

**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](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 and Fisheries Science	MS	Wildlife Health
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)
	Landscape Architecture	Dual MLA-MArch	Available with School of Architecture
		MALA	
		MSLA	

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

## College of Arts and Sciences

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

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
			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
School of Music	Music	MMusic	Italian
			Latin American Studies
			Portuguese
			Russian
			Spanish
			Choral Conducting
			Collaborative Piano
			Composition
			Instrumental Conducting
			Jazz
		Graduate Certificates	Music Education
			Music Theory
			Musicology
			Pedagogy (Piano or Vocal)
			Performance (Organ, Percussion, Piano, Strings, Voice or Winds)
			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	
		PhD	Elementary Particle Physics	
			Geophysics	
			Mathematical and Computational Physics	
			Nuclear and Relativistic Heavy Ion Physics	
			Theoretical Physics	
			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		
		<b>Graduate Certificate</b>	Global Security Studies	
		MPPA		
Psychology	Psychology	Dual MPPA-JD	Available with College of Law	
		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
		<b>Graduate Certificate</b>	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
			Graduate Certificate
	School of Information Sciences	MS	Information Sciences
			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
		MS	College Student Personnel
			Educational Administration
			Education
			Higher Education Administration
			Graduate Certificate
			Educational Administration (PreK-12)
			Counseling
Educational Leadership and Policy Studies		MS	Clinical Mental Health Counseling
			Rehabilitation Counseling
			School Counseling
		PhD	Counselor Education
		MS	Education
			Adult Education
		PhD	Applied Educational Psychology
			Educational Psychology and Research
			Adult Learning
			Evaluation, Statistics, and Measurement
Educational Psychology and Counseling		PhD	School Psychology
		Graduate Certificates	Cultural Studies in Education
			Deafness Rehabilitation
			Evaluation, Statistics, and Measurement
			Grief, Loss and Trauma
			Online Teaching and Learning
			Qualitative Research Methods in Education
		MS	Kinesiology, Recreation, and Sport Studies
			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
Public Health	Public Health	MPH	Cellular and Molecular Nutrition Community Nutrition
			Community Health Education Health Policy and Management Veterinary Public Health
Retail, Hospitality, and Tourism Management	Retail, Hospitality, and Tourism Management	PhD	Dual MPH-DVM Available with College of Veterinary Medicine
			Dual MPH-JD Available with College of Law
Theory and Practice in Teacher Education	Teacher Education	MS	Dual MPH-MS Available with Department of Nutrition
			DrPH Community Health Education
Theory and Practice in Teacher Education	Teacher Education	MS	Epidemiology
			Graduate Certificate Food Safety
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
Theory and Practice in Teacher Education	Teacher Education	MS	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
Theory and Practice in Teacher 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 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
	Environmental Engineering	MS	Geotechnical/Materials Engineering
			Public Works Engineering
			Structural Engineering
			Transportation Engineering
	Environmental Engineering	Dual MS-MBA	Water Resources Engineering
			Graduate Certificate Contractual & Legal Affairs in Engineering & Construction
Civil and Environmental Engineering	Civil Engineering	PhD	Water Resources Engineering
			Available with Haslam College of Business
			Environmental Engineering
			Geotechnical/Materials Engineering
			Public Works Engineering
			Structural Engineering
			Transportation Engineering
			Water Resources Engineering
			Graduate Certificate Contractual & Legal Affairs in Engineering & Construction
			Water Resources Engineering
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
Electrical Engineering and Computer Science	Computer Engineering	PhD	Computer Architecture
			Computer Networks
			Computer Vision
			Cybersecurity
			Data Analytics
			Embedded Systems
			Energy Science and Engineering
			Image Processing
			Information Systems
			VLSI System Design
Electrical Engineering and Computer Science	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
Electrical Engineering and Computer Science	Computer Science		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	
Electrical Engineering		MS	Energy Science and Engineering	
			High Performance Computing	
			Intelligent Systems and Machine Learning	
			Life Science Applications	
			Software Systems	
		MS	Automotive Manufacturing and Technology	
			Communications	
			Control Systems	
			Electromagnetics and RF Circuits	
			Fire Protection Engineering	
Industrial and Systems Engineering	Industrial Engineering	MS	Power Electronics	
			Power Systems	
			Solid-State Electronics	
		Dual MS-MBA	Available with Haslam College of Business	
Interdepartmental	Engineering Science	PhD	Automotive Manufacturing and Technology	
			Communications	
			Control Systems	
			Electromagnetics and RF Circuits	
Industrial and Systems Engineering			Energy Science and Engineering	
			Fire Protection Engineering	
			Power Electronics	
			Power Systems	
Interdepartmental			Solid-State Electronics	
		Graduate Certificates	Fire Protection Engineering	
			Power and Energy Systems	
		MS	Engineering Management	
Industrial and Systems Engineering	Industrial 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	
	Engineering Science	Dual MS-MBA	Available with Haslam College of Business	
		PhD	Aerospace Engineering	
			Biomedical Engineering	
			Civil Engineering	
	Reliability and Maintainability Engineering		Energy Science and Engineering	
			Environmental Engineering	
			Mechanical Engineering	
		MS	Aerospace Engineering	
			Biomedical Engineering	
			Chemical Engineering	
			Computer Engineering	

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