

Graduate Majors, Degrees and Certificate Programs

The University of Tennessee, Knoxville

2019-2020 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 and certificates 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://tiny.utk.edu/grad-catalog>

DEPARTMENT	MAJOR	DEGREE	CONCENTRATION(s) available GRADUATE CERTIFICATES AVAILABLE
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Herbert College of Agriculture

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	
		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	MS	
Entomology and Plant Pathology	Entomology and Plant Pathology	MS	Bioinformatics and Genomics
			Entomology
			Plant Pathology
	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
			Food Microbiology
			Food Processing
			Sensory Science
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)
		Dual MLA-MArch	Available with School of Architecture
	Landscape Architecture	MALA	

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

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		
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
English	English	MA	Literature, Criticism, and Textual Studies
			Rhetoric, Writing, and Linguistics
English	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 Women, Gender, and Sexuality	
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	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
	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	
Graduate Certificate		Global Security Studies	
Psychology	Psychology	MPPA	
		Dual MPPA-JD	Available with College of Law
Psychology	Psychology	MA	Experimental Psychology
			General Psychology
		PhD	Clinical Psychology
			Counseling Psychology
Sociology	Sociology	MA	Criminology
			Critical Race and Ethnic Studies
			Environmental Sociology
			Political Economy and Globalization
	PhD	Criminology	
		Critical Race and Ethnic Studies	
		Environmental Sociology	
		Political Economy and Globalization	
Theatre	Theatre	MFA	Acting
			Costume Design
			Lighting Design
			Scene Design
			Sound and Digital Media

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	Intercollegiate Graduate Statistics and Data Science
Economics	Economics	MA	
		PhD	
Management	Management & Human Resources	MS	
Interdepartmental	Business Administration	MBA	Business Analytics
			Entrepreneurship and Innovation
			Finance
			MBA Programs for Working Professionals Aerospace and Defense MBA
			Physician Executive MBA

Interdepartmental	Business Administration	MBA	Professional MBA
			Executive MBA
		Dual MBA-JD	Available with College of Law
		Dual MS-MBA	Available with College of Agricultural Sciences and Natural Resources; Haslam College of Business; and Tickle College of Engineering
	Dual MBA-PharmD	Available with UT Health Science Center	
	Business Administration	PhD	Accounting
			Finance
			Strategy, Entrepreneurship and Organizations
			Statistics
Marketing	Business Administration	MBA	Marketing
	Business Administration	PhD	Marketing
Supply Chain Management	Business Administration	MBA	Supply Chain Management
	Supply Chain Management	MS	Integrated Supply Chain
			Tri-Continent Supply Chain
	Business Administration	PhD	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
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)
		Graduate Certificate	International Children, Youth, and Families
Educational Leadership and Policy Studies	College Student Personnel	MS	
	Educational Administration	MS	(specialization in Leadership Academy)
			[specialization in Volunteer Online Leadership Studies (V.O.L.S)]
	Education	EdS	Educational Administration
			(specialization in Leadership Academy)
			[specialization in Volunteer Online Leadership Studies (V.O.L.S)]
	Education	PhD	Leadership Studies in Education
Educational Leadership	EdD		
Higher Education Administration	PhD		
	Graduate Certificate	Educational Administration (PreK-12)	
Educational Psychology and Counseling	Counseling	MS	Clinical Mental Health Counseling
			School Counseling
	Counselor Education	PhD	
	Education	MS	Instructional Technology
	Education	EdS	School Psychology
	Education	PhD	Learning, Design, and Technology
			Learning Environments and Educational Studies
	Educational Psychology	MS	Adult Education
			Applied Educational Psychology
Educational Psychology and Research	PhD	Adult Learning	
		Applied Educational Psychology	
		Evaluation, Statistics, and Measurement	
School Psychology	PhD		

