Graduate Majors, Degrees & Certificate Programs

2023-2024 Academic Year

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 and certificates are posted on transcripts. A formally approved sub-component of a degree program is a concentration. The current Graduate School Catalog may be viewed online at tiny.utk.edu/grad-catalog.

Herbert College of Agriculture

Agricultural Leadership, Education and Communications
- Agricultural Leadership, Education and Communications MS
  - Concentrations: Agricultural Communications, Agricultural Education, Agricultural Leadership

Agricultural and Resource Economics
- Agricultural and Resource Economics MS
  - Concentrations: Agricultural Economics, Natural Resource Economics
- Dual MS-MBA Agricultural and Resource Economics/Business Administration

Animal Science
- Animal Science MS
- Animal Science PhD
- Dual MS-DVM Animal Science/Veterinary Medicine

Biosystems Engineering and Soil Science
- Biosystems Engineering MS
- Biosystems Engineering Technology MS
- Biosystems Engineering PhD
  - Concentrations: Energy Science and Engineering
• Environmental and Soil Sciences MS
• Plant, Soil and Environmental Sciences PhD: Environmental and Soil Sciences

**Entomology and Plant Pathology**
• Entomology and Plant Pathology MS
  ◦ Concentrations: Bioinformatics and Genomics, Entomology, Plant Pathology
• Entomology, Plant Pathology and Nematology PhD
  ◦ Concentrations: Bioinformatics, Genomics and Molecular Interactions; Organismal Biology, Ecology and Systematics; Sustainable Disease and Integrated Pest Management

**Food Science**
• Food Science MS
• Food Science PhD
  ◦ Concentrations: Food Chemistry, Food Microbiology, Food Processing, Sensory Science

**Natural Resources, School of**
• Forestry MS
  ◦ Concentrations: Bio-based Products and Wood Science and Technology, Forest Business
• Natural Resources PhD
  ◦ Concentrations: Bio-based Products and Wood Science and Technology, Natural Resource Economics, Wildlife Health
• Wildlife and Fisheries Science MS
  ◦ Concentrations: Wildlife Health

**Plant Sciences**
• Plant Sciences MS
  ◦ Concentrations: Crop Sciences, Horticulture, Plant Breeding, Plant Molecular Genetics, Weed Science
• Plant, Soil, and Environmental Sciences PhD
  ◦ Concentrations: Crop Sciences, Horticulture, Plant Breeding, Plant Molecular Genetics, Weed Science

**College of Architecture and Design**

**Architecture, School of**
• Architecture MArch
Graduate Majors, Degrees and Certificate Programs - 3

- Concentrations: Computational Design and Fabrication, Conservation and Stewardship, Sustainable Design, Urbanism
- Dual MArch-MLA Architecture/Landscape Architecture

**Landscape Architecture, School of**
- Landscape Architecture MLA
- Landscape Architecture MSLA
- Landscape Architecture MALA
- Dual MLA-MArch Landscape Architecture/Architecture

**College of Arts and Sciences**

**Africana Studies**
- Africana Studies Graduate Certificate

**Anthropology**
- Anthropology MA
  - Concentrations: Archaeology, Biological Anthropology, Cultural Anthropology, Mediterranean Archaeology
- Anthropology PhD
  - Concentrations: Archaeology, Biological Anthropology, Cultural Anthropology
- Disasters, Displacement and Human Rights Graduate Certificate

**Art, School of**
- Art MFA
  - Concentrations: Ceramics, Painting/Drawing, Printmaking, Sculpture, Time-Based Art
- Cinema Studies Graduate Certificate

**Biochemistry and Cellular and Molecular Biology**
- Biochemistry and Cellular and Molecular Biology MS
- Biochemistry and Cellular and Molecular Biology PhD

