



THE UNIVERSITY OF  
**TENNESSEE**  
KNOXVILLE

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GRADUATE SCHOOL

# **Majors, Degrees, and Certificate Programs**

**2023-2024**





**gradschool.utk.edu**

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# Graduate Majors, Degrees and Certificate Programs 2023–2024

Below is a list of all graduate degree programs offered at the University of Tennessee, Knoxville. A degree or certificate is awarded upon completion of a specified program of study in a major field. Degree titles are posted on transcripts and diplomas. Titles of majors are posted on transcripts. A formally approved subcomponent of a degree program is a concentration. The current Graduate School Catalog may be viewed online at [tiny.utk.edu/grad-catalog](http://tiny.utk.edu/grad-catalog).

## Herbert College of Agriculture

### Agricultural Leadership, Education and Communications

#### Agricultural Leadership, Education and Communications MS

- Agricultural Communications, Agricultural Education, Agricultural Leadership

### Agricultural and Resource Economics

#### Agricultural and Resource Economics MS

- Agricultural Economics, Natural Resource Economics

#### Agricultural and Resource Economics MS-MBA

### Animal Science

#### Animal Science MS

#### Animal Science PhD

#### Animal Science/Veterinary Medicine MS-DVM

### Biosystems Engineering and Soil Science

#### Biosystems Engineering MS

#### Biosystems Engineering Technology MS

#### Biosystems Engineering PhD

- Energy Science and Engineering

#### Environmental and Soil Sciences MS



### Entomology and Plant Pathology

#### Entomology and Plant Pathology MS

- Bioinformatics and Genomics, Entomology, Plant Pathology

#### Entomology, Plant Pathology and Nematology PhD

- Bioinformatics, Genomics and Molecular Interactions; Organismal Biology, Ecology and Systematics; Sustainable Disease and Integrated Pest Management

### Food Science

#### Food Science MS

#### Food Science PhD

## School of Natural Resources

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### Forestry MS

- Bio-based Products and Wood Science and Technology, Forest Business

### Natural Resources PhD

- Bio-based Products and Wood Science and Technology, Natural Resource Economics, Wildlife Health

## Plant Sciences

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### Plant Sciences MS

- Crop Sciences, Horticulture, Plant Breeding, Plant Molecular Genetics, Weed Science

## Interdepartmental

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### Plant, Soil, and Environmental Sciences PhD

- Crop Sciences, Environmental and Soil Sciences, Horticulture, Plant Breeding, Plant Molecular Genetics, Weed Science

# College of Architecture & Design

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## School of Architecture

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### Architecture MArch

- Computational Design and Fabrication, Conservation and Stewardship, Sustainable Design, Urbanism

## School of Landscape Architecture

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### Landscape Architecture MLA

### Landscape Architecture MSLA

### Landscape Architecture MALA

### Landscape Architecture/Architecture MLA-MArch

# College of Arts & Sciences

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## Africana Studies

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### Graduate Certificate in Africana Studies

## Anthropology

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### Anthropology MA

- Archaeology, Biological Anthropology, Cultural Anthropology, Mediterranean Archaeology

### Anthropology PhD

- Archaeology, Biological Anthropology, Cultural Anthropology

### Graduate Certificate in Disasters, Displacement and Human Rights

## School of Art

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### Art MFA

- Ceramics, Painting/Drawing, Printmaking, Sculpture, Time-Based Art

### Graduate Certificate in Cinema Studies



## Biochemistry & Cellular and Molecular Biology

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Biochemistry & Cellular and Molecular Biology MS

Biochemistry & Cellular and Molecular Biology PhD

## Chemistry

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Chemistry MS

- Analytical Chemistry, Environmental Chemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Polymer Chemistry

Chemistry PhD

- Analytical Chemistry, Chemical Physics, Environmental Chemistry, Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Polymer Chemistry, Theoretical Chemistry

Graduate Certificate in Radiochemistry

## Earth and Planetary Sciences

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Geology MS

Geology PhD

## Ecology and Evolutionary Biology

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Ecology and Evolutionary Biology MS

