

Graduate Majors, Degrees and Certificates Programs

The University of Tennessee, Knoxville

2016-2017 Academic Year/Listed by College and Department

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 http://gradschool.utk.edu/catalog_redirection.html

DEPARTMENT	MAJOR	DEGREE	CONCENTRATION(s) available GRADUATE CERTIFICATES AVAILABLE
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College of Agricultural Sciences and Natural Resources

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
		Dual MS-MBA	Available with Haslam College of Business
Animal Science	Animal Science	MS	
		PhD	
Biosystems Engineering and Soil Science	Biosystems Engineering	MS	
		PhD	Energy Science and Engineering
	Biosystems Engineering Technology	MS	
	Environmental and Soil Science	MS	
Entomology and Plant Pathology	Entomology and Plant Pathology	MS	Bioinformatics and Genomics
			Entomology
			Plant Pathology
	Entomology, Plant Pathology and Nematology	PhD	Biodiversity and Ecosystem Resilience Bioinformatics, Genomics, & Molecular Interactions Organismal Biology and Ecology Sustainable Disease & Integrated Pest Management
Food Science and Technology	Food Science and Technology	MS	
		PhD	Food Chemistry Food Microbiology Food Processing
Forestry, Wildlife and Fisheries	Forestry	MS	Bio-based Products & Wood Science & Technology
	Natural Resources	PhD	Bio-based Products & Wood Science & Technology Natural Resource Economics Wildlife Health
			Wildlife and Fisheries Science
Interdepartmental	Plant, Soil and Environmental Sciences	PhD	Crop Sciences
			Environmental and Soil Sciences
			Horticulture
			Plant Breeding
			Plant Molecular Genetics
	Weed Science		
Plant Sciences	Plant Sciences	MS	Crop Sciences
			Horticulture
			Plant Breeding
			Plant Molecular Genetics
			Weed Science

College of Architecture and Design

School of Landscape Architecture	Landscape Architecture	MLA	Track 1 (first professional degree track) Track 2 (post-professional degree track)
		Dual MLA-MArch	Available with School of Architecture
	Landscape Architecture	MALA MSLA	

School of Architecture	Architecture	MArch	Conservation and Stewardship
			High Performance Buildings
			Urban Design
			Sustainable Design
		Dual MArch-MLA	Available with School of Landscape Architecture
			Conservation and Stewardship
			High Performance Buildings
			Urban Design
	Graduate Certificates	Sustainable Design	

College of Arts and Sciences

Anthropology	Anthropology	MA	Archaeology
			Biological Anthropology
			Cultural Anthropology
			Mediterranean Archaeology
			Zooarchaeology
		PhD	Archaeology
			Biological Anthropology
			Cultural Anthropology
		Graduate Certificate	Zooarchaeology
			Disasters, Displacement, and Human Rights
School of Art	Art	MFA	Ceramics
			Painting/Drawing
			Printmaking
			Sculpture
			Transmedia Design
Biochemistry and Cellular and Molecular Biology	Biochemistry and Cellular and Molecular Biology	MS	
		PhD	
Chemistry	Chemistry	MS	Analytical Chemistry
			Environmental Chemistry
			Inorganic Chemistry
			Organic Chemistry
			Physical Chemistry
			Polymer Chemistry
		PhD	Analytical Chemistry
			Chemical Physics (in cooperation with Physics Department)
			Environmental Chemistry
			Inorganic Chemistry
			Organic Chemistry
	Physical Chemistry	Polymer Chemistry	
		Theoretical Chemistry	
		Graduate Certificate	Radiochemistry
Earth and Planetary Sciences	Geology	MS	
		PhD	
Ecology and Evolutionary Biology	Ecology and Evolutionary Biology	MS	Behavior
			Ecology
			Evolutionary Biology
		PhD	Behavior
			Ecology
			Energy Science and Engineering
			Evolutionary Biology
English	English	MA	Literature, Criticism, and Textual Studies
			Rhetoric, Writing, and Linguistics
			Writing
	Creative Writing	MFA	