**Chemistry**
- Chemistry MS
- Chemistry PhD

- Radiochemistry Graduate Certificate

**Earth and Planetary Sciences**
- Geology MS
- Geology PhD

**Ecology and Evolutionary Biology**
- Ecology and Evolutionary Biology MS
  - Concentrations: Behavior, Ecology, Evolutionary Biology
- Ecology and Evolutionary Biology PhD
  - Concentrations: Behavior, Ecology, Energy Science and Engineering, Evolutionary Biology

**English**
- English MA
  - Concentrations: Literature, Criticism & Textual Studies; Rhetoric, Writing & Linguistics
- English PhD
  - Concentrations: Creative Writing; Literature, Criticism & Textual Studies; Rhetoric, Writing & Linguistics
- Creative Writing MFA
- Digital Humanities Graduate Certificate

**Geography and Sustainability**
- Geography MS
- Geography PhD

**History**
- History MA
- History PhD
  - Concentrations: American History, European History

**Interdisciplinary Programs**
- Linguistics Graduate Certificate
- Medieval Studies Graduate Certificate
- Social Theory Graduate Certificate
• Women, Gender and Sexuality Graduate Certificate

Mathematics
• Mathematics MMath
• Mathematics MS
• Mathematics PhD
  ◦ Concentrations: Mathematical Biology
• Mathematics Graduate Certificate

Microbiology
• Microbiology MS
• Microbiology PhD
• Bio-Mathematical and Statistical Analysis Graduate Certificate
• Biomolecular Analysis Graduate Certificate
• Cell Biology Imaging and Quantification Graduate Certificate
• Field Biology Analytical Techniques Graduate Certificate

Philosophy
• Philosophy MA
• Philosophy PhD
• Dual MA-JD Philosophy/Law

Physics and Astronomy
• Physics MS
  ◦ Concentrations: 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
  ◦ Concentrations: 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
• Political Science MA
• Political Science PhD
• Global Security Studies Graduate Certificate
Psychology
- Psychology MA
  - Concentrations: Experimental Psychology, General Psychology
- Psychology PhD
  - Concentrations: Clinical Psychology, Counseling Psychology, Experimental Psychology

Religious Studies
- Religious Studies Graduate Certificate

Sociology
- Sociology MA
  - Concentrations: Applied Sociology, Criminology, Critical Race and Ethnic Studies, Environmental Sociology, Political Economy and Globalization
- Sociology PhD
  - Concentrations: Criminology, Critical Race and Ethnic Studies, Environmental Sociology, Political Economy and Globalization
- Global Studies Graduate Certificate

Theatre
- Theatre MFA
  - Concentrations: Acting, Costume Design, Lighting Design, Scene Design, Sound and Media Design

World Languages and Cultures
- French MA
- German MA
- Spanish MA
  - Concentrations: Applied Linguistics and Second Language Studies, Literary and Cultural Studies
- Modern Foreign Languages PhD
  - First Concentrations: French, German, Spanish
  - Second Concentrations: Applied Linguistics, French, German, Italian, Latin American Studies, Portuguese, Russian, Spanish
- Translation Studies Graduate
Haslam College of Business

Accounting and Information Management
- Accounting MAcc
  - Concentrations: Audit and Controls, Information Management, Taxation
- Business Cybersecurity MS

Business Analytics and Statistics
- Business Analytics MS
- Management Science PhD
  - Concentrations: Analytics
- Statistics MS
  - Concentrations: Intercollegiate Graduate Statistics and Data Science
- Dual MS-MBA Business Analytics/Business Administration

Economics
- Economics MA
- Economics PhD

Management & Entrepreneurship
- Management & Human Resources MS
- Business Administration MBA: Consulting

