committee</td>
<td>At least one semester prior to graduation*</td>
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<tr>
<td>Approval of admission to candidacy</td>
<td>The Graduate School</td>
<td>Prior to graduation</td>
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#### GRADUATION REQUIREMENTS FOR NON-THESIS OPTION

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<td>Student</td>
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<tr>
<td>Scheduling of Final Examination</td>
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<tr>
<td>Final Examination</td>
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<td>Removal of Incomplete(s)</td>
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#### GRADUATION REQUIREMENTS FOR THESIS/PROBLEMS OPTIONS

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<tr>
<td>Submission of thesis/problems to master’s/Ed.S. committee</td>
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<td>Scheduling of Final Examination</td>
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<td>Not later than one week prior to Final Examination*</td>
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<td>Final Examination</td>
<td>Master’s/Ed.S. Committee</td>
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<tr>
<td>Approval and acceptance of final copy of thesis and thesis card</td>
<td>Master’s/Ed.S. committee and The Graduate School</td>
<td>After Final Examination and not later than two weeks prior to Commencement*</td>
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<td>Removal of Incomplete(s)</td>
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*Deadlines are printed in the Graduate School News each semester.*
### Summary of Procedures for Doctoral Degrees

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<td>Department</td>
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<td>*Appointment of doctoral committee</td>
<td>The Graduate School on recommendation of department</td>
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<td>*Comprehensive Examination</td>
<td>Major department</td>
<td>Prior to admission to candidacy</td>
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<td><em>Language examination(s)</em>*</td>
<td>Office of Graduate Admissions and Records</td>
<td>Prior to admission to candidacy</td>
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<td>Doctoral committee and The Graduate School</td>
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<td>Defense of Dissertation</td>
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*The order of these items varies with individual programs.
**Not required in some programs.
***Deadlines are printed in the Graduate School News each semester.
Fees and Financial Assistance

Residency Classification for Tuition Purposes

A prospective student who applies to The Graduate School is notified of residency classification (in-state or out-of-state) for tuition purposes. Classifications based on information supplied on the Graduate Application for Admission. A student cannot acquire in-state status on the basis of full-time enrollment at a higher educational institution in Tennessee. Proof of in-state residence is the responsibility of the individual.

A student classified out-of-state who (1) works full-time in the state at Fort Campbell, Kentucky, and (2) desires to attend UT Knoxville on a part-time basis (maximum 6 hours of coursework per semester), is eligible for a waiver of out-of-state tuition. The student must apply for a waiver prior to the date of registration each semester. Forms are available from the Admissions Specialist in the Office of Graduate Admissions and Records.

RULES OF RESIDENCY CLASSIFICATION

Intent

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

Definitions

(1) "Public higher educational institution" shall mean a university or community college supported by appropriations made by the Legislative body of this State.

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

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

(4) "Emancipated person" shall mean a person who is no longer in the care, custody and control of his or her parent.

(5) "Parent" shall mean a person's father or mother. If there is a non-parental guardian or legal custodian, then "parent" shall mean such guardian or legal custodian; provided, that there are not circumstances indicating that such guardianship or custodianship was created primarily for the purpose of conferring the status of an in-state student on such unemancipated person.

(6) "Continuous enrollment" shall mean enrollment at a public higher educational institution or institutions of this State as a full-time student, as such term is defined by the governing body of said public higher educational institution or institutions, for a normal academic year or years or the appropriate portion or portions thereof since the beginning of the period for which continuous enrollment is claimed. Such person need not enroll in summer sessions or other such inter-sessions beyond the normal academic year in order that his or her enrollment be deemed "continuous." Enrollment shall be deemed continuous notwithstanding lapses in enrollment occasioned solely by the scheduling of the commencement and/or termination of the academic years, or appropriate portion thereof, of the public higher educational institutions in which such person enrolls.

Rules for Determination of Status

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

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

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

Out-of-State Students Who Are Not Required to Pay Out-of-State Tuition

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

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

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

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

(5) The spouse of a student classified as "in-state" shall also be classified "in-state."

Presumption

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

Evidence to be Considered for Establishment of Domicile

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

Appeal

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

Effective Date for Reclassification

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

University Fees

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

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

All students must show their intent to enroll by 1) making payment, 2) payment arrangements, or 3) returning the "Confirmation" form if no fees are due. The schedule will be cancelled if one of the above is not completed. This includes graduate assistants, teaching assistants, teaching associates, research assistants, staff, and others whose fees may be billed, prepaid, or waived. Late payment fees are applicable to students who register during Final Registration.

No student is authorized to attend classes who has not obtained a computerized class schedule and satisfied his/her intent to enroll.
The University is authorized by statute to withhold diplomas, grades, transcripts, and registration privileges on any students until their debts and obligations (other than Student Loan Fund notes which have not matured) owed to the University are satisfied.

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

**APPLICATION FEE .................................. $15**

Each graduate application for admission must be accompanied by a non-refundable fee of $15 before it will be processed (fee not required if: (1) former UT Knoxville graduate student; or (2) paid to UT Knoxville Graduate School within the previous 12 months).

If a student applies but does not enter graduate school within twelve months after date of requested admission, the file will be destroyed and it will be necessary to resubmit the $15 application fee and a new application. This fee is not refundable.

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<th>IN-STATE FEES</th>
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<td>MAINTENANCE FEE</td>
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<th>OUT-OF-STATE FEES</th>
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NOTE: Part-time students pay fees computed by the semester hour credit (or audit) as follows:
- In-State $135 per semester hour or fraction thereof; minimum charge $135.
- Out-of-State $360 per semester hour or fraction thereof; minimum charge $360.

**UNIVERSITY PROGRAMS AND SERVICES FEE**

**PER SEMESTER ........................................ $140**

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

All students enrolled in excess of eight semester hours per term are assessed an activity fee of $4.00. Part-time students taking fewer than nine semester hours will be assessed at the rate of $9 per semester hour or fraction thereof; minimum charge $9.

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

Knoxville campus day students taking a course load of 6-8 hours may elect to pay the full programs and services fee.

Knoxville campus day students taking a course load of 3-5 hours may elect to pay the student health fee ($42), plus the appropriate part-time programs and services fee.

The University programs and services fee is not refundable.

The fee for the summer term is $84.

For a priority registered student, upon receipt of a VoIXpress statement (full, partial, or incomplete), a student is registered and is responsible for payment of fees by the due date shown on the statement or the schedule will be cancelled.

**GRADUATED LATE PAYMENT FEE**

For a student who registers during Final Registration, payment must be made by 4:30 p.m. of the second business day following the day the student registers. In addition, students who register during Final Registration through the first week of classes will be assessed a $20.00 late payment fee. Students whose registration is initiated after the second week of classes will be assessed a $40.00 late payment fee; during the third week of classes, a $60.00 late payment fee; during the fourth week of classes, an $80.00 late payment fee.

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

**RESTATEMENT FEE .................................. $45**

VoIXpress accounts which have a balance at the end of a term will be assessed a reinstatement fee of $45, and grades will be withheld.

**RETURNED CHECK SERVICE FEE POLICY**

All checks are deposited the day they are received. A $20 service charge will be assessed when checks fail to clear the bank on which drawn. Returned checks will not be re-deposited. Cash or certified funds are required for payment of the returned check and service charges.

Any student who does not respond within 2 weeks from the date of the first notice may be assessed an additional $50 Service Charge.

Failure to clear returned checks will result in the forfeiture of all University services, including the receipt of grades, transcripts, schedule of classes, and check cashing services.

**MUSIC FEE**

One half-hour lesson per week per semester ........................................ $60

One hour lesson per week per semester ............................................. $120

Payable by students receiving individual instruction in music.

**GRADUATION FEE**

Master's degree candidates ........................................... $30

Doctoral degree candidates ............................................... $75

Doctoral hood rental (optional) ............................................ $5

There are no additional charges for diploma, binding, or microfilming. The graduation fee is non-refundable and is valid for two semesters after the semester in which it is paid. The doctoral hood rental applies only to those students who have not purchased a doctoral hood and are participating in the graduation ceremony.

**PROFICIENCY FEES**

Fees for proficiency examinations are $7 per credit hour for graduate students. See Proficiency Examinations for additional information.

**TUITION PAYMENT PLANS**

All student fees are due in advance and should be paid in full by due date shown on VoIXpress statement.

**Prepayment Plan**

A prepayment plan has been developed to assist students and/or parents with planning and budgeting their academic year expenses. Under the plan, students and/or parents may choose the expenses they wish to prepay, including room, board, tuition, and fees. Expenses can be prepaid over a period of eight months. Students and/or parents wishing to participate in the prepayment plan should contact the Bursar’s Office for details.

**Deferred Payment Plan**

Although fees, rent, and other University expenses are due and payable before the beginning of each term, students in good financial standing with a definite anticipated source of funds will be offered a deferment of up to 50% of the total charges on their VoIXpress statement. The deferred payment may be divided into two equal installments payable on approximately the 28th and 56th day of the term. All financial aid must be applied toward fees before a deferment will be considered. A deferred payment service fee of $10 is assessed when any portion of tuition, fees, and other charges are deferred with the approval of the Bursar’s Office. An additional $25 late payment charge will be assessed on each monthly installment not paid on or before the due date. For more details, contact the Bursar’s Office.

**Room and Board Payment Plan**

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

**DEFERRED PAYMENT SERVICE FEE ... $10**

(See Tuition Payment Plans)

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

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

**FEES FOR COURSES NOT TAKEN FOR CREDIT**

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

After intent to enroll has been shown by the student, withdrawal for the semester must be by official notification to the Office of Graduate Admissions and Records Office, 218 Student Services Building. Failure to attend class does not automatically withdraw or drop a student from college or class.

The effective date of withdrawal is the date the Office of Graduate Admissions and Records is notified by completion of the official withdrawal request form. The appropriate percentage of fees will be charged unless this action is completed by the close of the day before the first official day of classes for the semester. Failure to notify the Withdrawal Office promptly when withdrawing could result in a larger fee assessment. Withdrawal does not cancel fees and charges already incurred.

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

For a regular academic semester, withdrawal within 5 business days beginning with the first day following registration check-in permits a 90 percent fee refund. Withdrawal between 6 and 10 business days following registration check-in permits an 80 percent fee refund. Withdrawal between 11 and 15 business days following registration check-in permits a 60 percent fee refund. Withdrawal between 16 and 20 business days following registration check-in permits a 40 percent fee refund. The above withdrawal refund policy does not apply to the off-campus Graduate Centers. Refunds, in accordance with the withdrawal refund policy, will be made after the drop deadline. If financial aid has been received for the term, the refund will be applied to financial aid repayment before the student receives any refund.

Refunds

Refunds are defined as the portion of maintenance and/or tuition and University housing charges due as rebate when a student withdraws or is expelled from the University. The amount of a refund is determined by the Refund/Charge stated above.

First-time students who withdraw during the 60% point in time for which the student was charged and who received Title IV funds will have the refund calculated by the pro-rata refund policy published in the "1993-94 Federal Student Financial Aid Handbook."

Repayments

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

Refunds and repayments to the Title IV programs are determined according to the formula published in the "1993-94 Federal Student Financial Aid Handbook." The Financial Aid Office is responsible for calculating the amount of the repayment and distributing the correct amount to the financial aid programs according to the Refund/Repayment Allocation Policy.

REFUND OF FEES FOR DROPPED COURSES

Part-time students pay fees computed at the appropriate semester-hour rate as indicated above. No charge is made for courses dropped during the first 8 business days following registration check-in. A 20 percent charge is made for courses dropped between 9 and 10 business days following registration check-in. A 40 percent charge is made for courses dropped between 11 and 15 business days. A 60 percent charge is made for courses dropped between 16 and 20 business days. A 100 percent charge is made for courses dropped after 20 days.

Students who drop courses are eligible for a refund only if the sum of charges computed at the semester-hour rate for the hours continued, plus the percentage assessed for the hours dropped, results in an amount less than that paid. A course on a student's schedule is officially dropped, and the drop becomes effective, on the date that the change of registration form is processed on a drop/add terminal. Any refund due for dropped courses will be made after the drop deadline.

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

SUMMER TERM FEES AND EXPENSES

Fees and expenses for the summer semester are the same as for other semesters during the academic year, except for University programs and services fees as noted above.

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

The refund policy covering withdrawals and dropped courses for the summer semester is based on the length of the term for the course(s) dropped. No refund is applicable to term courses dropped later than 14 calendar days after the registration check-in day for the course(s) involved.

WAIVER OF FEES

Graduate assistants, teaching assistants and associates, research assistants, staff, and others whose fees are prepaid, waived, or partially waived must show their intent to enroll by making payment, payment arrangements or returning the "Confirmation" portion of the VolXpress statement by the statement due date or the schedule will be cancelled. If an appointment term promptly, the student owes the appropriate fees from the termination date until the end of the term.

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

STUDENT HEALTH INSURANCE

The University makes available, by contract with an insurance company, group health insurance expressly for students. The program is designed to supplement the care provided by the campus Student Health Service and provide basic benefits at low group premium rates. Primary emphasis is placed on hospitalization benefits, since in-patient care is not provided on campus. Students not otherwise covered are urged to avail themselves of this or comparable insurance, since paying for hospital care is the student's responsibility.

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

IDENTIFICATION CARD

The VolCard is issued to a new student after admission at the appropriate University level or anytime during the year to all students. The VolCard is used in nearly all aspects of campus life to obtain services including meals, vending machines, computers, laundry machines, check cashing, sporting events, cultural attractions, residence halls access, library, recreational facilities and equipment, University Bookstore, and much more. Many students have established debit or charge accounts which are accessed through the use of the VolCard ID. These cards are non-transferable and may not be duplicated. The VolCard MUST BE CARRIED AT ALL TIMES FOR PURPOSES OF IDENTIFICATION. Students are responsible for the safekeeping of this card and must immediately report it lost or stolen if the card is not in their possession.

To obtain a new VolCard or replace a lost or stolen card, report to the VolCard Office, Room 337, University Center. There is a minimum charge of $10.00 for replacement of a VolCard.

FEES FOR SPONSORED INTERNATIONAL STUDENTS

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

Financial Assistance

UT Knoxville offers several types of financial assistance for which graduate students may apply.

ASSISTANTSHIPS

Graduate assistantships, scholarships, traineeships, and some fellowships are offered through many departments and colleges. Information concerning these types of assistance can be obtained from the department in which the student plans to study. All assistantships are governed by the Policy for the Administration of Graduate Assistantships. See section on Federal, State and University Policies.

FELLOWSHIPS

The Graduate School administers the Hilton A. Smith Graduate Fellowships, the Herman E. Spivey Graduate Fellowships and the National Alumni Association Graduate Scholarships. These awards are for full-time study at UT Knoxville, and awards are selected on the basis of high achievement, broad intellectual ability and potential for significant career contributions. Candidates from any field of study are invited to apply for the Hilton A. Smith and National Alumni Association awards if they have a 3.7 grade-point average or above in all
previous academic work. Candidates for graduate study in the humanities are invited to apply for the Herman E. Spivey fellowships if they have a 3.7 grade-point average or above in all previous academic work. The Hilton A. Smith and the Herman E. Spivey fellowships include monthly stipends, tuition, and maintenance fees. National Alumni Association scholarships include a stipend presented at the beginning of each semester (Fall and Spring). Application packets are available from November through January in the Office of Graduate Admissions and Records. Completed applications, including all supporting materials, must be submitted to the Staff Assistant, Office of Graduate Admissions and Records, by February 15. Offers of awards are announced March 15.