- Behavior, Ecology, Evolutionary Biology

Ecology and Evolutionary Biology PhD

- Behavior, Ecology, Energy Science and Engineering, Evolutionary Biology

## English

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English MA

- Literature, Criticism & Textual Studies; Rhetoric, Writing & Linguistics

Creative Writing MFA

English PhD

- Creative Writing; Literature, Criticism & Textual Studies; Rhetoric, Writing & Linguistics

Graduate Certificate in Digital Humanities



## Geography and Sustainability

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Geography MS

Geography PhD

## History

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History MA

History PhD

- American History, European History

## Mathematics

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Mathematics MMath

Mathematics MS

Mathematics PhD

- Mathematical Biology

Graduate Certificate in Mathematics

## Microbiology

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Microbiology MS

Microbiology PhD

Graduate Certificate in Cell Biology Imaging and Quantification

Graduate Certificate in Bio-Mathematical and Statistical Analysis

Graduate Certificate in Biomolecular Analysis

Graduate Certificate in Field Biology Analytical Techniques



## World Languages and Cultures

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### French MA

### German MA

### Spanish MA

- Applied Linguistics and Second Language Studies, Literary and Cultural Studies

### Modern Foreign Languages PhD

- First Concentration: French, German, Spanish
- Second Concentration: Applied Linguistics, French, German, Italian, Latin American Studies, Portuguese, Russian, Spanish

### Graduate Certificate in Translation Studies

## Philosophy

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### Philosophy MA

### Philosophy PhD

### Philosophy/Law MA-JD

## Physics and Astronomy

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### Physics MS

- Astrophysics; Atomic, Molecular, Optical, and Low Temperature Physics; Biophysics; Chemical Physics; Condensed Matter and Surface Physics; Elementary Particle Physics; Geophysics; Mathematical and Computational Physics; Nuclear and Relativistic Heavy Ion Physics; Theoretical Physics

### Physics PhD

- Astrophysics; Atomic, Molecular, Optical, and Low Temperature Physics; Biophysics; Chemical Physics; Condensed Matter and Surface Physics; Elementary Particle Physics; Energy Science and Engineering; Mathematical and Computational Physics; Nanomaterials; Nuclear and Relativistic Heavy Ion Physics; Theoretical Physics

## Political Science

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### Political Science MA

### Political Science PhD

### Graduate Certificate in Global Security Studies

## Psychology

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### Psychology MA

- Experimental Psychology, General Psychology

### Psychology PhD

- Clinical Psychology, Counseling Psychology, Experimental Psychology

## Religious Studies

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### Graduate Certificate in Religious Studies

## Sociology

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### Sociology MA

- Applied Sociology, Criminology, Critical Race and Ethnic Studies, Environmental Sociology, Political Economy and Globalization

### Sociology PhD

- Criminology, Critical Race and Ethnic Studies, Environmental Sociology, Political Economy and Globalization

### Graduate Certificate in Global Studies

## Theatre

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### Theatre MFA

- Acting, Costume Design, Lighting Design, Scene Design, Sound and Digital Media



## Interdisciplinary Programs

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### Graduate Certificate in Linguistics

### Graduate Certificate in Medieval Studies

### Graduate Certificate in Social Theory

### Graduate Certificate in Women, Gender and Sexuality

# Haslam College of Business

## Accounting & Information Management

### Accounting MAcc

- Audit and Controls, Information Management, Taxation

### Business Cybersecurity MS

## Business Analytics and Statistics

### Business Analytics MS

### Business Analytics MS-MBA

### Management Science PhD

- Analytics

### Statistics MS

- Intercollegiate Graduate Statistics and Data Science

## Economics

### Economics MA

### Economics PhD

## Management and Entrepreneurship

### Management and Human Resources MS

### Management and Human Resources MBA

- Consulting

## Marketing

### Marketing MS

### Business Administration PhD

- Marketing

## Supply Chain Management

### Business Administration MBA

- Supply Chain Management

### Supply Chain Management MS

- Integrated Supply Chain, Tri-Continent Supply Chain

### Business Administration PhD

- Supply Chain Management

### Graduate Certificate in Supply Chain Management

## Interdepartmental

### Business Administration MBA

- Business Analytics, Entrepreneurship and Innovation, Finance, Online MBA

### MBA Programs for Working Professionals

### Business Administration MBA

- Aerospace and Defense, Physician Executive, Professional, Executive

### Business Administration MBA-JD

### Business Administration MBA-MS

- available with Herbert College of Agriculture and Tickle College of Engineering

