



GRADUATE SCHOOL

Graduate Majors, Degrees & Certificate Programs

2024-2025 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 and Resource Economics

- Agricultural and Resource Economics MS
 - Concentrations (required): agricultural economics, natural resource economics
- Dual MS-MBA Agricultural and Resource Economics/Business Administration

Agricultural Leadership, Education and Communications

- Agricultural Leadership, Education and Communications MS
 - Concentrations (optional): agricultural communications, agricultural education, agricultural leadership

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
 - Concentration (optional): 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 (required): bioinformatics and genomics, entomology, plant pathology
- Entomology, Plant Pathology, and Nematology PhD
 - Concentrations (required): 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 (optional): food chemistry, food microbiology, food processing, sensory science

Natural Resources, School of

- Forestry MS
 - Concentrations (optional): bio-based products and wood science and technology, forest business
- Natural Resources PhD
 - Concentrations (optional): bio-based products and wood science and technology, natural resource economics, wildlife health
- Wildlife and Fisheries Science MS
 - Concentration (optional): wildlife health

Plant Sciences

- Plant Sciences MS
 - Concentrations (required): crop sciences, horticulture, plant breeding, plant molecular genetics, weed science
- Plant, Soil, and Environmental Sciences PhD
 - Concentrations (optional): crop sciences, horticulture, plant breeding, plant molecular genetics, weed science

College of Architecture and Design

Architecture, School of

- Architecture MArch
 - Concentrations (optional): 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 (required): archaeology, biological anthropology, cultural anthropology, Mediterranean archaeology
- Anthropology PhD
 - Concentrations (required): archaeology, biological anthropology, cultural anthropology
- Disasters, Displacement and Human Rights Graduate Certificate

Art, School of

- Art MFA
 - Concentrations (required): 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
 - Concentrations (required): analytical chemistry, environmental chemistry, inorganic chemistry, organic chemistry, physical chemistry, polymer chemistry
- Chemistry PhD
 - Concentrations (required): analytical chemistry, chemical physics, environmental chemistry, inorganic chemistry, organic chemistry, physical chemistry, polymer chemistry, theoretical chemistry
- Radiochemistry Graduate Certificate

Earth, Environmental, and Planetary Sciences

- Geology MS
- Geology PhD

Ecology and Evolutionary Biology

- Ecology and Evolutionary Biology MS
 - Concentrations (optional): behavior, ecology, evolutionary biology
- Ecology and Evolutionary Biology PhD
 - Concentrations (optional): behavior, ecology, energy science and engineering, evolutionary biology

English

- English MA
 - Concentrations (required): literature, criticism & textual studies; rhetoric, writing & linguistics
- English PhD
 - Concentrations (required): creative writing; literature, criticism & textual studies; rhetoric, writing & linguistics
- Creative Writing MFA
- Digital Humanities Graduate Certificate

Geography and Sustainability

- Geography MS
 - Concentrations (optional): geographic information science, sustainability
- Geography PhD

History

- History MA
- History PhD
 - Concentrations (required): American history, European history

Interdisciplinary Programs

- Linguistics Graduate Certificate
- Medieval Studies Graduate Certificate
- Women, Gender, and Sexuality Graduate Certificate

Mathematics

- Mathematics MMath
- Mathematics MS
 - Concentration (optional): industrial mathematics
- Mathematics PhD
 - Concentration (optional): 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
- Physics PhD

Political Science

- Political Science MA
- Political Science PhD
- Global Security Studies Graduate Certificate

Psychology

- Psychology MA
 - Concentrations (required): experimental psychology, general psychology
- Psychology PhD
 - Concentrations (required): clinical psychology, counseling psychology, experimental psychology

Religious Studies

- Religious Studies Graduate Certificate

Sociology

- Sociology MA
 - Concentrations (optional): applied sociology, criminology, critical race and ethnic studies, environmental sociology, political economy and globalization
- Sociology PhD
 - Concentrations (optional): criminology, critical race and ethnic studies, environmental sociology, political economy and globalization
- Global Studies Graduate Certificate
- Social Theory Graduate Certificate

Theatre

- Theatre MFA
 - Concentrations (optional): acting, costume design, lighting design, scene design, sound and media design

World Languages and Cultures

- French MA
- German MA
- Spanish MA
 - Concentrations (optional): applied linguistics and second language studies, literary and cultural studies
- World Languages and Cultures PhD
 - Concentrations (required): French, German, Spanish
- Translation Studies Graduate Certificate

Haslam College of Business

Accounting and Information Management

- Accounting MAcc
 - Concentrations (required): audit and controls, information management, taxation
- Business Cybersecurity MS

Business Analytics and Statistics

- Business Analytics MS
 - Concentrations (required): full-time, working professionals
- Business Analytics PhD
- Statistics MS
 - Concentrations (required): intercollegiate graduate statistics and data science

Economics

- Economics MA
 - Concentrations (required): applied economic analysis, financial economics
- Economics PhD