**ACADEMIC COMMON MARKET**

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

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

Residents of member states who seek further information should contact the Admissions Specialist in the Office of Graduate Admissions and Records, 974-3251, or the Southern Regional Educational Board, 592 Tenth Street, N.W., Atlanta, GA 30318-5790, tel. (404) 875-9211, FAX (404) 872-1477.

**EMPLOYMENT**

Two sources of student employment are coordinated by the Financial Aid Office: (1) The Federal Work Study Program provides part-time and on-campus jobs for U.S. citizens or permanent residents who have demonstrated financial need by completing the Free Application for Federal Student Aid (FAFSA). A wide range of jobs are available in academic units, administrative offices, and non-profit agencies; (2) Job Location and Development, a non-need based program, lists off- and on-campus, part-time job opportunities with agencies and companies. Job interviews and minimal processing are required. Off-campus jobs are limited to U.S. citizens or permanent residents. Students needing either part-time or summer employment are urged to contact the Financial Aid Office.

**LOANS**

Students must be admitted into a degree program to receive student loans. Five types of loan programs are administered by the Financial Aid office: (1) Federal Perkins Loan, formerly National Direct Student Loan (Student Aid Report, SAR, must be on file); (2) subsidized Federal Stafford Loan, formerly Guaranteed Student Loan (SAR must be on file); (3) unsubsidized Federal Stafford Loan (SAR must be on file); (4) FPLUS Loan (requires appropriate SAR file); and (5) The University of Tennessee Loan, Processing time varies from one loan program to another. Interested students should contact the Financial Aid Office for more information.

Students must apply through the Financial Aid Office for all loan programs. Loans are limited to U.S. citizens and certain permanent residents. Additional paperwork is required on subsidized unsubsidized Stafford and FPLUS loans.

Students who have attended any post-secondary institution other than UT Knoxville must provide a Financial Aid Transcript to the Financial Aid Office even if no financial aid was received from the previous institution. All students receiving financial aid are expected to maintain financial aid progress standards to remain eligible to receive aid. In addition, all students receiving federal financial aid must have a social security number. Information on these standards, applications, and additional information are available from the Financial Aid Office, 115 Student Services Building.

**VETERANS BENEFITS**

Veterans, and widows or children of certain deceased for disabled veterans, who have been admitted to a degree program, may apply for benefits by contacting the Veterans Affairs Office. Maximum benefits are paid by the Veterans Administration for course loads of 9 or more graduate hours each semester.

**Special Federal and State Laws and University Policies**

**Family Educational Rights and Privacy Act**

The Family Educational Rights and Privacy Act provides for confidentiality of student records. However, it also provides for basic identification of persons at UT Knoxville 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 may include name, address, telephone number, date and place of birth, major, dates of attendance, degrees and awards, the most recent previous educational agency or institution attended, participation in school activities and sports, and weight and height (for special activities).

Notice of the categories to be contained in a publication will be given in advance. A period of one week is provided during which a student may request that such information not be released.

**Use of Social Security Number**

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

All students receiving federal financial aid must have a social security number.

**EEO/Title IX/Section 504 Statement**

The University of Tennessee, Knoxville, does not discriminate on the basis of race, sex, color, religion, national origin, age, disability, or veteran status in provision of educational opportunities or employment opportunities and benefits. UT Knoxville does not discriminate on the basis of sex or disability in its educational programs and activities, pursuant to requirements of Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Public Law 92-318, Section 504 of the Rehabilitation Act of 1973, Public Law 93-112, and the Americans with Disabilities Act of 1990, Public Law 101-336. This policy extends to employment by and admission to the University. Inquiries concerning Title VI, Title IX, Section 504, and the ADA should be directed to the Office of Diversity Resources and Educational Services (DRES); 1818 Lake Avenue; The University of Tennessee, Knoxville; Knoxville, TN 37996-3650; or telephone (423) 974-2498 (V/TT). Charges of violation of the above policy should also be directed to DRES.

**Security Information**

In accordance with the Tennessee College and University Security Information Act of 1989 and the Student Right-To-Know and Campus Security Act, The University of Tennessee, Knoxville has prepared a report containing campus security policies and procedures, data on campus crimes and other related information. Copies of this report are sent to each employee and student of the University each year. Copies are also made available to each applicant for employment and admission. In addition, a free copy of this report may be obtained by any student, employee or applicant for admission or employment from the Office of the Dean of Students, 413 Student Services Building.
Drug-Free Campus and Workplace

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

It is the policy of the University of Tennessee to maintain a safe and drug-free environment for its students and employees. Therefore, University policy prohibits the unlawful use, manufacture, possession, distribution, or dispensing of drugs ("controlled substances") as defined in the Controlled Substances Act, 21 U.S.C. 801 et seq., and alcohol on University property or during University activities.

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

Aside from any University policy considerations, the use of illicit drugs and/or the abuse of alcohol may be harmful to your health. Some of the health risks associated with such use/abuse are described below.

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

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

ALCOHOL ABUSE HEALTH RISKS
Liver damage--cirrhosis, alcoholic hepatitis
Heart disease--enlarged heart, congestive heart failure
Ulcers and gastritis
Malnutrition
Cancer--of the mouth, esophagus, stomach, liver
Brain damage--memory loss, hallucinations, psychosis
Damage to fetus if pregnant mother drinks alcohol; 31% of suicides are alcoholics

DRUG USE HEALTH RISKS
Overdosing--psychosis, convulsions, coma, death
Long-term use--organ damage, mental illness, malnutrition, death
Casual use--heart attack, stroke, brain damage, death
Needles--infections, hepatitis, AIDS, death
If a pregnant mother uses drugs, her baby can be born addicted or dead.

Policy for the Administration of Graduate Assistantships

PREAMBLE

Programs of graduate study are designed to transform the individual from student to knowledgeable practitioner or professional scholar. When a graduate assistantship is well conceived and executed, it serves as an important instrument to facilitate the desired transformation. The primary goal of an assistantship, then, is to facilitate progress toward the graduate degree. While the student assistant makes progress toward an advanced degree, he or she also receives work experience in a profession under the supervision of a faculty mentor.

The graduate assistant is both student and employee. As a student, the graduate assistant is expected to perform well academically to retain the assistantship. He or she is to be counseled and evaluated regularly by a faculty mentor so as to develop professional skills. As an employee, the graduate assistant is expected to meet teaching, research, and/or administrative obligations. He or she is to work under the supervision of experienced faculty and receive in-service training. In sum, the graduate assistant receives financial support for graduate study by contributing to the teaching and/or research mission of the University. The total responsibility may be greater than that required of other students or staff members, but the opportunities for professional development also are greater for the graduate assistant.

- Tennessee Conference of Graduate Schools

DEFINITION

An assistantship is a financial award to a graduate student for part-time work in teaching, administration or research while pursuing study toward an advanced degree. Appointments are normally on a one-fourth to one-half time basis, and the annual stipend is payable in either nine or twelve monthly installments. In addition to the stipend, Graduate Teaching Assistants, Graduate Teaching Associates, Graduate Research Assistants, and Graduate Research Assistants are entitled to a waiver of fees for the period of appointment in accordance with university policy. University fees include a maintenance fee (required of all students), tuition (additional for out-of-state students) and a program and services fee. The waiver of fees for assistantships applies to maintenance and tuition fees only; it does not include the program and services fee. For Research Assistants the maintenance fee is paid by the granting agency and is in addition to the stipend paid.

Maintenance fees and tuition waivers apply to appointments at a one-fourth time basis or higher.

In this document when graduate assistant is not capitalized (except in headings), reference is to all four types of assistantships at The University of Tennessee, Knoxville.

TYPES OF ASSISTANTSHIPS

It is imperative that each department adhere to the UT Faculty Handbook’s four categories of assistantships. All departmental guidelines should reflect the descriptions provided in the Handbook (1987, p. 40).

Graduate Teaching Assistant

Graduate Teaching Assistants work under the direct supervision of regular faculty members and may be assigned only to duties related directly to instruction. These include such activities as assisting in the preparation of lectures, leading discussion sections, conducting laboratory exercises, grading papers and keeping class records. Assistants may not be given primary teaching or evaluative responsibilities nor should they be given duties to support faculty research or those basically clerical in nature.

In consultation with the supervisor, the Teaching Assistant works to gain teaching skills and an increased understanding of the discipline.

Graduate Teaching Associate

Graduate Teaching Associates are advanced graduate students who have been given primary responsibility for teaching graduate courses, including the assignment of final grades. No other category of graduate assistant may be so charged.

Associates may not be assigned primary responsibilities for teaching and student assessment in courses approved for graduate credit.

Associates must have met the Southern Association of Colleges and Schools (SACS) 18-hour requirement.

Graduate Assistant

Graduate Assistants are appointed to perform various types of duties other than those related directly to teaching or research. Most commonly, these duties relate to supervisory or administrative functions of the University.

Graduate Research Assistant

Graduate Research Assistants perform duties in support of University research, which may or may not relate directly to the students’ thesis/dissertation. A student appointed as a GRA works under the direct supervision of his/her major professor. Research assistantships may be financed through funds from gifts, grants, contracts, state appropriations designated for research, or the University’s Internally sponsored programs. Department Heads are responsible for assuring that GRAs receive ample opportunities to make continuing progress toward their degrees.

WORK ASSIGNMENTS AND RELATED FACTORS

To utilize the four categories of assistantships, the following provisions should be observed:

1. Work assignments for each type of assistantship should be as specific as possible and should be developed to reflect both the needs of the department and each graduate assistant’s obligation to make satisfactory progress in his/her program. Therefore, to the
extent possible an assignment should appropriately reflect teaching hours, office hours, to be spent performing research or other specified tasks. Such specifications should be provided in writing at the time the offer is made. In situations where the work assignment cannot be specifically described or must be changed from an initial assignment, the graduate assistant should be clearly informed before agreeing to, or continuing in, the assignment.

An important part of each graduate assistant’s work assignment is the fostering of professional development. Such development plus variations in departmental needs may result in differences in number of hours per week for carrying out assignments. Thus, weekly work assignments, when specified, are done so in terms of averages. For a one-fourth time appointment, the graduate assistant’s normal work time should not exceed 10 hours per week. For a one-half time appointment, the average number of hours should not exceed 20 hours per week. Appointments exceeding 50% must have prior approval of the Graduate School. The normal number of hours for conducting an assignment should be mutually understood by the graduate assistant and immediate supervisor. For percentage efforts not covered by those appointments above, the normal work hour per week will be prorated.

2. A one-half time graduate assistant in each of the four categories of assistantships normally should enroll for 6-11 semester hours of coursework. A one-fourth time graduate assistant in each of the four categories of assistantships normally should take 9-13 semester hours. Exceptions to the above must have prior approval of the Head of the student’s academic home unit. A student on a one-half time assistantship who takes at least six semester hours will be considered full-time.

The student’s academic home unit is responsible for implementing these policies, regardless of the assignment or responsible account. It is therefore essential that the home unit be notified by any other unit employing the student of any assistantship awarded at the time of its initiation or renewal. The academic home of a graduate student who has not declared a major is the Graduate School.

QUALIFICATIONS OF GRADUATE ASSISTANTS

Graduate assistants must be currently enrolled in the Graduate School (as fully-admitted degree-seeking students, provisional students, non-degree students, or transient graduate students). The Southern Association of Colleges and Schools (SACS) 18-hour requirement must also be met.

SACS Requirement

Regulations specifically addressing the 18-hour requirement are excerpted from Section 4.8.4 of the SACS publication, Criteria for Accreditation, (Atlanta, 1995, pp.47-48) and read as follows:

[Graduate teaching assistants] who have primary responsibility for teaching a course for credit and/or for assigning final grades for such a course, and whose professional and scholarly preparation does not satisfy the provisions of Section 4.8.2 [which relate to exceptions] must have earned at least 16 graduate semester hours in their teaching discipline, be under the direct supervision of a faculty member experienced in the teaching discipline, receive regular in-service training, and be evaluated regularly.

The above requirements do not apply to graduate teaching assistants who are engaged in assignments such as laboratory sessions, teaching physical education activities, attending or helping prepare lectures, grading papers, keeping class records, and conducting discussion groups.

Implementation of the SACS 18-hour Requirement at UTK

The appropriate Department Head has responsibility for certifying that the 18-hour requirement is met either through coursework or by documentation that the graduate assistant meets the requirement as an exception (e.g., experience in a performing arts). The Dean and Department Head must sign the appropriate form (APR FORM 1-89) that is attached to the PAF form. This is forwarded to the Personnel Office. Exceptions should be noted on this form, but a memo and appropriate documentation should be forwarded to the Graduate Office, 404 Andy Holt Tower.

COMPETENCY IN ENGLISH

The University of Tennessee requires all who teach to be competent in spoken English. The specific policy, as it relates to graduate students who teach, is as follows. Since a certain level of competency with English as a spoken language is necessary for effective communication and teaching, all Graduate Teaching Assistants and Graduate Teaching Associates whose first language is not English are required to demonstrate an appropriate level of comprehensibility for classroom teaching by taking the SPEAK Test administered by the Learning Research Center. The Test of Spoken English (TSE) may be taken in lieu of the SPEAK Test. The results of this test will be communicated by the Learning Research Center to the appropriate department to be used in determining the extent of instructional or other duties assigned the Graduate Teaching Assistants or Graduate Teaching Associates. Suggested modes of remediation will be given to the department and graduate student when appropriate.

New international students who have been offered an appointment as Graduate Teaching Assistant or Graduate Teaching Associate will take the TSE test after their arrival at UTK, and the results of the test will be used to determine the nature of their assignment. The student who has already taken the TSE and received acceptable scores may be excused from the requirement of taking the SPEAK test. Validation of competence in communicating with students in English is required for all who are responsible for working with students. Deans, Department Heads, and Directors are responsible for validating such competence, using the appropriate university form (APR FORM 1-89).

RIGHTS/RESPONSIBILITIES OF GRADUATE ASSISTANTS

1. As specified in the Personnel Policies and Procedures Manual (Section 100 105-Pr3, p2), "A student employee is one whose primary function is that of enrollment in an academic program." Thus, for all graduate assistants must be satisfactory progress in their scholastic program. At the same time, acceptance of an assistantship is predicated on the belief that satisfactory progress can be concurrently achieved in work assignments and scholastic programs. Collaborative efforts between graduate assistants and their supervisors should be focused on the goal of satisfactory performance in both these areas.

2. In cases where graduate assistants feel that they have a legitimate complaint about any aspect of carrying out their assignments (work hours, duties assigned, work conditions, etc.), they have a right to pursue all established channels to resolve the conflict. In the order that follows, the student should speak to his/her immediate supervisor, the appropriate Department Head, the appeals committees in the home unit or college, and the Dean of the College/School involved. If the student feels that a resolution should be sought beyond the Department/College level, the Graduate School should be contacted. The Graduate School will establish procedures outlined in the Graduate Council Appeals Procedure and/or Hilltops.