### Business Administration MBA-PharmD

- available with UT Health Science Center)

### Business Administration PhD

- Accounting; Finance; Strategy, Entrepreneurship and Organizations; Statistics





# College of Communication & Information

## Interdepartmental

### Communication and Information MS

- Advertising, Public Relations, Advertising and Public Relations 4+1, Communication Studies, Journalism and Electronic Media, Strategic and Digital Communication

### Communication and Information PhD

- Advertising, Public Relations, Communication Studies, Journalism and Electronic Media, Information Science

## School of Information Sciences

### Information Sciences MS

### Graduate Certificate in School Librarianship

### Graduate Certificate in Research Data Management

### Graduate Certificate in Youth Informatics

# College of Education, Health & Human Sciences

## Child and Family Studies

### Child and Family Studies MS

- General-Emphasis, Early Childhood Education Integrated PreK-3

### Child and Family Studies PhD

### Graduate Certificate in International Children, Youth, and Families

## Educational Leadership & Policy Studies

### College Student Personnel MS

### Education MS

- Evaluation Methodology

### Educational Administration MS

- Higher Education Administration (*specializations: Leadership Academy or Online Leadership Studies*)

### Education EdS

- Educational Administration (*specializations: Leadership Academy or Online Leadership Studies*)

### Education PhD

- Adult and Continuing Education, Leadership Studies in Education

### Educational Leadership EdD

### Evaluation, Statistics, and Methodology PhD

### Higher Education Administration PhD

### Graduate Certificate in Instructional Leadership



### Graduate Certificate in Evaluation, Statistics, and Methodology

### Graduate Certificate in Qualitative Research Methods in Education

## Educational Psychology & Counseling

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### Counseling MS

- Clinical Mental Health Counseling, School Counseling

### Counselor Education PhD

### Education EdS

- School Psychology

### Education PhD

- Learning Environments and Educational Studies

### Educational Psychology MS

- Adult Education, Applied Educational Psychology

### Educational Psychology and Research PhD

- Applied Educational Psychology

### School Psychology PhD

### Graduate Certificate in Adult Learning in Professional Settings

### Graduate Certificate in Grief, Loss, and Trauma



## Kinesiology, Recreation, and Sport Studies

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### Kinesiology MS

- Biomechanics, Exercise Physiology, Sport Psychology and Motor Behavior

### Kinesiology and Sport Studies PhD

- Kinesiology, Sport Studies

### Recreation and Sport Management MS

- Sport Management, Therapeutic Recreation

## Nutrition

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### Nutrition MS

- Biomedical Nutrition Science, Clinical Nutrition and Dietetics, Community Nutrition, Public Health Nutrition

### Nutrition/Public Health MS-MPH

### Nutritional Sciences PhD

- Biomedical Nutrition Science, Implementation Science in Community Nutrition

## Public Health

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### Public Health MPH

- Community Health Education, Epidemiology, Health Policy and Management, Public Health Nutrition, Veterinary Public Health

### Public Health/Veterinary Medicine MPH-DVM

### Public Health/Nutrition MPH-MS

### Public Health Sciences PhD

### Graduate Certificate in Food Safety

## Retail, Hospitality, and Tourism Management

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### Retail, Hospitality, and Tourism Management PhD

## Theory and Practice in Teacher Education

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### Education MS

- Instructional Technology

### Education PhD

- Learning, Design, and Technology; Literacy Studies; Special Education, Deaf Education, and Interpreter Education; Teacher Education