Management & Entrepreneurship

- Management & Human Resources MS

Interdepartmental

- Business Administration MBA Full-Time
 - Concentrations (required): business analytics, consulting, entrepreneurship and innovation, finance, supply chain management
- Business Administration MBA Online MBA
- Business Administration MBA for Working Professionals
 - Concentrations (required): aerospace and defense, physician executive, professional, executive
- Business Administration PhD
 - Concentrations (required): accounting; finance; marketing; statistics; strategy, entrepreneurship, and organizations; supply chain management
- Dual MBA-JD Business Administration/Law
- Dual MBA-MS Business Administration/Aerospace Engineering
- Dual MBA-MS Business Administration/Agricultural and Resource Economics
- Dual MBA-MS Business Administration/Biomedical Engineering
- Dual MBA-MS Business Administration/Business Analytics
- Dual MBA-MS Business Administration/Chemical Engineering
- Dual MBA-MS Business Administration/Civil Engineering
- Dual MBA-MS Business Administration/Computer Engineering
- Dual MBA-MS Business Administration/Computer Science
- Dual MBA-MS Business Administration/Electrical Engineering
- Dual MBA-MS Business Administration/Engineering Science

- Dual MBA-MS Business Administration/Environmental Engineering
- Dual MBA-MS Business Administration/Industrial Engineering
- Dual MBA-MS Business Administration/Materials Science Engineering
- Dual MBA-MS Business Administration/Mechanical Engineering
- Dual MBA-MS Business Administration/Nuclear Engineering
- Dual MBA-MS Business Administration/Reliability and Maintainability Engineering
- Dual MBA-PharmD Business Administration (Available with UT Health Science Center)

Marketing

- Marketing MS

Supply Chain Management

- Supply Chain Management MS
 - Concentrations (required): integrated supply chain, tri-continent supply chain
- Supply Chain Management Graduate Certificate

College of Communication and Information

Communication and Information

- Communication and Information MS
 - Concentrations (required): advertising, advertising and public relations, communication studies, journalism and media, journalism and media 4+1, public relations, strategic and digital communications
- Communication and Information PhD
 - Concentrations (required): advertising, information science, journalism and media, public relations

Information Sciences, School of

- Information Sciences MS
- Research Data Management Graduate Certificate
- School Librarianship Graduate Certificate
- Youth Informatics Graduate Certificate

College of Emerging and Collaborative Studies

- Applied Cybersecurity Graduate Certificate

College of Education, Health, and Human Sciences

Counseling, Human Development, and Family Sciences

- Counseling MS
 - Concentrations (required): clinical mental health counseling, school counseling
- Counselor Education PhD
- Human Development and Family Science MS
 - Concentration (required): human development and family science
- Human Development and Family Science PhD
- Grief, Loss, and Trauma Graduate Certificate

Educational Leadership and Policy Studies

- College Student Personnel MS
- Dual College Student Personnel/Social Work MS-MSSW
- Education EdS:
 - Concentration (required): educational administration
- Education MS
 - Concentrations (required): adult and continuing education, evaluation methodology
- Education PhD
 - Concentrations (required): adult and continuing education, leadership studies in education
- Educational Administration MS
 - Concentrations (required): higher education administration, instructional leadership
- Educational Leadership EdD
- Evaluation, Statistics, and Methodology PhD
- Higher Education Administration PhD
- Adult Learning in Professional Settings Graduate Certificate
- Evaluation, Statistics, and Methodology Graduate Certificate
- Instructional Leadership Graduate Certificate
- Qualitative Research Methods in Education Graduate Certificate

Kinesiology, Recreation and Sport Studies

- Kinesiology MS
 - Concentrations (required): biomechanics, exercise physiology, sport psychology and motor behavior
- Kinesiology and Sport Studies PhD
 - Concentrations (required): kinesiology, sport studies
- Recreation and Sport Management MS
 - Concentrations (required): sport management, therapeutic recreation

Nutrition

- Nutrition MS
 - Concentrations (required): biomedical nutrition science, clinical nutrition and dietetics, community nutrition
- Nutritional Sciences PhD
 - Concentrations (required): biomedical nutrition science, implementation science in community nutrition
- Community Nutrition Graduate Certificate

Public Health

- Public Health MPH
 - Concentrations (required): community health education, epidemiology, health policy and management, public health nutrition, veterinary public health
- Public Health Sciences PHD
- Dual MPH-DVM Public Health/Veterinary Medicine
- Food Safety Graduate Certificate

Retail, Hospitality and Tourism Management

- Retail, Hospitality, and Tourism Management PhD

Theory and Practice in Teacher Education

- Education EdS
 - Concentration (required): school psychology
- Education MS
 - Concentration (required): instructional technology
- Education PhD
 - Concentrations (required): learning, design, and technology; literacy studies; special education, deaf education, and interpreter education; teacher education

- Educational Psychology MS
 - Concentrations (required): applied educational psychology
- School Psychology PhD
- Teacher Education EdS
 - Concentrations (required): 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 language/ESL education
- Teacher Education MS
 - Concentrations (required): 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, interdisciplinary early childhood education integrated preK-3 professional internship, mathematics education professional internship, practitioner, science education professional internship, social sciences education professional internship, world language education professional internship
- American Sign Language Education Graduate Certificate
- Art Education (K-12) Graduate Certificate
- Deaf Education Graduate Certificate
- Educational Data Science Graduate Certificate
- 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 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
 - Concentration (optional): energy science and engineering
- Dual MS-MBA Chemical Engineering/Business Administration