Interdepartmental
- Business Administration MBA
  - Concentrations: Business Analytics, Entrepreneurship and Innovation, Finance, Online MBA
- MBA Programs for Working Professionals
  - Business Administration MBA: Aerospace and Defense
  - Business Administration MBA: Physician Executive
  - Business Administration MBA: Professional
  - Business Administration MBA: Executive
- Business Administration PhD: Accounting
- Business Administration PhD: Finance
- Business Administration PhD: Strategy, Entrepreneurship and Organizations
- Business Administration PhD: Statistics
- Dual MBA-JD Business Administration/Law
• Dual MBA-MS (Available with Herbert College of Agriculture, Haslam College of Business, and Tickle College of Engineering)
• Dual MBA-PharmD Business Administration (Available with UT Health Science Center)

Marketing
• Marketing MS
• Business Administration PhD: Marketing

Supply Chain Management
• Business Administration MBA: Supply Chain Management
• Supply Chain Management MS
  ◦ Concentrations: Integrated Supply Chain, Tri-Continent Supply Chain
• Business Administration PhD: Supply Chain Management
• Supply Chain Management Graduate Certificate

College of Communication and Information

Tombras School of Advertising and Public Relations
• Communications and Information MS
  ◦ Concentrations: Advertising, Advertising and Public Relations, Public Relations
• Communications and Information PhD
  ◦ Concentrations: Advertising, Public Relations

Communication Studies, School of
• Communications and Information MS: Communication Studies
• Communications and Information PhD: Communication Studies

Information Sciences, School of
• Information Sciences MS
• Research Data Management Graduate Certificate
• School Librarianship Graduate Certificate
• Youth Informatics Graduate Certificate

Journalism and Electronic Media, School of
• Communications and Information MS: Journalism and Electronic Media
• Communications and Information PhD: Journalism and Electronic Media
Interdepartmental

- Communications and Information MS: Strategic and Digital Communication
- Communications and Information PhD: Information Science

College of Education, Health and Human Sciences

Child and Family Studies

- Child and Family Studies MS
  - Concentrations: General-Emphasis, Early Childhood Education Integrated PreK-3
- Child and Family Studies PhD
- International Children, Youth, and Families Graduate Certificate

Educational Leadership and Policy Studies

- College Student Personnel MS
- Education MS: Evaluation Methodology (Online)
- Educational Administration MS
  - Concentrations: Higher Education Administration, Instructional Leadership: Specialization - Leadership Academy, Instructional Leadership: Specialization - Online Leadership Studies
- Education EdS:
  - Concentrations: Educational Administration: Specialization - Leadership Academy, Educational Administration: Specialization - Online Leadership Studies
- Educational Leadership EdD
- Education PhD
  - Concentrations: Adult and Continuing Education, Leadership Studies in Education
- Evaluation, Statistics, and Methodology PhD
- Higher Education Administration PhD
- Evaluation, Statistics, and Methodology Graduate Certificate
- Instructional Leadership Graduate Certificate
- Qualitative Research Methods in Education Graduate Certificate

Educational Psychology and Counseling

- Counseling MS
  - Concentrations: Clinical Mental Health Counseling, School Counseling
- Counselor Education PhD
- Education EdS: School Psychology
- Education PhD: Learning Environments and Educational Studies
• Educational Psychology MS
  ◦ Concentrations: Adult Education, Applied Educational Psychology
• Educational Psychology and Research PhD: Applied Educational Psychology
• School Psychology PhD
• Adult Learning in Professional Studies Graduate Certificate
• Grief, Loss, and Trauma Graduate Certificate

Kinesiology, Recreation and Sport Studies
• Kinesiology MS
  ◦ Concentrations: Biomechanics, Exercise Physiology, Sport Psychology and Motor Behavior
• Kinesiology and Sport Studies PhD
  ◦ Concentrations: Kinesiology, Sport Studies
• Recreation and Sport Management MS
  ◦ Concentrations: Sport Management, Therapeutic Recreation

Nutrition
• Nutrition MS
  ◦ Concentrations: Biomedical Nutrition Science, Clinical Nutrition and Dietetics, Community Nutrition (Distance Education), Public Health Nutrition
• Nutritional Sciences PhD
  ◦ Concentrations: Biomedical Nutrition Science, Implementation Science in Community Nutrition
• Dual MS-MPH Nutrition/Public Health