### Teacher Education MS

- Applied Behavior Analysis, Educational Studies, Practitioner
- *For Professional Internship Initial Licensure:* Art Education Professional Internship, ASL Education Professional Internship, Deaf Education Professional Internship, Elementary Education Professional Internship, English Education and English as a Second Language Professional Internship, Mathematics Education Professional Internship, Science Education Professional Internship, Social Sciences Education Professional Internship, Special Education



Professional Internship, World Languages  
Education Professional Internship

### **Teacher Education EdS**

- Applied Behavior Analysis, Art Education, Educational Technology, Elementary Education, English Education, Literacy Education, Mathematics Education, Practitioner, Science Education, Social Science Education, Special Education, Teaching & Learning, World Languages/ESL Education

### **Graduate Certificate in Art Education (K-12)**

### **Graduate Certificate in American Sign Language Education**

### **Graduate Certificate in Deaf Education (PreK-12)**

### **Graduate Certificate in Educational Data Science**

### **Graduate Certificate in Educational Technology**

### **Graduate Certificate in Elementary Education**

### **Graduate Certificate in English as a Second Language (PreK-12)**

### **Graduate Certificate in Literacy Specialist**

### **Graduate Certificate in Online Teaching and Learning**

### **Graduate Certificate in Secondary English Education**

### **Graduate Certificate in Secondary Mathematics Education**

### **Graduate Certificate in Secondary Science Education**

### **Graduate Certificate in Secondary Social Science Education**

### **Graduate Certificate in Social Justice Education**

### **Graduate Certificate in Special Education Comprehensive K-12**

### **Graduate Certificate in Special Education Interventionist K-8 & 6-12**

### **Graduate Certificate in STEM Leadership**

### **Graduate Certificate in World Languages (PreK-12)**

### **Graduate Certificate in Writing for Children and Teens**



# Tickle College of Engineering

## Chemical and Biomolecular Engineering

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### Chemical Engineering MS

### Chemical Engineering MS-MBA

### Chemical Engineering PhD

- Energy Science and Engineering

## Civil and Environmental Engineering

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### Civil Engineering MS

- Construction Engineering, Geotechnical/Materials Engineering, Public Works Engineering, Structural Engineering, Transportation and Infrastructure Engineering, Transportation Engineering

### Civil Engineering MS-MBA

### Civil Engineering PhD

- Climate Impacts Engineering, Construction Engineering, Energy Science and Engineering, Environmental Engineering, Geotechnical/Materials Engineering, Public Works Engineering, Structural Engineering, Transportation Engineering, Water Resources Engineering

### Environmental Engineering MS

- Water Resources Engineering

### Environmental Engineering MS-MBA

## Electrical Engineering and Computer Science

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### Computer Engineering MS

### Computer Engineering MS-MBA

### Computer Engineering PhD

- Energy Science and Engineering

### Computer Science MS

- Cybersecurity, Data Analytics, Data Mining and Intelligent Systems, Intelligent Systems and Machine Learning, Software Engineering

### Computer Science MS-MBA

### Computer Science PhD

- Data Analytics, Energy Science and Engineering, Intelligent Systems and Machine Learning

### Electrical Engineering MS

- Power Electronics

### Electrical Engineering MS-MBA

### Electrical Engineering PhD

- Energy Science and Engineering, Power Electronics

### Graduate Certificate in Artificial Intelligence and Machine Learning

### Graduate Certificate in Fire Protection Engineering

### Graduate Certificate in Power & Energy Systems

### Graduate Certificate in Wide Bandgap Power Electronics



## Engineering Fundamentals

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### Graduate Certificate in Fundamentals of Engineering & Computer Teaching in Higher Education

## Industrial and Systems Engineering

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### Engineering Management MS

### Industrial Engineering MS

- Automotive Manufacturing, Systems Engineering

### Industrial Engineering PhD

- Energy Science and Engineering, Engineering Management

### Industrial Engineering MS-MBA

### Graduate Certificate in Data-Driven Decision-Making

### Graduate Certificate in Engineering Management



## Materials Science and Engineering

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### Materials Science and Engineering MS