Civil and Environmental Engineering

- Civil Engineering MS
 - Concentrations (required): construction engineering, geotechnical/materials engineering, public works engineering, structural engineering, transportation and infrastructure engineering, transportation engineering
- Civil Engineering PhD
 - Concentrations (required): 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
 - Concentration (optional): 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
 - Concentration (optional): energy science and engineering
- Computer Science MS
 - Concentrations (optional): cybersecurity, data analytics, data mining and intelligent systems, intelligent systems and machine learning, software engineering
- Computer Science PhD
 - Concentrations (optional): data analytics, energy science and engineering, intelligent systems and machine learning
- Electrical Engineering MS
 - Concentration (optional): power electronics
- Electrical Engineering PhD
 - Concentrations (optional): 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

Interdepartmental

- Engineering Science MS
 - Concentrations (required): aerospace engineering, biomedical engineering, civil engineering, environmental engineering, mechanical engineering
- Engineering Science PhD
 - Concentrations (required): aerospace engineering, biomedical engineering, civil engineering, energy science and engineering, environmental engineering, mechanical engineering
- Dual MS-MBA Engineering Science/Business Administration
- Reliability and Maintainability Engineering MS
 - Concentrations (optional): 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
- Engineering Intellectual Property Law Graduate Certificate
- Reliability and Maintainability Engineering: Aerospace Engineering Graduate Certificate
- Reliability and Maintainability Engineering: Biomedical Engineering Graduate Certificate
- 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: Materials Science and Engineering Graduate Certificate
- Reliability and Maintainability Engineering: Mechanical Engineering Graduate Certificate

- Reliability and Maintainability Engineering: Nuclear Engineering Graduate Certificate

Industrial and Systems Engineering

- Engineering Management MS
- Industrial Engineering MS
 - Concentrations (optional): automotive manufacturing, systems engineering
- Industrial Engineering DEng
 - Concentrations (optional): engineering management
- Industrial Engineering PhD
 - Concentrations (optional): 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 (optional): automotive materials, nanomaterials
- Materials Science and Engineering PhD
 - Concentrations (optional): automotive materials, energy science and engineering, nanomaterials
- Dual MS-MBA Materials Science and Engineering/Business Administration

Mechanical, Aerospace, and Biomedical Engineering

- Aerospace Engineering MS
 - Concentrations (optional): applied mechanics, nuclear space science and engineering, systems and controls, thermal-fluid mechanics
- Aerospace Engineering PhD
 - Concentrations (optional): applied mechanics, energy science and engineering, nuclear space science and engineering, systems and controls, thermal-fluid mechanics
- Biomedical Engineering MS
 - Concentrations (optional): biomechanics, materials, nuclear space science and engineering, robotics, theranostics
- Biomedical Engineering PhD
 - Concentrations (optional): biomechanics, energy science and engineering, materials, nuclear space science and engineering, robotics, theranostics

- Mechanical Engineering MS
 - Concentrations (optional): applied mechanics, automotive manufacturing simulation and design, nuclear space science and engineering, systems and controls, thermal-fluid mechanics
- Mechanical Engineering PhD
 - Concentrations (optional): applied mechanics, automotive manufacturing simulation and design, energy science and engineering, nuclear space science and engineering, systems and controls, thermal fluid mechanics
- 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 (optional): nuclear safety, radiological engineering
- Nuclear Engineering PhD
 - Concentrations (optional): energy science and engineering, nuclear safety, nuclear space science and engineering, radiological engineering
- Dual MS-MBA Nuclear Engineering/Business Administration
- Medical Physics Graduate Certificate
- Nuclear Security Science and Analysis 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-MPA Law/Public Administration
- Dual JD-MPP Law/Public Policy
- 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 (required): choral conducting, collaborative piano, composition, instrumental conducting, jazz, music education, music theory, musicology, performance
- 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
- Certificate in Vocal Pedagogy Graduate Certificate

College of Nursing

- Nursing DNP
 - Concentrations (required): family nurse practitioner, nurse anesthesia, 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
- 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-MS Social Work/College Personnel
- 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 MPA
 - Concentrations (optional): economic and community development, emergency management, non-profit management, policy analytics
- Public Policy MPP
 - Concentrations (optional): agricultural and environmental policy, economic and community development, energy policy, health policy, international agricultural trade and development, national security, nuclear security, public management
- Dual MPA-JD Public Administration/Law
- Dual MPP-JD Public Policy/Law
- Agricultural and Environmental Policy Graduate Certificate
- Economic and Community Development Graduate Certificate
- Emergency Management Graduate Certificate
- Energy Policy Graduate Certificate
- National Security Graduate Certificate
- Non-Profit Management Graduate Certificate
- Nuclear Security Graduate Certificate
- Policy Analytics Graduate Certificate
- Public Management Graduate Certificate

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

- Bio-Medical Nutrition Science Minor
- Community 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