3. Graduate assistant’s benefits as employees of the University of Tennessee, in addition to fee waivers as explained elsewhere, include workers’ compensation as defined in the Personnel Policies and Procedure manual, and employee benefits under employees’ status. The specific wording reads, “Employees so designated [as student employees] receive no benefits other than statutorily required payments which include Workers’ Compensation.” (Section 100 105-Pr2-3).

4. Graduate student assistantship appointments (Graduate Assistants, Graduate Teaching Assistants, Graduate Teaching Associates and Graduate Research Assistants) are of two types: “academic year” and “twelve month or other.” Students on academic year appointments for the Fall and Spring terms receive 12 equal monthly payments for the 9 months of service and a waiver of fees for three terms (including the Summer). Students appointed to an academic year appointment beginning in the Spring term have the option of receiving 7 equal monthly payments for the January-July period or 6 equal payments for the February-July period. In both cases a fee waiver is provided for Spring and Summer terms. Graduate students on “academic year” appointments have no assistantship responsibilities in the Summer term. Students appointed to “12 month or other” appointments receive equal monthly payments for the months of the appointments and have assistantship responsibilities for the full period of the appointment. For these appointments a waiver of fees is provided only for those terms included within the appointments (i.e., a waivable of fees for the Summer term requires an appointment which encompasses the Summer term in its entirety.) In some situations, a graduate assistant may be appointed for a period shorter than a year (e.g., a semester). Graduate assistants who are performing satisfactorily are normally reappointed up to the maximum time limit as stated below. In situations where the demands of the department do not call for a job to be continued, reappointment may not be made. In cases where a department has a rotational plan for assistantships, graduate assistants likewise may not be reappointed.

In all cases of appointment and reappointment, the supervisor is responsible for notifying the graduate assistant as early as possible.
When an assistantship is not to be renewed, the graduate assistant should be notified in advance. In most cases, this notice must be given no later than one month prior to the end of the appointment. Specific reasons for not renewing the contract should be given (e.g., discontinuation of the program or grant, significant neglect of duty, unsatisfactory academic performance or progress toward a degree, non-compliance with university policies, etc.). In cases where an assistantship is for one year only, the student should be told this at the time of appointment. In some circumstances, graduate assistants may be given a conditional appointment such as an appointment in which funding of a grant is pending.

The maximum number of years that a graduate assistant can be appointed to an assistantship is three years as a master's student, five years as a doctoral student, or eight years in doctoral programs in which students enter with a baccalaureate degree only. Some units may have maximum time limits that are less than those stated above. Requests for an extension beyond the maximum terms here specified must be made in writing by the academic unit to the Associate Vice Chancellor and Dean of the Graduate School.

5. As students, graduate assistants' rights and responsibilities are defined in the Faculty Handbook section on Student Rights and Responsibilities and the Student Rights and Responsibilities section of Hilltopics. Additional rights and responsibilities of graduate students are found on the student's copy of the admission status form.

EVALUATION/SUPERVISION OF GRADUATE ASSISTANTS

Departments employing graduate assistants will conduct an annual evaluation of each assistant. The results of the evaluation are made available to the assistant and placed in the student's academic file. Appropriate follow-up also should occur. The evaluation, review with the assistant, and follow-up should focus not only on assistant-related work being done but should be preparatory for future employment, thus providing professional growth. In most cases, a graduate assistant's supervisor shares results of the evaluation with the assistant and takes appropriate follow-up action.

In cases where corrective measures must be taken to remediate deficiencies, the graduate assistant should be notified in writing of recommended action to solve the problem(s). Situations leading to dismissal for cause must be described in writing to the assistant being dismissed. This letter should be written by the supervisor with a copy to the department head. In cases where the assistant feels that university-related factors (facilities, working conditions, improper supervision, etc.) have had negative effects on specific aspects of job performance, a letter to the supervisor would be appropriate.

The immediate supervisor for each graduate assistant is to be identified as early as possible, usually no later than four weeks prior to the commencement of the assistantship. If there will be more than one supervisor per graduate assistant, the specific tasks to be performed for each and the role each supervisor will play (e.g., which one will initiate the evaluation process) should be identified.

The chain of command within each department should be clearly indicated to graduate assistants. Thus, each graduate assistant should know that the immediate supervisor is the person to whom first contact is to be made in job-related questions/directions; followed in turn by a general departmental/school/college supervisor of graduate assistants (where one exists), the appropriate project director, department head, dean of the college, and Graduate School officials.

ORIENTATION/TRAINING OF GRADUATE TEACHING ASSISTANTS AND GRADUATE TEACHING ASSOCIATES

There must be a thorough, systematic plan of orientation and training of all Graduate Teaching Assistants and Graduate Teaching Associates. Such orientation and training may be done at either the department, college, or university level. It is the responsibility of each supervisor to see that his/her graduate assistant is provided appropriate orientation/training.

There are several kinds of training that should occur beyond the initial orientation/training. Such training is usually specific to a particular job function. The Learning Research Center provides, for example, training and support services for Graduate Teaching Assistants and Graduate Teaching Associates who will be teaching at the University of Tennessee, Knoxville. Presented in several formats, this training includes attention to styles of learning and other student characteristics, communicating in the classroom, leading discussions, lecturing, directing laboratory work, using media and computers, designing syllabi, constructing and using tests, grading, evaluating courses and instructors, and similar topics. Special programs are offered for International GTAs. Evaluation and consultation services are also available through the Learning Research Center. A Handbook for New Instructors and a newsletter are made available to all GTAs. Supervisors of GTAs are responsible for notifying them about these services and about departmental and college policies on attendance at these programs and the use of these services.

ORIENTATION/TRAINING OF GRADUATE ASSISTANTS AND GRADUATE RESEARCH ASSISTANTS

Graduate Assistants and Graduate Research Assistants must also participate in a thorough, systematic orientation and training program. This training is usually at the department or college level, but the Office of Research Administration at the University level is available to assist with programs designed to help train the Graduate Research Assistant in various aspects of the job to teach.

One type of specialized training is "on-the-job." Graduate assistants who work in laboratories may receive initial orientation, followed by work experiences which constitute training. In such instances, the "on-the-job" training period should be clearly known by the student assistant.

ACCEPTING/DECLINING AN ASSISTANTSHIP

The University of Tennessee, Knoxville adheres to the following resolution by the Council of Graduate Schools:

Acceptance of an offer of financial aid (such as graduate scholarship, fellowship, traineeship, or assistantship) for the next academic year by an actual or prospective graduate student completes an agreement which both student and graduate school expect to honor. In those instances in which the student accepts the offer before April 15, and subsequently desires to withdraw, the student may submit in writing a resignation of the appointment at any time through April 15. However, an acceptance given or left in force after April 15 commits the student not to accept another offer without first obtaining written release from the institution to which a commitment has been made. Similarly, an offer by an institution after April 15 is conditional on presentation by the student of the written release from any previously accepted offer. It is further agreed by the institutions and organizations subscribing to this Resolution that a copy of this Resolution should accompany every scholarship, fellowship, traineeship, and assistantship offer.

Student Services

Black Cultural Center

The Center is the focal point of the University's effort to retain African-American students and to provide awareness and recognition of the accomplishments of African-Americans. The Center fulfills this role through a number of services and programs. These include free tutoring, group study sessions, workshops, a collection of African-American books and magazines and a computer lab. Typical of its cross-campus work is sponsorship of Black History Month activities, the Martin Luther King Jr. Celebration and the Harambee Festival which promotes awareness of African-American contributions.

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

Career Services

Career Services, located in Dunford Hall, 974-5435, is a university-wide department providing career-related assistance to UT Knoxville students through a wide range of programs and services. Included in the services offered are a Career Carnival, an annual career fair providing opportunities to speak informally with representatives from 80-80 different companies about their entry level jobs and hiring practices; a Graduate School Information Day, an annual fair to which a number of graduate schools provide information for advanced study; a nonprofit career fair involving representatives from numerous area nonprofit organizations; employer information which includes types of majors sought, job descriptions, career profiles, annual reports and other pertinent information for hundreds of companies that recruit at UTK; and workshops providing instruction in skills and tactics for successful interviewing, resume preparation, business and dining etiquette, and other topics.
On-campus interviews are scheduled during the year, and require an orientation workshop for registration. The interviews are scheduled each year which include approximately 275 companies, government agencies and school systems. Two job newsletters are published biweekly, one for positions in education and one for business, industry, and government. Career Services also administers a Credentials Service for doctoral candidates. Setting up a credential file is a simple process involving the submission of a resume and academic transcript, along with letters of recommendation. An alumni placement service offers assistance in the job search after graduation. All written resumes are referred directly to employers every year to assist students and recent alumni in their job-seeking activity.

Career Services registrants have access to video conference interviewing, resume access via the World Wide Web, and state-of-the-art forms of placement assistance.

Center for International Education

The Center for International Education (CIE), 1620 Melrose Avenue, telephone 974-3177, promotes and supports all aspects of international education and international exchange at UT Knoxville, both for American students and faculty and for students and faculty from other countries. The administration of official linkage agreements between UT Knoxville and institutions of higher education in other countries is coordinated by CIE.

American students: CIE provides information and advice about study-abroad options open to UT Knoxville students, including the exchange programs it administers between UT Knoxville and universities in thirty countries on six continents. CIE coordinates campus administration of such international grants and scholarships for students as the Fulbright, Rhodes, and Marshall programs, and it provides information about other sources of funding for overseas study and research, including the Rotary Foundation, St. Andrews, and German Academic Exchange Service (DAAD) grants. Within its library on study, work and travel abroad, CIE has information about student summer/job programs in nine countries.

International students and scholars: CIE provides information and assistance in matters relating to United States visa regulations, to UT Knoxville requirements for international students, and to UT Knoxville academic policies and registration procedures. It publishes The Link, a newsletter for UT Knoxville's international students and scholars and International Perspective for faculty and professional staff, and administers the insurance policy required of all international students at the University. International student advisors are available to discuss academic and personal concerns.

Orientation programs conducted at the beginning of each term facilitate adjustment to the campus and community, as does the international student orientation camp prior to the fall term.

The new International House, 1623 Melrose Avenue, is CIE's on-campus social, recreational, and programming center that serves as a meeting place for international and U.S. students, faculty and staff.

International students seeking admission to UT Knoxville should write directly to the Office of Graduate Admissions and Records.

Child Care

The Child Development Laboratories, operated by the Child and Family Studies department within the College of Human Ecology, currently offer child care programs for young children ages six weeks to five years. The Child Development Laboratories are accredited by the National Academy of Early Childhood Programs, a division of the National Association for the Education of Young Children.

Dining Services Facilities

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

Room and board meal arrangements offer the best combination of balanced, nutritious meals, carefully planned and served at a reasonable charge to the student. Meal plan arrangements are Seven Star Dining (seven day meal plan, Monday-Sunday noon), and Ten Star (10 meals per week, Monday-Sunday with $300 per semester in a debit bonus account). For students not participating in a meal plan, meals can also be obtained from cafeterias operated on a cash basis.

The Department of Dining Services offers additional dining options. (1) The AllStar account debit plan where students make a minimum deposit of $300, receive a bonus, and can make purchases at any Dining Services location. (2) The AllStar Plus Debit Account requires a minimum deposit of only $10.00. There is no bonus with this plan regardless of the size of the deposit. AllStar Plus can be used at all campus dining facilities PLUS laundries, UT Bookstore, and selected vending areas as well as other participating campus locations. (3) The Dining Club account works just like a charge card. Money is deposited in advance, and no bonus is associated with this account. Food may be purchased at any Dining Services location, and monthly statements are sent to students or parents.

For the late evening snack or morning coffee break, popular spots on campus are the bakery outlets, delicatessens and grill operations. Students are invited to take advantage of the special “theme” meals offered in the University dining facilities throughout the year. For additional information, offices are located at 405 Student Services Building, (423) 974-4111.

Disability Services

Disability Services (DS) seeks to eliminate the barriers that students with disabilities encounter and to work with them to achieve and maintain individual autonomy. The program's primary objective is to provide these students with access to the campus, academic, social, cultural, and recreational opportunities of the University. Prospective students are encouraged to contact DS personnel so that they can be assured that the campus facilities and services are adequate to meet their needs. The staff can be of service to the students to the extent that their individual needs are made known. Contact with the students prior to registration enables DS staff to better access the need for interpreters, readers, accessible facilities, and other support services. Van service is also provided to those individuals with mobility limitations, whether permanent or temporary. Documentation of disability from an attending physician or the Student Health Center is required.

Participation in the services program is on a voluntary basis; confidentiality is maintained. Students desiring any services are encouraged to contact the Office of Disability Services so that necessary arrangements can be made. The office is located at 414 Student Services Building.

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

Graduate Student Association

As one of the five branches of the Student Government Association, the Graduate Student Association provides a vehicle for responsible and effective student participation in the organization of graduate study at UT Knoxville. Each spring term, general campus elections are conducted to elect members of the GSA. The Graduate Student Association officers and representatives are elected from the graduate programs. Offices of the GSA are located in room 541 University Center. For more information, stop by the office or call (423) 974-2577.

Hearing and Speech Services

The Hearing and Speech Center, located at the corner of Yale Avenue and Stadium Drive, offers complete diagnostic and treatment services to all University students with speech and language disorders/differences and/or hearing disorders. Services are available to any student who has paid the full University Programs and Services Fee or, if part-time, any student who has paid the optional student health services fee.

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

Housing

UNIVERSITY APARTMENTS

The University has provided excellent apartment facilities in several locations for married students with or without families. Apartments not needed to house married students are made available to single graduate and professional students. Information and application for these facilities may be secured from the Office of Rental Properties, Stadium Hall.

RESIDENCE HALLS

The Department of Residence Halls provides housing on-campus for single graduate students. Graduate students are given the same priority for housing in residence halls as undergraduate students. All of the residence halls are conducive to academic achievement and personal development. However, many graduate students choose to live in Melrose or the Apartments Residence Halls, since they remain open between the Fall and Spring semesters. Melrose Hall is arranged into smaller communities of six to ten students with personal responsibility emphasized. The Apartments Residence Hall provides apartment-style living for four students. A graduate student wing has been reserved in the Apartment Residence Hall. It is the responsibility of each resident to maintain the apartment to University standards. Applications and further information can be obtained from the Department of Residence Halls, 405 Student Services Building.

A limited number of Assistant Hall Director positions are available for single graduate students. This position assists the Hall Director in coordinating and supervising all aspects of the hall operation. This is a live-in position with part-time responsibilities on a nine-and-a-half month contract. For additional information, contact the Department of Residence Halls at 974-2571.

OFF-CAMPUS HOUSING

A list of off-campus housing available to students is provided by the Off-Campus Housing Office, 344 University Center. The University does not inspect or approve these facilities. The terms and conditions for the rental of off-campus housing are between the student and the landlord. Students living in off-campus housing are expected to observe the same rules of conduct and standards applicable to all students.

Minority Student Affairs

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

Housed within the Black Cultural Center, the office furnishes information about educational, employment and financial assistance opportuni-
1. Staff and students with current UT Knoxville motor vehicle registration tags in their vehicles may park in any unreserved area (except those around residence halls) between the hours of 10 p.m. and 7 a.m., Monday through Friday, and 12 noon Saturday to 7 a.m. Monday.

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

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

4. Overnight parking is not permitted in the Student Commuter Parking Areas nor in the Student Aquatic Center Parking Area.