Public Health
• Dual MPH-DVM Public Health/Veterinary Medicine
• Public Health MPH
  ◦ Concentrations: Community Health Education, Epidemiology, Health Policy and Management, Public Health Nutrition, Veterinary Public Health
• Public Health Sciences PHD
• Dual MPH-MS Public Health/Nutrition
• Food Safety Graduate Certificate

Retail, Hospitality and Tourism Management
• Retail, Hospitality, and Tourism Management PhD
Theory and Practice in Teacher Education

- Education MS: Instructional Technology
- Education PhD
  - Concentrations: Learning, Design, and Technology; Literacy Studies; Special Education, Deaf Education, and Interpreter Education; Teacher Education
- Teacher Education EdS
- Teacher Education MS
  - Concentrations: Applied Behavior Analysis, Art Education Professional Internship, ASL Education Professional Internship, Deaf Education Professional Internship, Educational Studies, Elementary Education Professional Internship, English Education and English as a Second Language Professional Internship, Mathematics Education Professional Internship, Practitioner, Science Education Professional Internship, Social Sciences Education Professional Internship, Special Education Professional Internship, World Language Education Professional Internship

- Art Education (K-12) Graduate Certificate
- American Sign Language Education Graduate Certificate
- Deaf Education Graduate Certificate
- Educational Data Science
- Educational Technology Graduate Certificate
- Elementary Education Graduate Certificate
- English as a Second Language (PreK-12) Graduate Certificate
- Literacy Specialist Graduate Certificate
- Online Teaching & Learning Graduate Certificate
- Secondary English Education Graduate Certificate
- Secondary Mathematics Education Graduate Certificate
- Secondary Science Education Graduate Certificate
- Secondary Social Science Education Graduate Certificate
- Social Justice Education Graduate Certificate
- Special Education Comprehensive K-12 Graduate Certificate
- Special Education Interventionist K-8 & 6-12 Graduate Certificate
- STEM Leadership Graduate Certificate
- World Languages (PreK-12) Graduate Certificate
- Writing for Children and Teens Graduate Certificate
Tickle College of Engineering

Chemical and Biomolecular Engineering
- Chemical Engineering MS
- Chemical Engineering PhD
  - Concentrations: Energy Science and Engineering
- Dual MS-MBA Chemical Engineering/Business Administration

Civil and Environmental Engineering
- Civil Engineering MS
  - Concentrations: Construction Engineering, Geotechnical/Materials Engineering, Public Works Engineering, Structural Engineering, Transportation and Infrastructure Engineering, Transportation Engineering
- Civil Engineering PhD
- Environmental Engineering MS
  - Concentrations: Water Resources Engineering
- Dual MS-MBA Civil Engineering/Business Administration
- Dual MS-MBA Environmental Engineering/Business Administration

Electrical Engineering and Computer Science
- Computer Engineering MS
- Computer Engineering PhD
  - Concentrations: Energy Science and Engineering
- Computer Science MS
  - Concentrations: Cybersecurity, Data Analytics, Data Mining and Intelligent Systems (Distance Education), Intelligent Systems and Machine Learning, Software Engineering (Distance Education)
- Computer Science PhD
  - Concentrations: Data Analytics, Energy Science and Engineering, Intelligent Systems and Machine Learning
- Electrical Engineering MS
  - Concentrations: Power Electronics
- Electrical Engineering PhD
  - Concentrations: Energy Science and Engineering, Power Electronics
• Dual MS-MBA Computer Engineering/Business Administration
• Dual MS-MBA Computer Science/Business Administration
• Dual MS-MBA Electrical Engineering/Business Administration
• Artificial Intelligence and Machine Learning Graduate Certificate
• Fire Protection Engineering Graduate Certificate
• Power & Energy Systems Graduate Certificate
• Wide Bandgap Power Electronics Graduate Certificate