English	English	PhD	Creative Writing
			Literature, Criticism, and Textual Studies
			Rhetoric, Writing, and Linguistics
Geography	Geography	MS	
		PhD	
History	History	MA	
		PhD	American History European History
Interdepartmental/Intercollegiate	Life Sciences	MS	Genome Science and Technology Plant Physiology and Genetics
			PhD
		Graduate Certificates	Africana Studies Linguistics Medieval Studies Social Theory Women's Studies
Mathematics	Mathematics	MMath	
		MS	Applied Mathematics
		PhD	Mathematical Ecology/Evolution
Microbiology	Microbiology	MS	
		PhD	
Modern Foreign Languages and Literatures	French	MA	
	German	MA	
	Spanish	MA	
	Modern Foreign Languages	PhD	First Concentration French German Spanish
			Second Concentration Applied Linguistics French German Italian Latin American Studies Portuguese Russian Spanish
			Choral Conducting
			Collaborative Piano
			Composition
			Instrumental Conducting
			Jazz
			Music Education
			Music Theory
			Musicology
Pedagogy (Piano or Vocal)			
Performance (Organ, Percussion, Piano, Strings, Voice or Winds)			
Graduate Certificates	Artist Certificate in Music Music Theory Pedagogy		
Philosophy	Philosophy	MA	
		Dual MA-JD	Available with College of Law
		PhD	
Physics and Astronomy	Physics	MS	Astrophysics Atomic, Molecular, Optical, and Low Temperature Physics Biophysics

Physics and Astronomy	Physics	MS	Chemical Physics
			Condensed Matter and Surface Physics
			Elementary Particle Physics
			Geophysics
			Mathematical and Computational Physics
			Nuclear and Relativistic Heavy Ion Physics
		Theoretical 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	Political Science	MA	
		PhD	
		Graduate Certificate	Global Security Studies
	Public Policy and Administration	MPPA	
		Dual MPPA-JD	Available with College of Law
Psychology	Psychology	MA	Experimental Psychology
			General Psychology
		PhD	Clinical Psychology
			Counseling Psychology
			Experimental Psychology
Sociology	Sociology	MA	Criminology
			Environmental Sociology
			Political Economy
		PhD	Criminology
			Environmental Sociology
			Political Economy
Theatre	Theatre	MFA	Acting
			Costume Design
			Lighting Design
			Scene Design

Haslam College of Business

Accounting and Information Management	Accounting	MAcc	Audit and Controls
			Information Management
			Taxation
Business Analytics and Statistics	Business Analytics	MS	
		Dual MS-MBA	Available with College of Business
	Management Science	PhD	Analytics
	Statistics	MS	Industrial Statistics
		Graduate Certificate	Applied Statistical Strategies
Economics	Economics	MA	
		PhD	
Management	Human Resource Management	MS	
Interdepartmental	Business Administration	MBA	Business Analytics
			Entrepreneurship and Innovation
			Finance
			Human Resource Management
			Marketing
			Operations Management
Supply Chain Management			

Interdepartmental	Business Administration	MBA	MBA Programs for Working Professionals
			Aerospace and Defense MBA
			Physician Executive MBA
			Professional MBA
	Executive MBA		
	Business Administration	Dual MBA-JD	Available with College of Law
	Business Administration	Dual MS-MBA	Available with College of Agricultural Sciences and Natural Resources; Haslam College of Business; and College of Engineering
	Business Administration	Dual MBA-PharmD	Available with UT Health Science Center
	Business Administration	PhD	Accounting
			Finance
Marketing			
Organizations and Strategy			
Statistics			
			Supply Chain Management

College of Communication and Information

Interdepartmental	Communication and Information	MS	Advertising
			Communication Studies
			Journalism and Electronic Media
			Public Relations
		PhD	Advertising
			Communication Studies
			Information Science
			Journalism and Electronic Media
			Public Relations
School of Information Sciences	Information Sciences	MS	
		Graduate Certificate	Youth Informatics

College of Education, Health and Human Sciences

Child and Family Studies	Child and Family Studies	MS	General-Emphasis
			Teacher Licensure (PreK-3)
		PhD	
Educational Leadership and Policy Studies	College Student Personnel	MS	
	Educational Administration	MS	Leadership Academy
	Education	EdS	Educational Administration
		PhD	Leadership Studies in Education
	Higher Education Administration	PhD	
		Graduate Certificate	Educational Administration (PreK-12)
Educational Psychology and Counseling	Counseling	MS	Clinical Mental Health Counseling
			Rehabilitation Counseling
			School Counseling
	Counselor Education	PhD	
	Education	MS	Cultural Studies of Educational Foundations
			Instructional Technology
	Education	PhD	Learning Environments and Educational Studies
	Educational Psychology	MS	Adult Education
			Applied Educational Psychology
	Educational Psychology and Research	PhD	Adult Learning
			Evaluation, Statistics, and Measurement
School Psychology	PhD		
		Graduate Certificates	Cultural Studies in Education
			Deafness Rehabilitation
			Evaluation, Statistics, and Measurement
			Grief, Loss and Trauma
			Online Teaching and Learning
Kinesiology, Recreation, and Sport Studies	Kinesiology	MS	Biomechanics
			Exercise Physiology
			Sport Psychology and Motor Behavior