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

A University Traffic and Parking Authority determines parking policy, traffic regulations, and fees. This information is published each year in the "University Traffic and Parking Regulations", and is available at registration at the Parking Services Office, 1411 White Avenue, at the Campus Information Center at Circle Park, and at the vehicle point of registration.

Women's Center

The Women's Center provides essential informational and referral services to UT Knoxville students and faculty. The library's specialized collection provides books, journals, and brochures about issues and concerns of women from both a current and historical perspective. Information is available on a variety of topics including racism, violence against women, spirituality, and sex roles. The Women's Center is located in 301 University Center. If you need more information or are interested in volunteering, please call 974-1029.
COLLEGES
College of Agricultural Sciences and Natural Resources

John Riley, Dean
Gary Schneider, Associate Dean

Departments
- Agricultural and Extension Education
- Agricultural Economics and Rural Sociology
- Agricultural Engineering
- Animal Science
- Entomology and Plant Pathology
- Food Science and Technology
- Forestry, Wildlife and Fisheries
- Ornamental Horticulture and Landscape Design
- Plant and Soil Science

The College of Agricultural Sciences and Natural Resources began in 1869 when the University was designated as Tennessee's Federal Land-Grant Institution. As such, the University was enabled for the first time to offer instruction in agriculture. Graduate instruction began as early as 1889. The College is not only an academic unit of The University of Tennessee, Knoxville campus, but also (with the Agricultural Experiment Station, the Agricultural Extension Service and the College of Veterinary Medicine) one of the four administrative units of The University of Tennessee's Institute of Agriculture.

There are many shared resources and positive interactions between various units of the Institute. For example, most of the faculty in the College of Agricultural Sciences and Natural Resources hold joint appointments in the Agricultural Experiment Station and are actively involved in significant basic and applied research in agriculture and the associated natural resources. On campus and field research laboratories are utilized in the instructional programs of the College; extension and research activities provide many students excellent part-time job opportunities. Very significant is the fact that the Agricultural Experiment Station provides more than 100 graduate research assistantships to support graduate students.

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

Graduate programs of the College of Agricultural Sciences and Natural Resources are designed to prepare men and women for positions of leadership in industry, state and federal government, teaching, research, and extension.

The graduate student is expected to demonstrate a thorough knowledge of the subject matter in his/her specialized field of study and its relationship to the sociological, economic, and environmental impact on society. The student must demonstrate the ability to plan, conduct, analyze, and report original research. Emphasis is given to intellectual growth and the development of scholarly habits of study, reasoning and analysis so that the graduate will continue to grow and develop professionally throughout his/her career.

MASTER OF SCIENCE PROGRAMS

Programs of graduate study leading to the Master of Science degree are offered through all departments in the College of Agricultural Sciences and Natural Resources. The graduate program may be entirely in one major subject or may include subject matter areas related to the major.

Both majors and minors are available in Agricultural Economics, Agricultural Engineering, Agricultural Extension Education, Agricultural Engineering Technology, Animal Science, Entomology and Plant Pathology, Food Technology and Science, Ornamental Horticulture and Landscape Design, and Plant and Soil Science. Majors only are available in Forestry and Wildlife and Fisheries Science, and minors are available in General Agriculture and Rural Sociology. The minor in General Agriculture requires 12 hours of coursework. A complete listing of majors is shown on the Majors and Degree Programs Chart.

DOCTORAL PROGRAMS

Graduate study leading to the Doctor of Philosophy degree in Animal Sciences, Agricultural Economics, Agricultural Engineering, Food Technology and Science, and Plant and Soil Science is offered in the college.

College of Architecture and Planning

Marleen Davis, Dean
William J. Lauer, Associate Dean
David A. Patterson, Acting Director
Jon P. Coddington, Graduate Program Head, Architecture

Schools
- Architecture
- Planning

Facilities for Research and Service
- Center for Research, Service and Inquiry

The College of Architecture and Planning was formed in 1990 with the union of the School of Planning and the School of Architecture into a new academic unit. Both schools are committed to preparing students to work with the planning, design or management of our built environment. The college provides an administrative umbrella for academic programs which share many common objectives and methods, yet retain distinctive identities with their professions.

Most states require that an individual intending to become an architect hold an accredited degree. There are two types of degrees that are accredited by the National Architectural Accrediting Board: (1) The Bachelor of Architecture, which requires a minimum of five years of study, and (2) The Master of Architecture, which requires a minimum of three years of study following an unrelated bachelor's degree or two years following a related preprofessional bachelor's
degree. These professional degrees are structured to educate those who aspire to registration/licensure as architects.

The four-year, preprofessional degree, where offered, is not accredited by NAAB. The preprofessional degree is useful for those wishing to build a foundation in the field of architecture, as preparation for either continued education in a professional degree program or for employment options in architecturally related areas.

The UT Knoxville School of Architecture offers a program of professional studies which prepares its graduates for the practice of architecture. This is accomplished through a five-year Bachelor of Architecture degree program or through the Master of Architecture degree program for students already having a baccalaureate degree.

The School of Planning offers a program of studies which prepares its graduates for professional practice in urban or regional planning. This is accomplished through a two-year master's degree program. The School also manages the undergraduate program in Urban Studies which awards a Bachelor of Arts degree.

The faculty and students of both units cooperate in a variety of ways, including joint field projects, guest lectures, service on thesis projects, etc. This expands the resources of talent available to students. The college also has a research and public service arm, the Center for Research, Service and Inquiry. The offices of the dean and other college staff are located at 217B Art and Architecture Building.

College of Arts and Sciences

Lorman A. Ratner, Dean
Charles O. Jackson, Associate Dean
Lorayne W. Lester, Associate Dean
Clifton Woods, III, Associate Dean

Departments
- Anthropology
- Art
- Audiology and Speech Pathology
- Biochemistry and Cellular and Molecular Biology
- Botany
- Chemistry
- Classics
- Computer Science
- Ecology and Evolutionary Biology
- English
- Geography
- Geological Sciences
- Germanic and Slavic Languages
- History
- Life Sciences
- Mathematics
- Microbiology
- Music
- Philosophy
- Physics and Astronomy
- Political Science
- Psychology
- Religious Studies
- Romance and Asian Languages
- Sociology
- Speech Communication
- Theatre

Facilities for Research and Service
- Center for Applied and Professional Ethics
- Center for Environmental Biotechnology
- Center for Psychoanalysis and the Humanities
- Center for Quaternary Studies of the Southeastern U.S.
- Center for the Study of War and Society
- Child Behavior Institute
- Forensic Anthropology Center
- Hearing and Speech Center
- Institute for Applied Microbiology
- Institute for Resonance Ionization Spectroscopy
- Joint Institute for Heavy Ion Research
- Psychological Clinic
- Science Alliance
- Social Science Research Institute

The University of Tennessee began as a liberal arts institution. Before the turn of the century, less emphasis was placed on the liberal education. However, the liberal arts continued to thrive, emerging as a college in 1904. Thus, the College of Liberal Arts (now known as the College of Arts and Sciences) is one of the oldest established colleges in the University.

The College of Arts and Sciences consists of a wide array of academic disciplines and interdisciplinary programs. The central purposes of a liberal education include the encouragement of intellectual tolerance, a dedication to the quest for knowledge as a worthwhile goal in and of itself, and the cultivation of a responsible, creative individual mind. These qualities enable one to develop an ability to reason and to express oneself clearly, an incentive to absorb new knowledge, and a competence to confront the uncertainties of human experience. Faculty research and creative activity is the foundation on which education in this College is built. As a result of that endeavor, the lives of students are enriched and the world's body of knowledge grows.

The College of Arts and Sciences offers programs in twenty-eight academic disciplines leading to seven advanced degrees: M.A., M.S., M.F.A., M.Math., M.Music, M.P.A., and Ph.D. See the Majors and Degree Programs chart for specific majors and degrees.

GENERAL INFORMATION

Foreign Study Courses
Foreign study courses offered in some departments of the college provide an opportunity to undertake independent study outside the United States. Prior to departure the student must have a plan of study approved by the department head and a supervising faculty member of the department concerned. Credit will be given only upon fulfilling all requirements set by the department and may vary from 1-15 hours. The maximum credit that may be applied toward a degree in the college is established in each individual case by the department in which the student is working.

Off-Campus Study
Recognizing that learning is not restricted to formal classroom situations, the college provides for students to earn credit toward graduation for approved off-campus study. Such study may be undertaken only with prior approval of the faculty member and the department concerned. It may include certain kinds of work experiences, community involvement, or political campaigns. Credit per semester will vary from 1-15 hours. The maximum credit that may be applied toward a degree in the college is established in each individual case by the department in which the student is working.

Independent Study
Certain educational goals may best be met through independent study by an individual under the direction of a faculty member. Students who wish to do such independent work should obtain the approval of the faculty members and the departments concerned prior to embarking upon their study. Credit per semester will vary from 1-15 hours. The maximum credit which may be applied toward a degree in the college is established in each individual case by the department in which the student is working.

College of Business Administration

C. Warren Neel, Dean
Michael J. Stahl, Associate Dean
Jan Williams, Interim Associate Dean
William Fox, Director, Center for Business and Economic Research
John E. Riblett, Director, Management Development Center
Scott Buechler, Director, Graduate Business Programs

Departments
- Accounting and Business Law
- Economics
- Finance
- Management
- Management Science
- Marketing, Logistics and Transportation
- Statistics

Facilities for Research and Service
- Center for Business and Economic Research
- Management Development Center

The College of Business Administration was originally the School of Commerce, dating back to 1919. Commerce was changed to Business in 1937 and gained college status in 1947. The college-wide MBA program was approved in 1966 and the doctoral program in 1971. Graduate programs of the College of Business Administration are designed to prepare men and women to assume positions in the increasingly complex world of business and industry, teaching and research, and government.

Viewing the business firm as operating in dynamic social, political, and economic environments that demand leaders capable of dealing with innovation and rapid change, the College places central importance on development of students' thought processes and leadership potential. Emphasis is focused on flexibility of mind, receptivity to new ideas, and capacity to adapt one's reasoning powers. Our objective is to encourage the student to develop the ability to reason analytically and logically, and to develop a commensurate plan of action. Above all else, we strive to instill the irre-
gressible desire to continue to learn and grow in knowledge throughout the student's life. The College of Business Administration has made a commitment to total quality management by integrating the principles of productivity through quality and statistical process control through the graduate curriculum. Interdisciplinary partnerships are encouraged among academic units in the College, with other University academic units and with the private sector, enhancing the process of inquiry and critical thinking which is crucial to total quality management.

The College of Business Administration is fully accredited by the American Assembly of Collegiate Schools of Business and is associated with other leading graduate schools of business as a member of the Graduate Management Admission Council.

GRADUATE PROGRAMS

The College of Business Administration offers programs leading to five advanced degrees: the Doctor of Philosophy with majors in Business Administration, Economics, and Management Science; the Master of Arts with a major in Economics; the Master of Science with a major in Statistics; the Master of Accountancy; and the Master of Business Administration. The Department of Management and the Department of Psychology in the College of Liberal Arts jointly offer an intercollegiate program in Industrial and Organizational Psychology leading to the Master of Science and Doctor of Philosophy degrees (see Industrial and Organizational Psychology). Also, the Department of Management Science coordinates an intercollegiate program leading to the Master of Science (see Management Science).

The two College-wide programs, the MBA and the Ph.D. in Business Administration, are described in Business Administration, Fields of Instruction. Descriptions of other degree programs are under the appropriate department or program headings.

FINANCIAL ASSISTANCE

A limited number of teaching and other assistantships that require from 10 to 20 hours of service per week are available through the departments of the College. Remuneration includes remission of fees and tuition as well as a monthly stipend. Awards are generally made on the basis of scholarship and performance on the appropriate (GMAT or GRE) admission test. Application forms may be obtained in any of the departments. Information on College-administered fellowships is available from the Office of Graduate Business Programs in the College of Business Administration.

Applications must be received by March 1 for consideration of assistantships and fellowships to be awarded for the following fall term.

College of Communications

Dwight L. Teeter, Jr., Dean
Herbert H. Howard, Associate Dean for Graduate Studies
Roxanne Hovland Marsh, Interim Associate Dean for Undergraduate Studies

 Departments and Schools
 Advertising
 Broadcasting
 Journalism

Facility for Research and Service
 Communications Research Center (CRC)

The College of Communications graduated from the School of Journalism, which was originally located in the College of Business Administration. The master's program began in 1968 under Journalism and was changed to Communications after the School gained College status in 1970. The doctoral program was initiated in 1974.

A chair of excellence was established in 1987 to support a distinguished professorship in science, technology, and medical writing. Communications media are a vital force in today's complex society. Specialization, gaps among segments of society, and the nature of world conflict point to the need for more understanding of how people communicate. Educating men and women in the perceptive understanding of the communications media is a necessity. The graduate programs in the College acquaint students with the nature of communications and prepare them for professional work in many fields.

The College of Communications offers the Master of Science and the Doctor of Philosophy degrees with a major in Communications.

In addition, Communications is available as a minor for students majoring in other departments. Required coursework will be selected after discussion with the major advisor and an advisor from the College of Communications.

The M.S. program is accredited by the Accrediting Council on Education in Journalism and Mass Communication. The College is a member of the Association of Schools of Journalism and Mass Communication and the Broadcast Education Association.

For application forms and other information about the M.S. and Ph.D. programs in Communications, write to the Department of Communications, College of Communications, 426 Communications Building, The University of Tennessee, Knoxville, TN 37996-0347.

College of Education

Richard Wisniewski, Dean
C. Glennon Rowell, Associate Dean for Administrative Services
Thomas W. George, Associate Dean for Student and Academic Services
Carol E. Kasworm, Associate Dean for Research and Technology

Units
 Counselor Education and Counseling Psychology
 Cultural Studies in Education
 Education in the Sciences, Mathematics, Research, and Technology
 Exercise Science
 Holistic Teaching and Learning
 Inclusive Early Childhood Education
 Language, Communication and Humanities Education
 Leadership Studies in Education
 Psychocultural Studies
 Rehabilitation, Deafness, and Human Services
 Sport and Physical Activity

Facilities for Research and Service
 Bureau of Educational Research and Service
 Center for Environmental/Energy/Science Education
 Center for Literacy Studies
 Center for Physical Activity and Health
 Cognitive Enrichment Network Project
 Institute for Assessment
 Institute for Educational Innovation
 Instructional Services Center
 Project INFOE
 Public Schools for Cooperative Research
 Reading Center
 State Testing and Evaluation Center
 Tennessee Internship Consortium in Professional Psychology

Education programs were first offered at the graduate level in 1905 by the School of Education. Through the Summer School of the South, the programs thrived, and the School became a College in 1926. The Ed.D. program was established in 1950, and the college-wide Ph.D. program began in 1979.

The College of Education, as a professional school, promotes critical inquiry, reflection, and social action through interdisciplinary studies. Its graduates are prepared to work in a changing, multicultural world in leadership roles in educational programs and institutions, health and social institutions, and private and corporate sectors. The College is committed to providing lifelong learning for both faculty and students by promoting courses of study that involve students and faculty in academic peer relationships that stress shared responsibility for learning and the discovery of new knowledge. The faculty is committed to research, scholarship, and creative work that results in superior teaching and service to the community and to the professions. The College is committed to work towards equity and economic and social justice within the University community and throughout the broader society.