**Engineering Fundamentals**

• Fundamentals of Engineering and Computing Teaching in Higher Education Graduate Certificate

**Engineering Science (Interdepartmental)**

• Engineering Science MS
  ◦ Concentrations: Aerospace Engineering, Biomedical Engineering, Civil Engineering, Environmental Engineering, Mechanical Engineering
• Engineering Science PhD
  ◦ Concentrations: Aerospace Engineering, Biomedical Engineering, Civil Engineering, Energy Science and Engineering, Environmental Engineering, Mechanical Engineering
• Dual MS-MBA Engineering Science/Business Administration

**Industrial and Systems Engineering**

• Engineering Management MS
• Industrial Engineering MS
  ◦ Concentrations: Automotive Manufacturing, Systems Engineering
• Industrial Engineering PhD
  ◦ Concentrations: Energy Science and Engineering, Engineering Management
• Dual MS-MBA Industrial Engineering/Business Administration
• Data-Driven Decision-Making Graduate Certificate
• Engineering Management Graduate Certificate

**Materials Science and Engineering**

• Materials Science and Engineering MS
  ◦ Concentrations: Automotive Materials, Nanomaterials
• Materials Science and Engineering PhD
  ◦ Concentrations: Automotive Materials, Energy Science and Engineering, Nanomaterials
• Dual MS-MBA Materials Science and Engineering/Business Administration

**Mechanical, Aerospace, and Biomedical Engineering**

• Aerospace Engineering MS

• Aerospace Engineering PhD

• Biomedical Engineering MS
  - Concentrations: Biomechanics, Materials, Nuclear Space Science and Engineering, Robotics, Theranostics

• Biomedical Engineering PhD

• Mechanical Engineering MS

• Mechanical Engineering PhD

• Dual MS-MBA Aerospace Engineering/Business Administration
• Dual MS-MBA Biomedical Engineering/Business Administration
• Dual MS-MBA Mechanical Engineering/Business Administration
• Advanced Manufacturing Graduate Certificate
• Hypersonics Graduate Certificate

**Nuclear Engineering**

• Medical Physics MS
• Nuclear Engineering MS
  - Concentrations: Nuclear Safety, Radiological Engineering

• Nuclear Engineering PhD

• Dual MS-MBA Nuclear Engineering/Business Administration
• Medical Physics Graduate Certificate
• Nuclear Security Science and Analysis Graduate Certificate

**Reliability & Maintainability Engineering**

• Reliability and Maintainability Engineering MS
  ○ Concentrations: Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Computer Engineering, Electrical Engineering, Industrial Engineering, Materials Science and Engineering, Mechanical Engineering, Nuclear Engineering
• Dual MS-MBA Reliability and Maintainability Engineering/Business Administration
• Reliability and Maintainability Engineering: Chemical Engineering Graduate Certificate
• Reliability and Maintainability Engineering: Computer Engineering Graduate Certificate
• Reliability and Maintainability Engineering: Electrical Engineering Graduate Certificate
• Reliability and Maintainability Engineering: Industrial Graduate Certificate
• Reliability and Maintainability Engineering: Mechanical Engineering Graduate Certificate
• Reliability and Maintainability Engineering: Nuclear Engineering Graduate Certificate

**College of Law**

• Law MLSD
• Law JD
  ○ Concentrations: Advocacy and Dispute Resolution, Business Transactions
• Dual JD-MA Law/Philosophy
• Dual JD-MBA Law/Business Administration
• Dual JD-MPPA Law/Public Policy and Administration
• Dual JD-MSSW Law/Social Work
• Dual MLSD-MSSW Law/Social Work
• Law and Social Welfare Graduate Certificate
• Legal Studies Graduate Certificate