- Automotive Materials, Nanomaterials

### Materials Science and Engineering MS-MBA

### Materials Science and Engineering PhD

- Automotive Materials, Energy Science and Engineering, Nanomaterials

## Mechanical, Aerospace and Biomedical Engineering

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### Aerospace Engineering MS

- Applied Mechanics, Nuclear Space Science and Engineering, Systems and Controls, Thermal-Fluid Mechanics

### Aerospace Engineering MS-MBA

### Aerospace Engineering PhD

- Applied Mechanics, Energy Science and Engineering, Nuclear Space Science and Engineering, Systems and Controls, Thermal-Fluid Mechanics

### Biomedical Engineering MS

- Biomechanics, Materials, Nuclear Space Science and Engineering, Robotics, Theranostics

### Biomedical Engineering MS-MBA

### Biomedical Engineering PhD

- Biomechanics, Materials, Nuclear Space Science and Engineering, Robotics, Theranostics, Energy Science and Engineering

### Mechanical Engineering MS

- Applied Mechanics, Automotive Manufacturing Simulation and Design, Nuclear Space Science and Engineering, Systems and Controls, Thermal-Fluid Mechanics

### Mechanical Engineering MS-MBA

### Mechanical Engineering PhD

- Applied Mechanics, Automotive Manufacturing Simulation and Design, Nuclear Space Science and Engineering, Energy Science and Engineering, Systems and Controls, Thermal-Fluid Mechanics

### Graduate Certificate in Advanced Manufacturing

### Graduate Certificate in Hypersonics

## Nuclear Engineering

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### Medical Physics MS

### Nuclear Engineering MS

- Nuclear Safety, Radiological Engineering

### Nuclear Engineering MS-MBA

### Nuclear Engineering PhD

- Energy Science and Engineering, Nuclear Safety, Radiological Engineering

### Graduate Certificate in Medical Physics

### Graduate Certificate in Nuclear Security Science and Analysis

## Interdepartmental

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### Engineering Science MS

- Aerospace Engineering, Biomedical Engineering, Civil Engineering, Environmental Engineering, Mechanical Engineering

### Engineering Science MS-MBA

### Engineering Science PhD

- Aerospace Engineering, Biomedical Engineering, Civil Engineering, Energy Science and Engineering, Environmental Engineering, Mechanical Engineering

### Reliability and Maintainability Engineering MS

- Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Computer Engineering, Electrical Engineering, Industrial Engineering, Materials Science and Engineering, Mechanical Engineering, Nuclear Engineering

### Reliability and Maintainability Engineering MS-MBA

### Graduate Certificate in Reliability and Maintainability Engineering: Chemical Engineering

### Graduate Certificate in Reliability and Maintainability Engineering: Computer Engineering

### Graduate Certificate in Reliability and Maintainability Engineering: Electrical Engineering

### Graduate Certificate in Reliability and Maintainability Engineering: Industrial Engineering

### Graduate Certificate in Reliability and Maintainability Engineering: Mechanical Engineering

### Graduate Certificate in Reliability and Maintainability Engineering: Nuclear Engineering

# College of Law

## Law MLSD

### Law JD

- Advocacy and Dispute Resolution, Business Transactions

### Law/Philosophy JD-MA

### Law/Business Administration JD-MBA

## Law/Public Policy and Administration JD-MPPA

### Law/Social Work JD-MSSW

### Law/Social Work MLSD-MSSW

### Graduate Certificate in Law and Social Welfare

### Graduate Certificate in Legal Studies

# College of Music

## Music MMusic

- Choral Conducting, Collaborative Piano, Composition, Instrumental Conducting, Jazz, Music Education, Music Theory, Musicology, Performance (*Organ, Percussion, Piano, Strings, Voice or Winds*)