Beginning in 1981, the faculty of the College of Education initiated planning new approaches to organization, new approaches to working with students, and new approaches to working with colleagues in teaching and the other professions served by the college. The purpose of the restructuring process was to enable the College to better meet the needs of students, faculty, and constituent groups in the 21st century.

As a result of this process, the College, previously organized into seven departments, is now organized into eleven faculty/program units. The College of Education holds membership in the American Association of Colleges for Teacher Education and in the Holmes Group. All certification and degree programs through the doctoral level are fully accredited by the National Council for Accreditation of Teacher Education, the Southern Association of Colleges and Schools, and the Tennessee State Department of Education.

MASTER OF SCIENCE PROGRAMS

On the master's level, professional study may be planned (1) in one of the areas listed on the Majors and Degree Programs chart, (2) in...
The University of Tennessee was one of the first institutions of higher education in the South to offer home economics, with the first class being offered in 1897. Initially called a School of Home Economics, it combined with Agriculture in 1947 to become the College of Agriculture and Home Economics. In 1959, the two colleges became separate units, although they continue to share resources. In 1985 the name was changed to Human Ecology, reflecting its focus on people interacting with their environments.

Graduate study in Human Ecology prepares the student for teaching, research, and public service in colleges and universities or managerial positions in government, business, and industry.

The Master of Science degree is offered with majors in Child and Family Studies, Foodservice and Lodging Administration, Health Promotion and Health Education, Human Ecology, Human Resource Development, Interior Design, Nutrition (including public health nutrition), Recreation and Leisure Studies, Safety Education and Service, and Textiles, Retailing and Consumer Sciences; the Master of Public Health degree is offered with a major in Public Health; the Educational Specialist degree is offered with a major in Vocational Technical Education; the Doctor of Philosophy degree is offered with a major in Human Ecology and concentrations in child development, family studies, health education, human resource development, nutrition science, textile science and consumer environments; and the Doctor of Education degree is offered with majors in Health Education and Human Resource Development. For additional information, contact the Associate Dean of Graduate Studies, College of Human Ecology, The University of Tennessee, Knoxville, TN 37996-1900, (423) 974-5224.

FACILITIES FOR RESEARCH AND SERVICE

The Small Animal Research Lab, housed in the Jessie Harris Building, has received certification by the American Association for Accreditation of Laboratory Animal Care (AAALAC). Renovated in 1986, it has strict environmental controls, an operating theater and diet preparation room.

The College of Human Ecology participates with the College of Engineering in the Center of Excellence for Materials Processing. These research efforts in Textile Science are also supported by the Textiles and Nonwovens Development Center (TANDEC). The Child Development Laboratory (CDL) serves as a research and training facility for students in the College.

Refer to the section on Facilities for Research and Service for additional information.

College of Law

Richard S. Wirtz, Dean
Mary Jo Hoover, Associate Dean
John Soboleski, Jr., Associate Dean

The University of Tennessee College of Law commenced operation in 1890 and has continuously sought to provide high-quality legal education in a university community.

While the principal objective of the college is to prepare students for the private practice of law, its total mission is more broadly conceived. The college exposes students to the legal issues of our society enabling them to develop analytical skills with respect to decisional law and statutes, the ability to communicate effectively their knowledge of the law, an awareness of the historical growth of the law, a knowledgeable appreciation of the interrelationship of law and society, and the ability to use law as an implement of societal control and development. Students are thus equipped to serve their communities not only as advocates and counselors, but as policy makers and active, responsible citizens.

THE PROFESSIONAL PROGRAM

The program of the college has three dimensions: teaching and learning, research into and appraisal of our legal systems and institutions, and service to the community.
plays a significant role in the college as a modern law center.

The teaching and learning element of legal education at the college involves a cooperative classroom interaction between faculty and students in the analytical study of a host of questions and problems found in today's legal profession. These involve decisional law, statutory interpretation, administrative regulation, techniques of trial and appellate advocacy, and the roles and responsibilities of the lawyer in advising and representing clients. While proper consideration is given to the problems of Tennessee law, the course of study is conducted with a view toward providing an awareness and understanding of the regional and national perspective to prepare students for service in any state.

The college is also directly involved in providing service to the community. A major element of public service is centered in the Legal Clinic where students, under the guidance of skilled and experienced licensed practitioners, provide legal services to clients. Additionally, through research, consultation, and other services to legal institutions and groups within the state, the college seeks to participate in the development and improvement of the society in which its students may eventually practice law. In combination, the direction and objectives of the college lead to the development not of a narrow technician, but of a student of the law with the perspective, breadth, and understanding necessary to accomplish the many tasks assigned by society to the legal profession.

GRADUATE PROGRAM

Two dual degree programs are available in conjunction with the College of Law: the J.D.-MBA program with the College of Business Administration and the J.D.-M.P.A. program with the Department of Political Science. Refer to details under the respective field of instruction. Graduate students in other disciplines may also take law courses upon approval of the College of Law and the major professor. See Law Under Fields of Instruction.

College of Nursing

Joan Crescia, Dean
Martha Alligood, Director of Master’s Program
Sandra P. Thomas, Director of Doctoral Program
Mary Anne Modrcin-McCarthy, Director of Undergraduate Program

Facilities for Research and Service

Center for Nursing Practice

Center for Nursing Research

The College of Nursing was established in July 1971. The master’s program was initiated in 1976 and approval for the doctoral program was granted in 1986. More specific information about the programs may be obtained under Nursing, Fields of Instruction, or by contacting the Director of M.S.N. or Ph.D. Program. The University of Tennessee College of Nursing, 1200 Volunteer Blvd., Knoxville, TN 37996-4110, (423) 974-4151.

MASTER OF SCIENCE IN NURSING

The general purpose of the M.S.N. program is to prepare nurses at the graduate level to function as advanced practitioners, teachers, or managers in a variety of health care or educational settings. The program is accredited by the National League for Nursing and is unconditionally approved by the Tennessee Board of Nursing. Students admitted to the program select a concentration in adult health nursing, family nurse practitioner, mental health nursing, nursing administration, and nursing of women and children.

THE DOCTORAL PROGRAM

The College of Nursing offers a doctoral program leading to the Ph.D. in Nursing. The doctoral program prepares nursing scholars capable of integrating research, theory, and practice into their roles as researchers, educators, and/or administrators. The unified program offered jointly with The University of Tennessee, Memphis College of Nursing enables students to complete all or part of the program at either site. The dissertation must be completed in its entirety at one site.

College of Social Work

Eunice Shatz, Dean
William J. Bell, Associate Dean, Nashville
Jeanette Jennings, Associate Dean, Knoxville
Hisashi Hirayama, Associate Dean, Memphis
Paul M. Campbell, Director, Office of Social Work Research and Public Service

Charles Glisson, Chair, Ph.D. Program

The College of Social Work began as the Nashville School of Social Work, founded in 1942 under the auspices of Vanderbilt University, Scarritt College, and George Peabody College. It joined the University of Tennessee in 1951. By 1974 the three branches, located in Nashville, Memphis and Knoxville, offered the two-year master’s program. The doctoral program was inaugurated in 1980. In 1986 the B.S.S.W. program was added, and the School achieved college status.

The University of Tennessee College of Social Work is the only graduate professional social work education program in Tennessee and offers the full continuum of social work education degrees at the baccalaureate, master’s and doctoral levels.

Social work is a helping profession which focuses on providing skilled intervention in the prevention and amelioration of individual and societal problems. It is the purpose of the College to provide an education which fosters growth in both individual and career development.

GRADUATE PROGRAMS

The two-year program (thesis or non-thesis option) leading to the Master of Science in Social Work is fully accredited by the Council on Social Work Education and is offered on all three campuses. The foundation curriculum of the Ph.D. program is available only in Knoxville. A special bulletin describing facilities, admission, fees, and degree requirements is available from the College of Social Work, Henson Hall, Knoxville, TN 37996-3333.

College of Veterinary Medicine

Michael Shires, Dean
James J. Brace, Associate Dean

Departments

Animal Science-Veterinary Medicine
Comparative Medicine
Large Animal Clinical Sciences
Microbiology-Veterinary Medicine
Pathology
Small Animal Clinical Sciences

The College of Veterinary Medicine, established in 1974, offers a professional curriculum leading to the Doctor of Veterinary Medicine (D.V.M.) degree. The college offers graduate studies leading to the Master of Science and the Doctor of Philosophy degrees. Residency training programs in the various clinical specialties are also offered.

The primary objective of the college is to enable students to attain essential information, skills, attitudes and behaviors to meet the varied needs of society and the veterinary profession. The professional curriculum provides an excellent basic science education in addition to training in diagnosis, disease prevention, medical treatment, and surgery. Graduates are qualified to pursue careers in many facets of veterinary medicine and related health professions.

About two-thirds of the veterinarians in the United States are employed exclusively in pet or companion animal practice. A growing number are concerned with the health problems of zoo animals, laboratory animals, wildlife, and aquatic species. A number of veterinarians are involved in the health care of food and fiber animals ensuring the supply of safe and healthy food.

Veterinarians also find rewarding careers in the U.S. Public Health Service, the Armed Forces, and in state, county, or local health agencies. A number of veterinarians are employed by the U.S. Department of Agriculture and by state departments of agriculture for important work in livestock disease control, meat and poultry inspection, serum and vaccine production, and the protection of our country against the importation of foreign animal diseases.

Excellent research opportunities exist for veterinarians-researchers directly benefiting animals and research conducted with animals which benefit humans. Such opportunities are available at colleges and universities and with governmental agencies, private research institutions and biological and pharmaceutical companies.
FIELDS OF INSTRUCTION
FIELDS OF INSTRUCTION
Fields of Instruction

Accounting and Business Law
(College of Business Administration)

**MAJORS**

Accounting ............................................ M.Acc.
Business Administration .............................. Ph.D.

Keith G. Stange, Head

**Professors:**

Dittrich, Norman E. (Emeritus), CPA, Ph.D. .................... Ohio State
Fisher, Bruce D., LL.M. .......................... George Washington
Herring, Hartwell C., III, CPA, Ph.D. .... Alabama
Kiger, Jack E. (Warren L. Slagle Prof. of Acct), CPA, Ph.D. .................... Missouri
Read, W. H. (Emeritus), CPA, MBA ................................... Northwestern
Reeve, James M., CPA, Ph.D. ................................... Oklahoma State
Roth, Harold P., CPA, Ph.D. .......................... VPI
Stang, Keith G. (Arthur Andersen Prof.), CPA, Ph.D. ..................... Louisiana State
Williams, Jan R. (Ernst & Young Prof.), CPA, Ph.D. ..................... Arkansas

Associate Professors:

Anderson, Kenneth E., CPA, Ph.D. .................................. Indiana
Massingale, Cheryl S., J.D. ............................ Tennessee
Posey, Imogene A., CPA, M.S. .......................... Tennessee
Slagle, Warren L. (Emeritus), CPA, M.S. .............................. Tennessee
Townsend, Richard L., CPA, Ph.D. ............................. Texas

Assistant Professors:

Ayers, Susan, CPA, Ph.D. .......................... Arizona State
Behn, Bruce K., CPA, Ph.D. ........................ Arizona State
Carcello, Joseph V., CPA, Ph.D. .... Georgia State
Gallan, Amy W., Ph.D. .............................. VPI
Helboxx, Kathleen B., Ph.D. ............................ Oklahoma
Letsinger, M. Clyde (Emeritus), CPA, M.S. .................... Tennessee

Murphy, Daniel, CPA, Ph.D. .................. North Carolina

Distinguished Lecturer:

Wolfe, Singleton B. (Emeritus), B.S. .................. VPI

Lecturers:

Hendrick, Lee W., CPA, J.D. ....................... Houston
Hughes, Harry N., B.S. ........................... Tennessee

THE MASTER OF ACCOUNTANCY PROGRAM

The objective of the M.Acc. program is to provide persons who have a high level of ability and motivation with the depth and understanding of accounting that will enhance their probability of success in a career in professional accounting. Moreover, the student's educational experience should develop perspectives toward the discipline of accounting in a manner that will enable the student to spearhead innovation and change in response to needs in public accounting, industry, and government.

**Admission Requirements**

Application deadlines for international students are: Fall and Summer, January 15. Application deadlines for U.S. citizens and permanent residents are: Fall and Summer, March 1. The program is designed both for students who have completed an accredited baccalaureate degree program with a major in Accounting and others. Those with outstanding undergraduate records in areas other than accounting may earn the M.Acc. degree by completing prerequisites in accounting and by including courses in other business and related disciplines to supplement the applicant's undergraduate background. Students entering the program should be computer literate and are expected to have completed coursework in calculus, principles of accounting, and introductory economics.

In addition to the general admission requirements for The Graduate School, M.Acc. applicants are required to take the Graduate Management Admission Test (GMAT) and submit information on forms provided by the College of Business Administration. Applicants whose native language is not English must submit results of the Test of English as a Foreign Language (TOEFL).

**Course Requirements**

A student's program encompasses a minimum of 30 semester hours of graduate coursework. Specifically, the student must complete courses in accounting and other areas as indicated below. Each course is 3 semester hours of graduate credit.

A student with an undergraduate degree in accounting can usually complete the program in about three semesters. A student without an undergraduate accounting degree can usually complete the program in four semesters.

For students with an undergraduate accounting degree, the requirements are:

**Accounting Core (9 hours):** 511, 513, Business Law 511.

**Accounting Concentration (9 hours):**

Three concentrations are available:

3. Taxation: 531, 532, 533, 534, 539.

Students must take at least three courses from the same concentration and one of the course numbers must end with 9.

**Accounting Electives (6 hours):** Elective courses to be taken from concentration courses listed above.

**Non-accounting Electives (6 hours):** Non-accounting courses taken in either other business or non-business areas, upon approval of M.Acc. advisor.

For students without an undergraduate accounting degree, the requirements are:

**Prerequisites:** Accounting 311, 341, 431, Management 301, 401, Finance 301, all for undergraduate credit.

**Accounting Core (9 hours):** 511, 513, Business Law 511.

**Accounting Concentration (9 hours):**

Three concentrations are available:

3. Taxation: 531, 532, 533, 534, 539.

Students must take at least three courses from the same concentration and one of the course numbers must end with 9.
Required Additional Courses (12 hours):
Marketing 510, Accounting 411, 414, and 521.

Transfer Credits
A maximum of six semester hours taken at other AACSB accredited institutions that otherwise conform to the transfer policy of The Graduate School may be credited toward M.Acc. degree requirements.

Other Requirements
To qualify for the degree, a student must maintain a B average (3.0) or above in the core and concentration area accounting courses and a B average or higher in the overall program. The student must satisfactorily demonstrate his/her ability to recognize, analyze, and solve accounting problem concepts and integrate concepts from the various areas of accounting by passing a comprehensive written examination. This examination is included in the capstone course in each concentration as follows: 519, Research in Financial Accounting and Auditing; 539, Tax Policy and Special Topics; and 549, Systems Policy.

BUSINESS ADMINISTRATION CONCENTRATION

For complete listing of Ph.D. program requirements, see Business Administration. Ph.D. Concentration: Accounting.