**College of Music**

• Music MMusic
  ○ Concentrations: 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 Graduate Certificate
• Artist Certificate in Keyboard Performance Graduate Certificate
• Artist Certificate in Percussion Performance Graduate Certificate
• Artist Certificate in String Performance Graduate Certificate
• Artist Certificate in Voice Performance Graduate Certificate
• Artist Certificate in Woodwind Performance Graduate Certificate
• Music Theory Pedagogy Graduate Certificate

**College of Nursing**

• Nursing DNP
  ◦ Concentrations: 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
• Family Nurse Practitioner Graduate Certificate
• Health Policy Graduate Certificate
• Healthcare Informatics Graduate Certificate
• Nurse Executive Practice Graduate Certificate
• Nursing Education Graduate Certificate
• Pediatric Acute Care Nurse Practitioner Graduate Certificate
• Pediatric Nurse Practitioner Graduate Certificate
• Psychiatric Mental Health Nurse Practitioner Graduate Certificate

**College of Social Work**

• Social Work DSW
• Social Work MSSW
  ◦ Concentrations: Clinical Practice, Organizational Leadership
• Social Work PhD
• Dual MSSW-JD Social Work/Law
• Dual MSSW-MLSD Social Work/Law
• Forensic Social Work Graduate Certificate
• Gerontology Graduate Certificate
• Trauma Treatment Graduate Certificate
• Veterinary Social Work Graduate Certificate

**College of Veterinary Medicine**

• Veterinary Medicine DVM
• Dual DVM-MS Veterinary Medicine/Animal Science
• Dual DVM-MS Veterinary Medicine/Comparative and Experimental Medicine
• Dual DVM-MPH Veterinary Medicine/Public Health
• Dual DVM-PhD Veterinary Medicine/Comparative and Experimental Medicine

**Comparative and Experimental Medicine (Intercollegiate)**

• Comparative and Experimental Medicine MS
• Comparative and Experimental Medicine PhD
• Dual MS-DVM Comparative and Experimental Medicine/Veterinary Medicine
• Dual PhD-DVM Comparative and Experimental Medicine/Veterinary Medicine

**Bredesen Center for Interdisciplinary Research and Graduate Education (Intercollegiate)**

• Data Science and Engineering PhD
• Energy Science and Engineering PhD
• Life Sciences MS
  ◦ Concentrations: Genome Science and Technology, Plant Physiology and Genetics
• Life Sciences PhD
  ◦ Concentrations: Genome Science and Technology, Plant Physiology and Genetics

**Howard H. Baker Jr. School of Public Policy and Public Affairs**

• Public Policy and Administration MPPA
• Dual MPPA-JD Public Policy and Administration/Law
Minors

Herbert College of Architecture

Agricultural and Resource Economics
  • Agricultural and Resource Economics Minor

Animal Science
  • Animal Science Minor

Entomology and Plant Pathology
  • Bioinformatics: Agriculture and Natural Resources Minor
  • Entomology Minor
  • Entomology and Plant Pathology Minor
  • Plant Pathology Minor

Natural Resources, School of
  • Forestry Minor
  • Wildlife and Fisheries Minor
  • Wildlife Health Minor

Plant Sciences
  • Plant Sciences Minor

Interdisciplinary
  • Watershed Minor

College of Arts and Sciences

School of Art
  • Art History Minor

Political Science
  • Environmental Policy Minor

Interdisciplinary
  • Interdisciplinary Graduate Minor in Neuroscience

Haslam College of Business

Business Analytics & Statistics
  • Intercollegiate Graduate Statistics and Data Science Minor
College of Education, Health and Human Sciences

Kinesiology, Recreation and Sport Studies
- Exercise Physiology Minor

Nutrition
- Nutrition Minor

Public Health
- Epidemiology Minor

Tickle College of Engineering

Electrical Engineering and Computer Science
- Computer Science Minor
- Interdisciplinary Graduate Minor in Computational Science

Intercollegiate

Comparative and Experimental Medicine
- One Health Minor