Kinesiology, Recreation, and Sport Studies	Recreation and Sport Management	MS	Sport Management Therapeutic Recreation		
	Kinesiology and Sport Studies	PhD	Kinesiology (specializations in biomechanics; exercise physiology; physical activity epidemiology; sport psychology and motor behavior)		
			Sport Studies (specializations in socio-cultural studies; and sport management)		
Nutrition	Nutrition	MS	Cellular and Molecular Nutrition Public Health Nutrition		
		Dual MS-MPH	Available with Department of Public Health		
	Nutritional Sciences	PhD	Cellular and Molecular Nutrition Community Nutrition		
Public Health	Public Health	MPH	Community Health Education Health Policy and Management Veterinary Public Health		
			Dual MPH-DVM	Available with College of Veterinary Medicine	
			Dual MPH-JD	Available with College of Law	
		Dual MPH-MS	Available with Department of Nutrition		
		DrPH	Community Health Education Epidemiology		
		Graduate Certificate	Food Safety		
		Retail, Hospitality, and Tourism Management	Retail, Hospitality, and Tourism Management	PhD	
		Theory and Practice in Teacher Education	Teacher Education	MS	Track I (Non-Licensure - teachers with Licensure) Art Education Education of the Deaf and Hard of Hearing Elementary Education English Education Literacy Education Mathematics Education Science Education Science Education (Informal Education) Science, Technology, Engineering & Mathematics Social Science Education Special Education Teaching and Learning World Language/ESL Education
Track II (Licensure - teachers seeking Licensure) Art Education Education of the Deaf and Hard of Hearing Elementary Teaching English as a Second Language Education Mathematics Grades 6-8 Teaching Science Grades 6-8 Teaching Secondary Teaching Special Education World Language Education					
Teacher Education	EdS				Educational Technology Elementary Education English Education Literacy Education Mathematics Education Science Education Social Science Education Special Education Teaching and Learning World Language/ESL Education

Theory & Practice in Teacher Ed	Education	PhD	Literacy Studies
			Special Education, Deaf Education, and Interpreter Education
			Teacher Education
		Graduate Certificate	Urban Education

College of Engineering

Chemical and Biomolecular Engineering	Chemical Engineering	MS	
		Dual MS-MBA	Available with Haslam College of Business
		PhD	Energy Science and Engineering
Civil and Environmental Engineering	Civil Engineering	MS	Construction Engineering
			Geotechnical/Materials Engineering
			Public Works Engineering
			Structural Engineering
			Transportation Engineering
		Dual MS-MBA	Available with Haslam College of Business
		PhD	Climate Impacts Engineering
			Construction Engineering
			Energy Science and Engineering
			Environmental Engineering
			Geotechnical/Materials Engineering
			Public Works Engineering
			Structural Engineering
			Transportation Engineering
Graduate Certificate	Contractual & Legal Affairs in Engineering & Construction		
Environmental Engineering	MS	Water Resources Engineering	
	Dual MS-MBA	Available with Haslam College of Business	
Electrical Engineering and Computer Science	Computer Engineering	MS	Computer Architecture
			Computer Networks
			Computer Vision
			Cybersecurity
			Data Analytics
			Embedded Systems
			Image Processing
			Information Systems
			VLSI System Design
		Dual MS-MBA	Available with Haslam College of Business
		PhD	Computer Architecture
			Computer Networks
			Computer Vision
			Cybersecurity
	Data Analytics		
	Computer Science	MS	Computational Imaging
			Computer-Human Interaction
			Cybersecurity
			Cyberinfrastructure
			Data Mining
			Data Analytics
			Data Visualization
			Discrete Optimization
High Performance Computing			
Intelligent Systems and Machine Learning			
Life Science Applications			

Electrical Engineering and Computer Science	Computer Science	MS	Software Systems
		Dual MS-MBA	Available with Haslam College of Business
		PhD	Computational Imaging
			Computer-Human Interaction
			Cybersecurity
			Cyberinfrastructure
			Data Mining
			Data Analytics
			Data Visualization
			Discrete Optimization
			Energy Science and Engineering
			High Performance Computing
		Intelligent Systems and Machine Learning	
	Life Science Applications		
	Software Systems		
	Electrical Engineering	MS	Automotive Manufacturing and Technology
			Communications
			Control Systems
			Electromagnetics and RF Circuits
Fire Protection Engineering			
Power Electronics			
Power Systems			
Solid-State Electronics			
Dual MS-MBA		Available with Haslam College of Business	
PhD		Automotive Manufacturing and Technology	
		Communications	
		Control Systems	
		Electromagnetics and RF Circuits	
		Energy Science and Engineering	
		Fire Protection Engineering	
		Power Electronics	
	Power Systems		
Graduate Certificates	Fire Protection Engineering		
	Power and Energy Systems		
Industrial and Systems Engineering	Industrial Engineering	MS	Engineering Management
		Dual MS-MBA	Available with Haslam College of Business
		PhD	Energy Science and Engineering
			Engineering Management
Graduate Certificate	Engineering Management		
Interdepartmental	Engineering Science	MS	Aerospace Engineering
			Biomedical Engineering
			Civil Engineering
			Environmental Engineering
			Flight Test Engineering (UTSI only)
			Mechanical Engineering
		Dual MS-MBA	Available with Haslam College of Business
		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