This degree provides a research-oriented terminal qualification for those seeking entry-level faculty positions in accounting. Students take approximately three years of coursework beyond the bachelor's degree, including a doctoral sequence designed to expose students to various areas of accounting research. Courses in accounting and other areas are selected to supplement the student's individual background and to prepare the student in an area of accounting specialization (financial, managerial, auditing, tax, or systems). The final year is normally spent completing the dissertation.

Minimum course requirements are 12 hours including 611, 612, 619, and one other accounting course to be approved by Ph.D. accounting program advisor.

ACADEMIC STANDARDS

A graduate student in the College of Business Administration whose grade-point average falls below 3.0 will be placed on probation. A student on probation will be dropped from the program unless his/her cumulative grade-point average is 3.0 or higher at the end of the probationary period. The probationary period is defined as the next semester's coursework as established by the degree program for full-time students and the next two semester's coursework as established by the degree program for part-time students.

ACADEMIC COMMON MARKET

An agreement among southern states for sharing graduate programs allows legal residents of some states to enroll in certain programs at UT Knoxville on an in-state tuition basis. The M.Acc. program in Accounting is available to residents of the state of West Virginia. Additional information may be obtained from the Admissions Specialist in the Office of Graduate Admissions and Records.

Accounting

GRADUATE COURSES

411 Financial, Compliance, and Operational Auditing (3) Role of auditing in society from an internal and external perspective, the IIA Code of Ethics, the IIA Standards for the Professional Practice of Internal Auditing, auditing methodology, role of internal control and statistical sampling in auditing, fraud auditing, operational auditing, computer-assisted auditing, and applications of auditing procedures to specific transaction cycles. Prereq: Principles of Managerial Accounting.

414 Financial Reporting by Business and Non-Profit Organizations (3) Continuation of 311: liabilities, stockholders' equity, earnings per share, income taxes, cash flows, leases, pension, changing prices, interim reporting, and advanced aggregation issues. Prereq: Financial Reporting by Business and Non-Profit Organizations and admission to M.Acc program or consent of instructor.

415 Governmental and Nonprofit Accounting (3) Application of governmental and nonprofit entity concepts in theory and practice of governmental and nonprofit accounting principles; application of accounting standards to governmental and nonprofit organizations. Prereq: Principles of Managerial Accounting.

416 Advanced Auditing and Consulting (3) Approaches to evaluate an entity's efficiency and effectiveness of operations in the real world. Prereq: Audit and Valuation, and consent of instructor.

452 Taxation of Corporations and Partnerships (3) Taxation of corporations and partnerships, including the allocation of income. Prereq: Principles of Managerial Accounting.

502 Registration for Use of Facilities (3-15) Required for students planning to use facilities. Prereq: Admission to M.Acc program or consent of M.Acc advisor. May be taken more than once, but only 1 credit per term.

511 Advanced Corporate Financial Reporting (3) Theory and practice of corporate financial reporting: earnings per share, income taxes, cash flows, leases, pension, changing prices, interim reporting, and advanced aggregation issues. Prereq: Financial Reporting by Business and Non-Profit Organizations and admission to M.Acc program or consent of instructor.

513 Advanced Auditing (3) Theory and concepts underlying practice of auditing. Modern auditing, analytical approaches, decision making, and other advanced audit techniques. Prereq: Auditing and Valuation and consent of instructor.

514 Auditing Practice (3) Design and performance of audits in computerized environments. Analysis of control systems in design of internal control, internal control effectiveness, and assessment of control risk. Problems in variety of auditing contexts, highly automated situations. Prereq: 511 and consent of instructor.

518 Seminar in Professional Accounting Practice (3) Topics in financial reporting and auditing: taxation of business enterprises and emerging professional accounting standards. Development of written and communication skills. Prereq or coreq: 511 and admission to M.Acc program.


521 Seminar in Advanced Managerial Cost Accounting (3) Analysis of conceptual and current issues in management accounting and cost accounting. Approaches to management accounting, decision and control models, and planning and control under conditions of uncertainty. Prereq: Cost and Managerial Accounting and admission to a graduate business program or consent of instructor.

522 Budgetary Planning and Control Systems (3) Alternative approaches to formulation and use of planning and control systems for meeting organizational objectives. Control systems and corporate structure, discretionary expense centers, profit centers, transfer pricing, and control in manufacturing, service, and non-for-profit organizations. Prereq: Admission to a graduate business program or consent of instructor.


532 Corporate Taxation and Reorganizations (3) Organization and structure, distributions, liquidations, and special problems in taxation of corporations and shareholders. Prereq: Admission to M.Acc program or consent of instructor.

533 Taxation of Partnerships and S Corporations (3) Formation, operation, termination, and other special problems of partnerships. Election for S Corporations, and the taxation of partnerships and S Corporations. Prereq: Admission to M.Acc program or consent of instructor.

534 Facility Tax Planning (3) Review and analysis of laws pertaining to inter vivos and post-mortem property transfers and taxation of estates. Financial planning techniques and strategies used to accomplish family tax planning objectives. Prereq or coreq: 531.

539 Tax Policy (3) Basic concepts of tax policy: complexity, efficiency, equity, alternative tax bases, and political processes. Current issues in tax law and policy: organizational form, implicit taxes, arbitrage, tax rates, and selected other topics. Prereq: 431 and admission to M.Acc program.

541 Database Systems (3) Design, implementation, and use of database systems for collection, organization, and distribution of economic information about organizations. Prereq: Accounting Information Systems and admission to a graduate program or consent of instructor.

542 Systems Analysis and Design (3) Analysis and design of information systems for management and distribution of economic information about organizations. Prereq: Accounting Information Systems and admission to a graduate program or consent of instructor.

549 Systems Issues and Policies (3) Seminar in emerging issues in systems development and knowledge-based systems. Prereq: 541 and admission to a graduate program or consent of instructor. Prereq or coreq: 542.

592 Graduate Internship in Accounting (3) Full-time resident professional employment for one academic semester involving qualified job experience, written report of responsibilities, and evaluation of student performance. Prereq: Admission to M.Acc program or consent of M.Acc advisor.

593 Individual Research in Accounting (3) Directed research in topics of mutual interest. Prereq: Admission to M.Acc program or consent of M.Acc advisor. May be repeated. Maximum 6 hrs.

594 Graduate Seminar in Accounting (3) Topics vary. Prereq: Admission to M.Acc program or consent of instructor.

600 Doctoral Research and Dissertation (3-15) P/NP only. E

611-12 Doctoral Seminar in Accounting (3,3) Analysis of issues reflected in accounting literature. Prereq: Consent of Ph.D. program advisor.

619 Doctoral Research in Accounting (3) Study of research methodology and application of various search methods in accounting literature. Prereq: Consent of Ph.D. program advisor.

621-22 Accounting Colloquium (1,1) Research and discussion of contemporary issues in practice of accounting. Prereq: Consent of Ph.D. program advisor. May be repeated. SUC only.

Business Law

GRADUATE COURSES

511 Business Law and Professional Responsibility (3) Legal framework and ethical implications of business transactions. Principles and practices in law of contracts, commercial transactions, real property, trusts, estates and professional responsibility. Prereq: Legal Environment of Business and admission to M.Acc program or consent of instructor. Not available for students with credit for 401.
Advertising
(College of Communications)

MAJOR DEGREES
Communications ..................... M.S., Ph.D.

Ronald E. Taylor, Head

Professor:
Taylor, Ronald E., Ph.D. .............. Illinois

Associate Professors:
Hovland Marsh, Roxanne, Ph.D. .... Illinois
Hoy, Maria, Ph.D. ..................... Oklahoma State

Assistant Professors:
Haley, Eric, Ph.D. ..................... Georgia
Raman, Niranjan, Ph.D. .............. Texas

The Department of Advertising offers a concentration area for the master's degree with a major in Communications and participates in the interdisciplinary doctoral program. See Communications for additional information.

GRADUATE COURSES
490 Special Topics (3) Topics vary: advanced media strategy, computer applications, and advertising and social issues. E
510 Advertising and Society (3) Analysis of advertising as an institution in a free-enterprise democracy and its relationship to social, legal, economic, and educational institutions. F
520 Advertising and Communications Theory (3) Application of contemporary communications theories of attitude change, information-processing, and persuasion as applied to creative strategy decisions. Prereq: Consent of instructor or permission to program. F
530 Advertising Research (3) Nature, scope, and applications of research function to advertising decisions. Market segmentation, copy appeals, media strategy. Prereq: Statistics 201 or equivalent. Sp
540 Advertising Planning (3) Analysis of decision-making in budgeting, creative strategy, market strategy, research, evaluation, and agency-client relationships. Advertising response functions. Prereq: Consent of instructor or admission to program. Sp
597 Independent Study (3) Prereq: Consent of instructor. May be repeated. Maximum 6 hrs. E

Aerospace Engineering
See Mechanical and Aerospace Engineering

Agricultural and Extension Education
(College of Agricultural Sciences and Natural Resources)

MAJOR DEGREE
Agricultural and Extension Education .......... M.S.

Roy R. Lessly, Head

Professors:
Carter, Cecil E., Jr., Ph. D. .............. Ohio State
Dickson, Lewis H. (Emeritus), Ed.D. .... Cornell
Lessly, Roy R. (Liason), Ed.D. .......... Oklahoma State
Todd, John D., Ed.D. ................... Illinois

Associate Professor:
Waters, Randol G., Ph.D. .............. Penn State

The Department of Agricultural and Extension Education offers a program leading to the Master of Science degree with a major in Agricultural and Extension Education. The program is designed primarily for teachers of Agricultural Education and staff employed by the Agricultural Extension Service. However, due to the flexibility of the program, it would be of value to any student interested in agriculture in adult and continuing education. The program may be completed under a thesis or non-thesis option with a concentration in either agricultural education or agricultural extension education. Candidates for the master's degree must meet the general requirements of The Graduate School and those stipulated by the department.

THE MASTER'S PROGRAM
Thesis Option
A candidate for the master's degree who elects the thesis option must successfully complete:
1. A minimum of 12 credit hours of course work approved by the student's advisory committee. Prereq: Consent of instructor.
2. A minimum of 12 credit hours of course work approved by the student's advisory committee. Prereq: Consent of instructor.
3. A minimum of 12 credit hours of course work approved by the student's advisory committee. Prereq: Consent of instructor.
4. A minimum of 3 semester hours of course work in research methodology or statistics. Prereq: Consent of instructor or admission to program.
5. A written and oral comprehensive examination.

Non-Thesis Option
A candidate for the master's degree who elects the non-thesis option must successfully complete:
1. A minimum of 36 credit hours of course work approved by the student's advisory committee. Prereq: Consent of instructor.
2. A minimum of 3 credit hours of course work approved by the student's advisory committee. Prereq: Consent of instructor.
3. A minimum of 3 credit hours of course work approved by the student's advisory committee. Prereq: Consent of instructor.
4. A minimum of 3 credit hours of course work approved by the student's advisory committee. Prereq: Consent of instructor.
5. A written and oral comprehensive examination.

GRADUATE COURSES
411 Fundamentals of Agricultural Extension (3) History, philosophy, organization structure, clientele served, major areas of program emphasis, teaching methods, and relationships with other educational agencies. Graduate credit for non-majors only. Sp

450 Thesis (1-15) P/NP only. E

502 Registration for Use of Facilities (3-15) Required for the student not otherwise registered during any semester when student uses University facilities and/or faculty time before degree is completed. May not be used toward degree requirements. May be repeated. S/N only. E

521 Extension Program Planning (3) Methods of developing county extension program: sources of essential basic information, determination of problems and needs of people, functions of lay people and various groups of extension workers. Use of committees, step-by-step planning procedures, coordinated county and state plans and characteristics of effective programs. Prereq: 511 or consent of instructor. Sp

522 Extension Teaching Methods (2) Teaching methods and techniques applicable to extension work, and techniques of evaluation. Prereq: 511 or consent of instructor. Sp

523 Extension Program Evaluation (2) Principles, methods, and techniques of evaluating educational programs and strategies. Prereq: 511 or consent of instructor. Sp

524 Research Methodology (3) Social research design, hypothesis testing, sampling, survey construction, scaling, interviewing, data coding, descriptive and inferential statistics, and presentation of results. Prereq: 425, 523, or consent of instructor. Sp

525 Curriculum Planning in Agricultural Education (3) Models, principles and procedures for developing curricula in agricultural education and planning learning activities for planned instructional programs. Prereq: 425, 523, or consent of instructor. Sp

526 Agricultural Education for First-Year Teachers (2) Developing competencies needed by first-year teachers for planning, organizing and conducting programs of educational experiences for children and adults. Prereq: 511 or consent of instructor. Sp

528 Advanced Techniques for Teaching Agricultural Science (3) Teaching techniques; determining needed competencies, organizing, and managing agricultural science programs. Prereq: 425, 523, or consent of instructor.

529 Supervised Occupational Experiences in Agricultural Education (3) Historical and philosophical bases for supervised occupational experiences, and organizational patterns and procedures for conducting programs for farmlands and off-farm educational activities. Prereq: 425, 523 or consent of instructor.

530 Special Topics in Agricultural and Extension Education (1-3) Current issues. Prereq: Consent of instructor. May be repeated. Maximum 6 hrs. E

531 Extension History, Philosophy and Objectives (3) Historical and philosophical foundations of adult education, American agriculture, cooperative extension, cooperative vocational agriculture in local community. Prereq: 511 or consent of instructor. Sp

532 Managing Extension Organizations, Programs and Personnel (3) Principles of management for individual and organizational effectiveness. Prereq: 521, 531, or consent of instructor. Sp

593 Special Problems in Agricultural and Extension Education (1-3) Special research and/or special reports based on supervised independent study. Prereq: Consent of instructor. May be repeated. Maximum 6 hrs. E
Agricultural Economics and Rural Sociology

(College of Agricultural Sciences and Natural Resources)

MAJOR DEGREES

Agricultural Economics .......................... M.S., Ph.D.

Handy Williamson, Head

Professors:

Badenhop, M. B. (Emeritus), Ph.D. .......... Purdue
Brooker, J. R. (Liaison), Ph.D. ............. Florida
Cleland, C. L. (Emeritus), Ph.D. .......... Wisconsin
Eastwood, D. B., Ph.D. ..................... Tufts
Englsch, B. C. Ph.D. ................................. Iowa State
Keller, L. H. (Emeritus), Ph.D. .......... Kentucky
Klindt, T. H., Ph.D. .............................. Kentucky
Leuthold, F. O., Ph.D. ......................... Wisconsin
McLemore, D. L., Ph.D. ..................... Clemson
Macmanus, B. R. (Emeritus), Ph.D. ...... Purdue
Martin, J. A. (Emeritus), Ph.D. .......... Minnesota
Mundy, S. D., Ph.D. .............................. Tennessee
Orr, R. H., Ph.D. ................................. Illinois
Park, W. M., Ph.D. .............................. Virginia Tech
Pentecost, B. H., J.D. .............................. Tennessee
Ray, Daryl E. (Bernard Blassingame Chair of Excellence), Ph.D. .......... Iowa State
Roberts, R. K., Ph.D. ............................... Iowa State
Sappington, C. B. (Emeritus), Ph.D. .... Illinois
Whitney, T. J. (Emeritus), Ph.D. .......... Purdue
Williamson, H., Ph.D. ......................... Missouri

Associate Professors:

Jensen, K. L., Ph.D. .......................... Oklahoma State
Pompeii, G. K., Ph.D. ......................... California (Davis)

Assistant Professors:

Jaks, Paul M., Ph.D. ......................... NC State
Larson, J. A., Ph.D. .............................. Oklahoma State
Stokes, J. R., Ph.D. .............................. Texas A&M

The Department of Agricultural Economics and Rural Sociology offers programs of graduate study leading to the Ph.D. and M.S. The doctoral program includes concentrations in agricultural marketing and price analysis, agricultural policy, farm management and production economics, natural resource economics, and rural development. The M.S. program may be completed under a thesis option with concentrations in agricultural economics or rural sociology. A non-thesis option is available with a concentration in agricultural economics only. For specific information, contact the department head.

