

## Graduate Majors, Degrees and Certificates Programs

### The University of Tennessee, Knoxville

#### 2017-2018 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](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	
Animal Science	Animal Science	MS		
		PhD		
		Dual MS-DVM	Available with College of Veterinary Medicine	
Biosystems Engineering and Soil Science	Biosystems Engineering	MS		
		PhD	Energy Science and Engineering	
	Biosystems Engineering Technology	MS		
Environmental and Soil Science	Environmental and Soil Science	MS		
		MS		
		MS		
Entomology and Plant Pathology	Entomology and Plant Pathology	MS	Bioinformatics and Genomics	
			Entomology	
			Plant Pathology	
Entomology, Plant Pathology and Nematology	Entomology, Plant Pathology and Nematology	PhD	Bioinformatics, Genomics, & Molecular Interactions	
			Organismal biology, ecology, and systematics	
			Sustainable Disease & Integrated Pest Management	
Food Science	Food Science	MS		
		PhD	Food Chemistry	
		PhD	Food Microbiology	
Forestry, Wildlife and Fisheries	Forestry	MS	Bio-based Products & Wood Science & Technology	
			MS	Bio-based Products & Wood Science & Technology
	Natural Resources	PhD	Natural Resource Economics	
Wildlife and Fisheries Science	Wildlife and Fisheries Science	MS	Wildlife Health	
			MS	Wildlife Health
			MS	Wildlife Health
Interdepartmental	Plant, Soil and Environmental Sciences	PhD	Crop Sciences	
			Environmental and Soil Sciences	
			Horticulture	
			Plant Breeding	
			Plant Molecular Genetics	
Plant Sciences	Plant Sciences	MS	Weed Science	
			Crop Sciences	
			Horticulture	
			Plant Breeding	
			Plant Molecular Genetics	
Weed Science	Weed Science	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)
		MLA	Track 2 (post-professional degree track)
	Landscape Architecture	Dual MLA-MArch	Available with School of Architecture
	Landscape Architecture	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
		Graduate Certificates	Conservation and Stewardship
			High Performance Buildings
			Urban Design
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
			Time-Based Art
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
	Graduate Certificate	Polymer Chemistry	
		Theoretical Chemistry	
		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	Genome Science and Technology Plant Physiology and Genetics
Interdisciplinary Programs		Graduate Certificates	Africana Studies
			Linguistics
			Medieval Studies
			Social Theory
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			
School of Music	Music	MMusic	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
Dual MA-JD	Available with College of Law		
PhD			
Physics and Astronomy	Physics	MS	Astrophysics
			Atomic, Molecular, Optical, and Low Temperature Physics
			Biophysics
			Chemical Physics

Physics and Astronomy	Physics	MS	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	
Political Science	Political Science	MA		
			PhD	
		Public Policy and Administration	Graduate Certificate	Global Security Studies
			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
				Critical Race and Ethnic Studies
Environmental Sociology				
Political Economy				
		PhD	Criminology	
			Critical Race and Ethnic Studies	
			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 Haslam College of Business
	Management Science	PhD	Analytics
	Statistics	MS	Industrial Statistics
		Graduate Certificate	Applied Statistical Strategies
Economics	Economics	MA	
		PhD	
Management	Management & Human Resources	MS	
Interdepartmental	Business Administration	MBA	Business Analytics
			Entrepreneurship and Innovation
			Finance
			Marketing
			Operations Management
			Supply Chain Management

Interdepartmental	Business Administration	MBA	<b>MBA Programs for Working Professionals</b> 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 Tickle College of Engineering
	Business Administration	Dual MBA-PharmD	Available with UT Health Science Center
	Business Administration	PhD	Accounting
			Finance
	Marketing		
	Strategy, Entrepreneurship and Organizations		
	Statistics		
Marketing and Supply Chain Management	Supply Chain Management	MS	Supply Chain Management