### Artist Certificate in Brass Performance

### Artist Certificate in Keyboard Performance

### Artist Certificate in String Performance

### Artist Certificate in Percussion Performance

### Artist Certificate in Voice Performance

### Artist Certificate in Woodwind Performance

### Graduate Certificate in Music Theory Pedagogy

# College of Nursing

## Nursing DNP

- Family Nurse Practitioner, Nurse Anesthesia, Nurse Executive Practice, Pediatric Primary Care Nurse Practitioner, Pediatric Primary/Acute Care Dual Nurse Practitioner, Psychiatric Mental Health Nurse Practitioner

## Nursing PhD

### Graduate Certificate in Family Nurse Practitioner

### Graduate Certificate in Health Policy

### Graduate Certificate in Healthcare Informatics

### Graduate Certificate in Nurse Executive Practice

### Graduate Certificate in Nursing Education

### Graduate Certificate in Pediatric Acute Care Nurse Practitioner

### Graduate Certificate in Pediatric Nurse Practitioner

### Graduate Certificate in Psychiatric Mental Health Nurse Practitioner





# College of Social Work

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## Social Work MSSW

- Clinical Practice, Organizational Leadership

## Social Work/Law MSSW-MLSD

## Social Work/Law MSSW-JD

## Social Work DSW

## Social Work PhD

## Graduate Certificate in Forensic Social Work

## Graduate Certificate in Gerontology

## Graduate Certificate in Trauma Treatment

## Graduate Certificate in Veterinary Social Work

# College of Veterinary Medicine

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## Veterinary Medicine DVM

## Veterinary Medicine/Animal Science DVM-MS

## Veterinary Medicine/Comparative and Experimental Medicine DVM-MS

## Veterinary Medicine/Public Health DVM-MPH

## Veterinary Medicine/Comparative and Experimental Medicine DVM-PhD

# Howard H. Baker School of Public Policy and Public Affairs

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## Public Policy and Administration MPPA

## Public Policy and Administration MPPA-JD

# Intercollegiate Programs

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## Comparative and Experimental Medicine

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### Comparative and Experimental Medicine MS

- Forensic Odontology

### Comparative and Experimental Medicine PhD

### Comparative and Experimental Medicine/Veterinary Medicine MS-DVM

### Comparative and Experimental Medicine/Veterinary Medicine PhD-DVM

## Bredesen Center for Interdisciplinary Research and Graduate Education

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### Data Science and Engineering PhD

### Energy Science and Engineering PhD

### Life Sciences MS

- Genome Science and Technology, Plant Physiology and Genetics

### Life Sciences PhD

- Genome Science and Technology, Plant Physiology and Genetics

# Get More Information

The University of Tennessee would like to hear from you with any questions you may have about our degree programs and graduate certificates.

## Graduate School

111 Student Services Building, Knoxville, TN 37996-0211  
865-974-2475 • [gradschool@utk.edu](mailto:gradschool@utk.edu)

## Graduate Catalog

The Graduate Catalog is the definitive guide to course offerings, degree and certificate requirements, academic policies, and much more. You can get to the most recent version of the Graduate Catalog at [tiny.utk.edu/grad-catalog](http://tiny.utk.edu/grad-catalog).

## Directors of Graduate Studies

Degree and certificate programs at UT have Directors of Graduate Studies who can help you find out more specific information about your desired program. You can get a list of all Directors of Graduate Studies and their contact information at [tiny.utk.edu/dgs-roster](http://tiny.utk.edu/dgs-roster).



All qualified applicants will receive equal consideration for employment and admission without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or mental disability, genetic information, veteran status, and parental status. In accordance with the requirements of Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990, the University of Tennessee affirmatively states that it does not discriminate on the basis of race, sex, or disability in its education programs and activities, and this policy extends to employment by the university. Inquiries and charges of violation of Title VI (race, color, and national origin), Title IX (sex), Section 504 (disability), the ADA (disability), the Age Discrimination in Employment Act (age), sexual orientation, or veteran status should be directed to the Office of Equity and Diversity, 1840 Melrose Avenue, Knoxville, TN 37996-3560, telephone 865-974-2498. Requests for accommodation of a disability should be directed to the ADA Coordinator at the Office of Equity and Diversity.