THE MASTER'S PROGRAM

Thesis Option

A candidate for the master's degree must complete a minimum of 33 hours of graduate credit in courses approved by the student's master's committee. Six hours of thesis may be counted toward this requirement. At least 27 hours of graduate credit must be earned in courses numbered at or above the 500 level. In the agricultural economics concentration, 15 hours of agricultural economics, 6 hours of economic theory and 6 hours of quantitative methods are required. In the rural sociology concentration, 12 hours in the department (9 hours rural sociology), 6 hours of sociological theory, 3 hours of research methods and 6 hours of statistics are required. Each student must successfully complete a final oral examination.

Non-Thesis Option

A minimum of 36 hours of graduate coursework is required. At least 30 hours must be in courses numbered at or above the 500 level. The program must include a minimum of 21 hours in agricultural economics and 6 hours of quantitative methods. In the agribusiness concentration, 6 hours of internship are required. In the agricultural economics concentration, 6 hours of economic theory are required. Each student must successfully complete both written and oral comprehensive exams.

Minor

A minor will include 6 hours of coursework in the department, with at least 3 hours in 500- or 600-level courses. The student's committee must include a member of the faculty from the department who will be responsible for designating courses required for the minor.

THE DOCTORAL PROGRAM

A minimum of 78 hours of graduate credit beyond the B.S. degree, including 24 hours of dissertation research, but excluding any master's research credit, is required. A minimum of 27 hours of coursework in agricultural economics is required, 18 hours of research and 9 hours of quantitative methods are required. The program must include a minimum of 9 hours in courses numbered at or above the 600 level (excluding dissertation credits). Qualifying exams are required in microeconomic and macroeconomic theory. Comprehensive exams include three written exams and one oral exam. The written exams are in general agricultural economics, quantitative methods, and the area of concentration.

Minor

A minor will consist of a minimum of 9 hours of coursework taken in the department and approved by the minor professor. At least 6 hours of credit in the minor area must be in 500- and 600-level courses.

MINOR IN ENVIRONMENTAL POLICY

The department participates in a program designed to give master's level graduate students an opportunity to develop an interdisciplinary specialization in environmental policy. See Economics for program description.

Agricultural Economics

GRADUATE COURSES

412 Agricultural Finance (3) Macroeconomic analysis of agricultural finance, decisions and policies of agricultural commodity flows; partial equilibrium analysis of international trade in agricultural products; institutional aspects of international marketing of agricultural products. Prereq: Intermediate Agricultural Economics or consent of instructor. F

430 Agricultural Policy (3) Values, goals and policy process in agricultural science; economic rationale and effects of policy: Historical development and current characteristics of commodity, credit, food, and trade policy. Prereq: Intermediate Agricultural Economics or consent of instructor. Sp

440 Agricultural Production Economics (3) Application of microeconomic theory to problems of resource allocation, enterprise selection, scale of operation of agricultural firms; economic interpretation of technical agriculture production relationship. Prereq: Intermediate Agricultural Economics or consent of instructor. Sp

442 Agribusiness Management (3) Advanced decision analysis in farm and agribusiness settings, planning and organizing functions, analyzing investment alternatives, evaluating budgets and financial statements, assessing profitability and solvency, use of computers in business decisions. Prereq: Farm Business Management and Microcomputer Applications to Problem Solving or consent of instructor. F


460 Rural Economic and Community Development (3) Historical and theoretical perspective on problems facing rural communities; linkages between farm and nonfarm sectors; models and tools for analyzing rural development. Prereq: 210 or consent of instructor. F

470 Natural Resource Economics (3) Nature of natural resources; economic efficiency as basis for natural resource use; environmental quality; alternative policy tools for influencing natural resource use or improving environmental quality. Prereq: 210 or consent of instructor. Sp

500 Thesis (1-15) P/N only. E

502 Registration for Use of Facilities (3-15) Required for the student not otherwise registered during any semester when student uses University facilities and/or faculty time before degree is completed. May not be used toward degree requirements. May be repeated. S/NC only. E

505 Microeconomic Analysis (3) Theory of utility maximization and demand; production, cost, firm behavior, and supply in product and factor markets; efficiency and welfare. Prereq: Calculus and Intermediate Microeconomics or equivalent. F

520 Research Methodology (1) Nature of scientific method and research processes; role of assumptions, hypothesis, theory and models; methodological problems of social sciences; establishing research priorities. Prereq: Consent of instructor. F

522 Mathematical Programming Methods in Agricultural Economics (3) Linear, integer and quadratic programming techniques with empirical applications to problems of firm and region; profit maximization, cost minimization, transportation, risk, allocation over space and time. Prereq: Consent of instructor. Sp

524 Econometric Methods in Agricultural Economics (3) Application of statistical tools to agricultural economic models; estimation of supply, demand and production functions; microeconomic forecasting models; interpretation of results. Prereq: Statistics 461 or consent of instructor. F

530 Agricultural Policy Analysis (3) Evaluation of public policy as related to agricultural industry and rural areas. Prereq: 505 and Economics 513 or consent of instructor. F

540 Advanced Agricultural Production Economics (3) Theoretical and empirical concepts in agricultural resource allocation; evaluation of both static and dynamic issues; decision theory with application to agricultural firms; aggregate impact of farm decisions on industry. Prereq: 440 or equivalent. Sp

550 Advanced Agricultural Marketing (3) Analysis of structure, conduct and performance of agricultural mar-
Rural Sociology

GRADUATE COURSES

480 Technological and Community Change (3) Analysis of communication processes whereby new technology spreads within a farm population and analysis of social institutions related to change in rural communities. Prereq: Rural Sociology or consent of instructor. (Same as Sociology 480.) Sp

580 Advanced Rural Sociology (3) Application of sociological concepts and theory to analyze changing structure and function of rural life in U.S. and developing countries. Demographic changes, rural social and community indicators, and rural development processes. Prereq: 380 or equivalent. (Same as Sociology 580.) Sp

593 Special Topics in Rural Sociology (1-3) Current sociological issues involving application of sociological theory. Prereq: 380 or consent of instructor. May be repeated. Maximum 6 hrs. (Same as Sociology 555.) E

Agricultural Engineering

(College of Agricultural Sciences and Natural Resources)

MAJORS DEGREES
Agricultural Engineering ............. M.S., Ph.D.

Agricultural Engineering Technology ......... M.S.

C. Roland Mote, Head

Professors:
Bledsoe, B. L., PE, Ph.D. ......... Oklahoma State
Henry, J. A., PE, Ph.D. .......... NC State
Luttrel, D. H. (Emeritus), Ph.D. .... Iowa State
Mcdow, J. J. (Emeritus), PE, Ph.D. .... Ohio State
Mote, C. R., PE, Ph.D. ......... Tennessee
Sowell, J. I., PE, Ph.D. .......... Iowa State
Shelton, C. H. (Emeritus), M.S. ........ VPI
Tomkins, F. D., PE, Ph.D. ......... Tennessee
Wilhelm, L. R., PE, Ph.D. ......... Pennsylvania
Wills, J. B., M.S. ................. Tennessee

Associate Professors:
Freeland, R. S., PE, Ph.D. ........ Tennessee
Grandle, G. F., Ph.D. .......... Purdue
Hart, W. E., Ph.D. ............... Purdue
Wilkinson, J. B., Ph.D. ......... Purdue

Assistant Professors:
Baxter, D. O., M.S. ............ Missouri
Bums, R. T., Ph.D. ............ Tennessee
Buscher, Michael J., Ph.D. ....... Clemson
Hulbert, G. J., Ph.D. ............ Illinois
Prather, T. G., M.S. ............. Georgia
Raman, D. R., Ph.D. ............ Cornell
Womac, A. R., Ph.D. .......... Tennessee
Yoder, D. C., Ph.D. ............ Purdue
Yoder, R. E., PE, Ph.D. ........ Colorado State

Graduate programs leading to the Master of Science and Doctor of Philosophy with a major in Agricultural Engineering are available to graduates of a recognized curriculum in engineering, mathematics, or one of the physical or biological sciences. A graduate program leading to the Master of Science in Agricultural Engineering Technology is available to graduates of a recognized curriculum in agriculture or other related fields. Each applicant will be advised about any prerequisite courses before entering a program. The student's program of study must be approved by his/her advisor committee and must comply with the requirements of the Graduate School.

A completed departmental data sheet and three completed Graduate School Rating Forms are required in addition to The Graduate School application.

A significant aspect of graduate education beyond formal courses and thesis projects is active participation in the professional community which exists within academic departments at universities. Student/faculty seminars are one of the professionally rewarding activities of the community. Accordingly, graduate students are encouraged to participate in each Agricultural Engineering Department seminar regardless of whether they are registered for seminar credit.

THE MASTER'S PROGRAMS

Agricultural Engineering

Applicants who have not previously earned a degree from a professionally-accredited program within the U.S. must submit scores from the GRE general examination. Applicants accepted into the program must complete at least 30 semester hours to earn a degree. Of these 30 hours, 20 must be in courses numbered 500 or greater (6 hours of thesis plus 14 hours of other courses). Other specific requirements for the 30 hours are:

Agricultural Engineering 504 (1), 505 (1), and other major subject courses 12 hours
Coursework in computational methods (mathematics, computer science, statistics, or any course containing appropriate computational components that may be approved by the department) 6 hours
Program electives 6 hours
Thesis 500 6 hours

In addition to completing the 30 semester hours, master's students must pass a final oral examination covering the thesis, related areas, and graduate coursework.

Agricultural Engineering Technology

Thesis Option: Applicants who have not previously earned a degree from a professionally-accredited program within the U.S. must submit scores from the GRE general examination. Applicants accepted into the program must complete at least 33 semester hours to earn a degree. Of these 33 hours, 20 must be in courses numbered 500 or greater (6 hours of thesis plus 14 hours of other courses). Other specific requirements for the 33 hours are:

Agricultural Engineering Technology 504 (1), 505 (1), and other major subject courses 12 hours
Coursework in computational methods (mathematics, computer science, statistics, or any course containing appropriate computational components that may be approved by the department) 6 hours
Program electives 6 hours
Thesis 500 6 hours

In addition to completing the 30 semester hours, master's students must pass a final oral examination covering the thesis, related areas, and graduate coursework.

Non-Thesis Option: A non-thesis option in Agricultural Engineering Technology is available to qualified students. Applicants who have not previously earned a degree from a professionally-accredited program within the U.S. must submit scores from the GRE general examination. Applicants accepted into the program must complete at least 33 semester hours to earn a degree. Of these 33 hours, 20 must be in courses numbered 500 or greater (6 hours of thesis plus 14 hours of other courses). Other specific requirements for the 33 hours are:

Agricultural Engineering Technology 504 (1), 505 (1), and other major subject courses 12 hours
Coursework in computational methods (mathematics, computer science, statistics, or any course containing appropriate computational components that may be approved by the department) 6 hours
Program electives 6 hours
Thesis 500 6 hours

In addition to completing the 30 semester hours, master's students must pass a final oral examination covering the thesis, related areas, and graduate coursework.
In addition to completing the 33 semester hours, non-thesis students must pass a comprehensive written final examination covering the graduate program, including the capstone experience. At the discretion of the candidate’s committee, an oral examination may also be required.

THE DOCTORAL PROGRAM

Departmental Requirements

Students applying for admission into the doctoral program must submit evidence of ability to perform and report independent research to the satisfaction of the faculty of the department. An approved master’s thesis will usually be acceptable for this purpose. Scores on the GRE general and engineering subject examinations also are required for applicants who have not received a degree from an ABET-accredited engineering program.

To earn a degree, each doctoral student must complete at least 75 hours of approved graduate credit (beyond the baccalaureate degree) in agricultural engineering and supporting areas (engineering, computational methods, agricultural and biological sciences, and other related areas). Of the 75 hours, 48 must be in courses numbered greater than 500 (including 24 hours of course 600) and 6 hours of courses at UTK numbered greater than 600. Other specific requirements for the minimum 75 hours are:

Major subject courses 18 hours
Coursework in computational methods (mathematics, computer science, statistics, or any course containing appropriate computational components that may be approved by the department) 9 hours
Program electives 21 hours
Seminar (504, 505 or equivalent courses) 3 hours
600 Dissertation 24 hours

In addition to completing the minimum 75 hours of graduate credit required for a degree, each doctoral student must also pass a comprehensive examination as required by The Graduate School.

Agricultural Engineering

GRADUATE COURSES


423 Irrigation and Waste Management System Design (3) Design of irrigation and agricultural waste management systems with consideration given to livestock waste characteristics, climate, water quantity, system characteristics, and impact on crop yield and water quality. Prereq: Soil and Water Conservation and Engineering Lab. 1 hr and 2 labs. Sp.

430 Mobile Hydraulic Power System Design (3) Functional and operational characteristics of mobile hydraulic system components; pumps, valves and actuators; analysis and synthesis of power transmission and control circuits. Prereq: Fluid Mechanics or Hydraulics. 2 hrs and 1 lab. Sp.


451 Electronic Systems (4) Basic electronics with biological applications. Analog and digital electronics; sensing and controlling properties and environmental parameters; sensor selection and interfacing; signal conditioning; process control, Laboratory experiments and design projects. Prereq: Circuit and Electromechanical Components: 3 hrs and 1 lab. Sp.

500 Thesis (1-15) P/NP only. E

502 Registration for Use of Facilities (3-15) Required for the student not otherwise registered during any semester when student uses University facilities and/or faculty time before degree is completed. May not be used toward degree requirements. May be repeated. S/NC only. E

504 Professional Development Seminar (1) Planning and executing research program; ethics and professionalism; departmental procedures and resources. (Same as Agricultural Engineering Technology 504.) S/NC only. F

506 Professional Communications Seminar (1) Reviews, reports and discussions of current topics; presentations by students. Prereq: 504. May be repeated in doctoral program. Maximum 2 hrs. (Same as Agricultural Engineering Technology 506.) S/NC only. E

510 Similitude in Design and Research (3) Dimensional analysis; governing equations; theory of models; true, distorted, dissimilar models; prediction equations; interpretation of data; models; applications to mobile hydraulic, soil and water structures, agricultural buildings and other agricultural engineering related problems. Prereq: Engineering Science and Mechanics 521. 2 hrs and 1 lab. F,A

525 Soil Erosion and Sediment Yield (3) Same as Environmental Engineering 525.

530 Research Problems in Agricultural Engineering (1-3) Theoretical and experimental studies relating to current problems in agricultural engineering. May be repeated. Maximum 6 hrs. E

541 Principles of Compost Engineering (3) Comprehensive study of composting; survey of installed systems; thermodynamics of composting; biology of heat inactivating; food conditioning; aerating; substrate characteristics, process kinetics; and odor control. Design component. Prereq: Thermodynamics, heat and mass transfer. F

543 Instrumentation and Measurement (3) Modern instrumentation techniques. Static and dynamic response of instrumentation; test equipment; conditioning; temperature, moisture, optical radiation, displacement, strain, pressure, velocity, acceleration, and flow measurements; dynamic, composite and control. Prereq: 453 or Electronics and Computer Circuits or equivalent. 2 hrs and 1 lab. (Same as Environmental Engineering 543.) F,A

545 Monitoring Hydrologic Phenomena (3) Application of instrumentation theory to monitoring hydrologic phenomena; strengths and weaknesses of current equipment and strategies; equipment operation and solution of environmental monitoring problems. Prereq: 543. 2 hrs and 1 lab. (Same as Environmental Engineering 545.) F,A

550 Selected Topics (1-3) Lecture, group discussion, and individual study on specialized topics. May be repeated. Maximum 6 hrs. E

552 Biological Treatment Theory (3) (Same as Environmental Engineering 552.)

575 Applied Microbiology and Bioengineering (3) Same as Chemical Engineering 575. Environmental Engineering 575, and Microbiology 575.