### College of Communication and Information

Interdepartmental	Communication and Information	MS	Advertising
			Communication Studies
			Journalism and Electronic Media
		PhD	Public Relations
			Advertising
			Communication Studies
School of Information Sciences	Information Sciences	MS	Information Science
			Journalism and Electronic Media
		<b>Graduate Certificate</b>	Public Relations
		<b>Graduate Certificate</b>	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	
		<b>Graduate Certificate</b>	International Children, Youth, and Families
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	
		<b>Graduate Certificate</b>	Educational Administration (PreK-12)
Educational Psychology and Counseling	Counseling	MS	Clinical Mental Health Counseling
			Rehabilitation Counseling
			School Counseling
	Counselor Education	PhD	
	Education	MS	Instructional Technology
	Education	PhD	Learning Environments and Educational Studies
	Educational Psychology	MS	Adult Education
			Applied Educational Psychology
	Educational Psychology and Research	PhD	Adult Learning
School Psychology	PhD		
		<b>Graduate Certificates</b>	Deafness Rehabilitation
			Evaluation, Statistics, and Measurement
			Grief, Loss and Trauma
			Online Teaching and Learning
			Qualitative Research Methods in Education

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
	Nutritional Sciences	PhD	Available with Department of Public Health
			Cellular and Molecular 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	
		Graduate Certificate	Food Safety
Retail, Hospitality, and Tourism Management	Retail, Hospitality, and Tourism Management	PhD	
Theory and Practice in Teacher Education	Teacher Education	MS	<b>Track I (Non-Licensure - teachers with Licensure)</b>
			Art Education
			Cultural Studies of Educational Foundations
			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
			<b>Track II (Licensure - teachers seeking Licensure)</b>
			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	

Theory & Practice in Teacher Ed	Teacher Education	EdS	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	Cultural Studies in Education
			Urban Education

### Tickle 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		
	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
			Signal Processing
			VLSI System Design
		Dual MS-MBA	Available with Haslam College of Business
		PhD	Computer Architecture
			Computer Networks
	Computer Vision		
	Cybersecurity		
	Data Analytics		
	Embedded Systems		
	Energy Science and Engineering		
	Computer Science	MS	Computational Imaging
			Computer-Human Interaction
Cybersecurity			
Cyberinfrastructure			
Data Mining			

Electrical Engineering and Computer Science	Computer Science	MS	Data Analytics
			Data Visualization
			Discrete Optimization
			High Performance Computing
			Intelligent Systems and Machine Learning
			Life Science Applications
			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	
		Signal Processing	
		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		
	Wide Bandgap (WBG) Power Electronics		
Industrial and Systems Engineering	Industrial Engineering	MS	Automotive Manufacturing
			Engineering Management
			Systems Engineering
	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



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

Mechanical, Aerospace and Biomedical Engineering	Mechanical Engineering	Dual MS-MBA	Available with Haslam College of Business
		PhD	Applied Mechanics
			Automotive Manufacturing Simulation and Design
			Energy Science and Engineering
			Systems and Controls
		Thermal-Fluid Mechanics	
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
			Psychiatric Mental Health Nurse Practitioner
			Nurse Anesthesia
			Nursing Administration
		Pediatric Nurse Practitioner	
		DNP	Family Nurse Practitioner
			Psychiatric Mental Health Nurse Practitioner
			Nurse Anesthesia
	Nurse Executive Practice		
		PhD	
	Nursing	Graduate Certificates	Adult Gerontology Clinical Nurse Specialist
			Family Nurse Practitioner
			Health Policy
			Psychiatric Mental Health Nurse Practitioner
Nurse Anesthesia			
Nursing Administration			
Nursing Education			
		Pediatric Nurse Practitioner	

### 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-MS	Available with Department of Animal Science in the College of Agricultural Sciences & Natural Resources
		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	Data Science and Engineering	PhD	
	Energy Science and Engineering		