Interdepartmental	Reliability and Maintainability Engineering	MS	Electrical Engineering
			Industrial Engineering
			Materials Science and Engineering
			Mechanical Engineering
			Nuclear Engineering
Interdepartmental	Reliability and Maintainability Engineering	Dual MS-MBA	Available with Haslam College of Business
		Graduate Certificates	Reliability and Maintainability Engineering
			Chemical Engineering
			Computer Engineering
			Electrical Engineering
			Industrial Engineering
			Mechanical Engineering
Nuclear Engineering			
Materials Science and Engineering	Materials Science and Engineering	MS	Automotive Materials
			Biomaterials
			Materials
			Metallurgy
			Nanomaterials
			Polymers
		Dual MS-MBA	Available with Haslam College of Business
		PhD	Automotive Materials
			Biomaterials
			Energy Science and Engineering
Materials			
Mechanical, Aerospace, and Biomedical Engineering	Aerospace Engineering	MS	Applied Mechanics
			Systems and Controls
			Thermal-Fluid Mechanics
		Dual MS-MBA	Available with Haslam College of Business
		PhD	Applied Mechanics
			Energy Science and Engineering
	Systems and Controls		
	Biomedical Engineering	MS	Biomechanics
			Biomedical Systems
			Energy Science and Engineering
Dual MS-MBA		Available with Haslam College of Business	
PhD		Biomechanics	
		Biomedical Systems	
	Energy Science and Engineering		
Mechanical Engineering	Mechanical Engineering	MS	Applied Mechanics
			Automotive Manufacturing Simulation and Design
			Systems and Controls
			Thermal-Fluid Mechanics
		Dual MS-MBA	Available with Haslam College of Business
		PhD	Applied Mechanics
			Automotive Manufacturing Simulation and Design
			Energy Science and Engineering
Systems and Controls			
Nuclear Engineering	Nuclear Engineering	MS	Radiological Engineering
		Dual MS-MBA	Available with Haslam College of Business
		PhD	Energy Science and Engineering
			Radiological Engineering

Nuclear Engineering	Nuclear Engineering	Graduate Certificates	Nuclear Criticality Safety
			Nuclear Security Science and Analysis

College of Law

	Law	JD	Advocacy and Dispute Resolution Business Transactions
		Dual JD-MA	Available with Department of Philosophy in the College of Arts and Sciences
		Dual JD-MBA	Available with Haslam College of Business
		Dual JD-MPH	Available with Department of Public Health in the College of Education, Health, and Human Sciences
		Dual JD-MPPA	Available with Department of Political Science in the College of Arts and Sciences
	Law	LLM	

College of Nursing

	Nursing	MSN	Adult Gerontology Clinical Nurse Specialist
			Family Nurse Practitioner
			Mental Health Nursing
			Nurse Anesthesia
			Nursing Administration
		Pediatric Nursing	
		DNP	Family Nurse Practitioner
			Mental Health Practitioner
			Nurse Anesthesia
			Nurse Executive Practice
	Pediatric Nursing		
	PhD		
	Nursing	Graduate Certificates	Adult Health Clinical Nurse Specialist
			Family Nurse Practitioner
			Health Policy
Mental Health Nursing			
Nurse Anesthesia			
Nursing Administration			
Nursing Education			
Pediatric Nursing			

College of Social Work

	Social Work	MSSW	Evidence-based Interpersonal Practice
			Organizational Leadership
		DSW	
		PhD	
		Graduate Certificates	Gerontology
			Trauma Treatment
		Veterinary Social Work	

College of Veterinary Medicine

	Veterinary Medicine	DVM	
		Dual DVM-PhD	Available with Intercollegiate Comparative and Experimental Medicine Program
		Dual DVM-MPH	Available with Department of Public Health in the College of Education, Health, and Human Sciences

Intercollegiate

Comparative and Experimental Medicine	Comparative and Experimental Medicine	MS	Forensic Odontology
		PhD	
		Dual PhD-DVM	Available with College of Veterinary Medicine
Bredesen Center for Interdisciplinary Research and Graduate Education	Energy Science and Engineering	PhD	