600 Doctoral Research and Dissertation (3-15) P/NP only. E

620 Computer Simulation of Agricultural Systems (3) Scientific approach to digital simulation; system definitions and boundaries, formulation of models, algorithms and solution techniques, encoding of prediction equations in computer models, algorithms and solution techniques, encoding of prediction equations and model output, verification and calibration of simulation model results. Prereq: Basic Engineering 101, 201 or equivalent. 2 hrs and 1 lab. F,A

630 Feedback and Control Systems (3) Differential equations for physical systems: solutions, transforms, and system response. Types of control, frequency response, system compensation, and system analysis. Application to agricultural systems. Prereq: 451, Mathematics 231, Basic Engineering 101, 201, or equivalent. 2 hrs and 1 lab. F,A

650 Selected Topics (1-3) Lecture, group discussion, and individual study on specialized developments. May be repeated. Maximum 6 hrs. E

Agricultural Engineering Technology

GRADUATE COURSES

422 Food and Process Engineering Technology (3) Application of basic engineering principles to agricultural and food processes. Fluid handling, drying, evaporation, thermal processing, heating and cooling, refrigeration systems, and materials handling. Prereq: Introductory Physics, Calculus 2, hrs. and 1 lab. F

432 Agricultural Machinery and Tractors (3) Agricultural machinery and power equipment; application to agricultural practices; management considerations, field efficiencies; capabilities; adjustment and servicing. Prereq: Calculus 2, 2 hrs and 1 lab. F

442 Agricultural Waste Management and Pollution Control (3) Waste renovation fundamentals, characteristics of animal manure; techniques for collection, transportation, storing, and utilizing livestock waste. Prereq: Mathematics 121, 2 hrs and 1 lab. Sp.

452 Small Internal Combustion Engines (3) Theory, concepts, and mechanics of small internal combustion engines; theoretical cycles; selection, operation, adjustment, troubleshooting, and repair of single-cylinder engines. Prereq: Introductory Physics or consent of instructor. 2 hrs and 1 lab. F

454 Food Processing Systems (3) Equipment for application of liquid, solid, and gaseous agricultural chemicals; system components; operational characteristics; calibration; selection and management; safety considerations; materials handling and disposal methods. Prereq: Physics 121 or consent of instructor. 2 hrs and 1 lab. Sp.

500 Thesis (1-15) P/NP only. E

502 Registration for Use of Facilities (3-15) Required for the student not otherwise registered during any semester when student uses University facilities and/or faculty time before degree is completed. May not be used toward degree requirements. May be repeated. S/NC only. E

504 Professional Development Seminar (1) (Same as Agricultural Engineering 504.) S/NC only. F

505 Professional Communications Seminar (1) (Same as Agricultural Engineering 505.) S/NC only. F

506 Physical Phenomena (3) Properties of materials, fundamentals of hydraulics, principles of electricity, thermal phenomena, applications in biological systems. Prereq: Consent of instructor. F

508 Special Problems in Agricultural Engineering Technology (1-3) Individual study of current problems. May be repeated. Maximum 6 hrs. E

522 Processing and Environmental Systems (3) Environmental systems in plant production; application of electric power, mechanical equipment, structures, crop processing and materials handling. Prereq: 506. 2 hrs and 1 lab. Sp.

532 On-Site Domestic Water Supply and Wastewater Reclamation (3) Biological and physical technology, selection and design of pumps and delivery systems, and point-of-use water treatment processes; soil-based wastewater renovation principles, and design and operating criteria for on-site wastewater renovation systems. Prereq: 506. 2 hrs and 1 lab. Sp.

542 Simulation of Agricultural Systems (3) Synthesis and analysis of agricultural systems using computer simulation, philosophy of system simulation, critical path, discrete and continuous systems. Prereq: 506 and scientific computer programming. 2 hrs and 1 lab. F,A
Agriculture
(College of Agricultural Sciences and Natural Resources)

GRADUATE COURSES

512 Teaching Internship in Agriculture (1) Supervised experience in teaching; test preparation and evaluation of agriculture students. May be repeated. Maximum 2 hrs for M.S. students; 4 hrs for Ph.D. students.

Animal Science
(College of Agricultural Sciences and Natural Resources and College of Veterinary Medicine)

MAJOR DEGREES

Animal Science ......................... M.S., Ph.D.
Veterinary Medicine .................... D.V.M.

Kelly Robbins, Head

Professors:

Barth, K. M. (Emeritus), Ph.D. ....... Rutgers
Bell, M. C. (Emeritus), Ph.D., .... Oklahoma State
Blethen, J. K. (Emeritus), Ph.D., .... Ohio State
Chamberlain, C. C. (Emeritus), Ph.D., Iowa State
Erickson, B. H. (Emeritus), Ph.D., Kansas State
Godkin, J. D. (Liaison), Ph.D., ....... Massachusetts
Hall, O. G., Ph.D. ....................... Iowa State
Hansard, S. L. (Emeritus), Ph.D., .... Florida
Henry, R. W., D.V.M., Ph.D., ...... Ohio
Lidvall, E. R. (Emeritus), M.S., ...... Tennessee
McDonald, T. P., Ph.D., ............. Pennsylvania
McLaren, J. B. (Emeritus), Ph.D., ..... Auburn
Murphey, R. L. (Emeritus), Ph.D., Wisconsin
Oliver, S. P., Ph.D. ..................... Ohio State
Richardson, D. O., Ph.D., ............ Ohio State
Robbins, K. R., Ph.D., ............... Illinois
Saxton, A., Ph.D. ...................... New York State
Shirley, H. V. (Emeritus), Ph.D., ...... Illinois
Schultz, T. W., Ph.D., ............... Pennsylvania
Sims, M. H., Ph.D., ................. Auburn
Tugwell, R. L. (Emeritus), Ph.D., .... Kansas State

Associate Professors:

Backus, W. R., Ph.D., ................. Tennessee
Bell, B. R., Ph.D., .................... North Carolina
Biller, H., D.V.M., Ph.D., .......... North Carolina
Billett, J. H., Ph.D., .......... Illinois
Heltmann, R. N., Ph.D., ......... Maine
Kattke, H. G., Ph.D., .............. Virginia
Masincup, F. B., Ph.D., ............ Kansas State
Quigley, J. D., Ph.D., ............... Virginia Tech
Smith, M. O., Ph.D., .............. Oklahoma State
Waller, J. C., Ph.D., ............... Nebraska

Assistant Professors:

Grizzle, J. M., Ph.D., ............... Florida
Hollingsworth-Jenkins, K., Ph.D., .... Nebraska
Mathew, A. G., Ph.D., ............. Purdue

Mendis-Handagama, L. C., D.V.M., Ph.D. .................................. Monash
Schrick, F. N., Ph.D. ................. Clemson
Smalling, J. D., Ph.D. ............. Texas A&M

The Department of Animal Science offers graduate programs leading to the Master of Science and Doctor of Philosophy with a major in Animal Science. At the M.S. level, areas of concentration are nutrition, breeding, physiology (reproductive, mammary, and metabolic), and management with orientation towards beef, dairy, cattle, swine, and poultry. Since the department is also associated with the College of Veterinary Medicine, the areas of anatomy, systemic physiology (blood, cardiovascular, and neural), and histology are also available. The Ph.D. program offers concentrations in animal nutrition, animal breeding, animal physiology, animal anatomy, and animal management. For specific information, contact the department head.

During the first fall term of matriculation in each degree program, all graduate students are required to enroll in 595. All first- and second-year students are required to enroll in 596 each fall and each spring term.

THE MASTER'S PROGRAM

For admission to the M.S. program, a student must have obtained a 3.0 grade-point average on a 4.0 scale (or equivalent) during the junior and senior years in a completed undergraduate degree program in one of the animal sciences or in a related area. The student must also meet the requirements of recommendation, personal interview, etc. that indicates ability to complete requirements for the M.S. degree. Prerequisite courses may be required if the student lacks undergraduate background. If the student has an unsatisfactory grade-point average, acceptance may be on a probationary (non-degree) basis and a minimum of 9 hours of graduate coursework must be completed the first term with a minimum grade-point average of 3.0 for admission to the M.S. program.

The program requires the writing of a thesis based on original research; the completion of a minimum of 24 hours of graduate coursework of which at least 14 hours must be taken in courses numbered at or above the 500 level; and 8 hours of thesis. Included in the course requirement is 1 hour of Agriculture 512 and a minimum of 3 hours in statistics. These statistics courses must be chosen from the 400, 500, or 600 level of courses. Courses numbered at or above the 500 level must be outside the management concentration of Animal Science. A total of 12 hours (including thesis, courses numbered at or above the 500 level) must be completed. At least 8 out of the 12 hours must be completed at the University of Georgia.

THE DOCTORAL PROGRAM

The doctoral program requires a minimum of 48 semester hours of coursework beyond the B.S. and a maximum of 24 hours of doctoral research and dissertation. The 48 hours of coursework must include:

1. A minimum of 12 hours in related fields outside of animal science.
2. At least 24 hours credit at the 500 and 600 level, exclusive of doctoral research and dissertation, of which a minimum of 6 hours must be at the 600 level. Students in the nutrition, breeding, physiology, or anatomy concentration must complete at least 12 hours at the 500 and 600 level in the respective concentration or closely related area. Students in the management concentration must complete Animal Science 561 and 8 hours at the 500 or 600 level in two non-management concentrations for a total of 12 hours (including 581).
3. A minimum of 1 hour of Agriculture 512 in addition to that required at the M.S. level.
4. A minimum of 6 hours at the 500, 550, or 600 level in two or more statistics courses approved by the advisory committee.

A minimum of five faculty members will constitute the student's advisory committee, of which at least one must be outside Animal Science. The major professor is the chairperson. The student and the major professor select a program of study depending on the student's area of concentration and professional goal. The advisory committee approves the coursework and the dissertation research proposal and determines if it is a foreign language requirement. The advisory committee conducts the comprehensive written examination and the final dissertation defense examination.

GRADUATE COURSES

420 Advanced Reproduction (3) Collection, evaluation, and preservation of ovum, spermatozoa and embryos; application of methods of artificial insemination and embryo transfer; herd sire and dam evaluation; pregnancy determination; gestation and parturition; infertility; recent advances in therapeutic techniques of artificial reproduction. Prerequisites: 320 or equivalent. 1 hr and 2 labs. F

430 Advanced Ration Formulation (2) Advanced ration formulation for beef and dairy cattle, sheep, horses, swine, poultry, laboratory, zoo, and companion animals. Mathematical and computer solutions and applications to formulating complex rations with constraints. Prerequisites: 330 or equivalent and introductory computer science course. 2 labs. Sp

440 Advanced Animal Breeding (2) Computer simulation of genetic improvement for multiple traits in swine, beef, and dairy cattle; evaluation of alternative breeding strategies; traditional programs in swine, poultry, sheep, beef, and dairy cattle; breed development, improvement, and utilization. Prerequisite: 340 or equivalent. 1 hr and 1 lab. Sp

481 Beef Cattle Production and Management (3) Integration of principles of nutrition, breeding, physiology, and marketing into complete production and management programs. Structure of industry, enterprise establishment, systems of production, production practices, and improvement programs. Management evaluated in terms of production responses and economic returns. Prerequisites: Completion of 350-level core courses or consent of instructor. 2 hrs and 1 lab. Sp

482 Dairy Cattle Production and Management (3) Integration of principles of nutrition, breeding, physiology, and marketing into complete production and management programs. Structure of industry, enterprise establishment, systems of production, production practices, and improvement programs. Management evaluated in terms of production responses and economic returns. Prerequisites: Completion of 350-level core courses or consent of instructor. 2 hrs and 1 lab. Sp
Animal Science—Veterinary Medicine

See College of Veterinary Medicine and Comparative and Experimental Medicine

500 Thesis (1-15) P/NP only. E

503 Animal Nutrition and Metabolism (4) Comparative digestion physiology, digestion, absorption, and metabolism of nutrients in ruminant and non-ruminant species. Systems approach to nutrient requirements; interactions, availability and utilization of nutrients. Prereq: Animal Nutrition, Feeds, and Ration Formulation or consent of instructor. F, Sp

505 Advanced Mammalian Reproduction (3) Current topics and new frontiers in reproductive biology. Prereq: 322, Sp, A

511 Special Problems in Animal Science (1-4) Prereq: Consent of instructor and department head. May be repeated. Maximum 9 hrs. E


527 Advanced Mammalian Reproduction (3) Current topics and new frontiers in reproductive biology. Prereq: 322, Sp, A

530 Animal Nutrition and Metabolism (4) Comparative digestive physiology, digestion, absorption, and metabolism of nutrients in ruminant and non-ruminant species. Systems approach to nutrient requirements; interactions, availability and utilization of nutrients. Prereq: Animal Nutrition, Feeds, and Ration Formulation or consent of instructor. F, A

531 Analytical Techniques in Animal Science (3) Principles, concepts, and methods applied to characterization, quantification, and mechanistic study of cells, organs, and biologically active molecules. Demonstration of methodology: nutrient analyses, histology, and ultrastructural morphology, immunology, competitive binding assays, protein biochemistry, and molecular biology. Prereq: Organic Chemistry and Lab or equivalent. 1 hr and 2 labs. S/NC only. Sp

536 Ruminometry (2) Anatomy, physiology, and microbiology of ruminates: rumen ecosystems; microbial fermentation and metabolism of polysaccharides, lipids and nitrogen. Prereq: 530 or consent of instructor. Sp

538 Nutritional Aspects of Companion Animal Health (2) Nutritional concepts applied to veterinary management of normal and overweight states for pets including cats, dogs, horses and exotic species. (Same as Comparative and Experimental Medicine—Veterinary Medicine 538.) Sp

551 Mammalian Organology (3) Microscopic study of structure of mammalian organ systems. Prereq: Embryology, histology and/or consent of instructor. 2 hrs and 1 lab. (Same as Comparative and Experimental Medicine—Veterinary Medicine 551.) Sp

552 Anatomy of Domestic Carnivores (4) Gross dissection of systems and regions of dog with comparison to cat. Prereq: Consent of instructor. 1 hr and 3 labs.