Educational Psych and Counseling		Graduate Certificates	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	
			Clinical Nutrition and Dietetics	
			Public Health Nutrition	
	Nutritional Sciences	PhD	Dual MS-MPH	Available with Department of Public Health
			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		
		Graduate Certificate	Food Safety	
Retail, Hospitality, and Tourism Management	Retail, Hospitality, and Tourism Management	PhD		
Theory and Practice in Teacher Education	Teacher Education	MS	Applied Behavior Analysis Concentration	
			Educational Studies Concentration	
			American Sign Language Education Specialization	
			Art Education Specialization	
			Cultural Studies of Educatnl Fndtns Specialization	
			Edu / Deaf and Hard of Hearing Specialization	
			Elementary Education Specialization	
			English Education Specialization	
			Literacy Education Specialization	
			Mathematics Education Specialization	
			Science Education Specialization	
			Science, Tech, Engr & Math Specialization	
			Social Science Education Specialization	
			Special Education Specialization	
			Teaching and Learning Specialization	
			World Language/ESL Specialization	
			The concentrations listed below are for: Professional Internship Initial Licensure	
			Art Education Professional Internship concentration	
			ASL Education Professional Internship concentration	
			Education of the Deaf and Hard of Hearing Professional Internship concentration	
			Elementary Education Professional Internship concentration	
			English as a Second Language Education Professional Internship concentration	
			English Education Professional Internship concentration	
Mathematics Education Professional Internship concentration				

Theory and Practice in Teacher Education	Teacher Education	MS	Mathematics Grades 6-8 Education Professional Internship concentration
			Science Education Professional Internship concentration
			Science Grades 6-8 Education Professional Internship concentration
			Social Sciences Education Professional Internship concentration
			Special Education Professional Internship concentration
			World Language Education Professional Internship concentration
			Practitioner Concentration
			English as a Second Language specialization
			Math Education specialization
			Science Education specialization
			Special Education specialization
			World Languages specialization
			Theory & Practice in Teacher Ed
			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	Cultural Studies in Education
			Rehabilitation Counseling for the Deaf
			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	Public Works Engineering	
		Structural Engineering	
Transportation Engineering			
Environmental Engineering	MS	Water Resources Engineering	
		Dual MS-MBA	Available with Haslam College of Business
		Contractual & Legal Affairs in Engineering & Construction	
Electrical Engineering and Computer Science	Computer Engineering	MS	Computer Architecture
			Computer Networks

Electrical Engr & Computer Sci	Computer Engineering	MS	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			
Electrical Engr & Computer Sci	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
			Software Systems
		Dual MS-MBA	Available with Haslam College of Business
		PhD	Computational Imaging
			Computer-Human Interaction
Cybersecurity			
Electrical Engr & Computer Sci	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
		PhD	Automotive Manufacturing and Technology
			Communications
			Control Systems
			Electromagnetics and RF Circuits
			Electromagnetics and RF Circuits

Electrical Engr & Computer Sci	Electrical Engineering	PhD	Energy Science and Engineering
			Fire Protection Engineering
			Power Electronics
			Power Systems
			Signal Processing
			Solid-State Electronics
		Graduate Certificates	Fire Protection Engineering
			Power and Energy Systems
			Wide Bandgap (WBG) Power Electronics
Engineering Fundamentals		Graduate Certificate	Engineering Education
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
		Dual MS-MBA	Available with Haslam College of Business
		PhD	Aerospace Engineering
	Biomedical Engineering		
	Civil Engineering		
	Energy Science and Engineering		
	Engineering Science	MS	Aerospace Engineering
			Biomedical Engineering
			Civil Engineering
			Energy Science and Engineering
			Environmental Engineering
			Mechanical Engineering
		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			
Mechanical Engineering			
Nuclear Engineering			
Materials Science and Engineering	Materials Science and Engineering	MS	Automotive Materials
			Nanomaterials
	Materials Science and Engineering	Dual MS-MBA	Available with Haslam College of Business
		PhD	Automotive Materials
			Energy Science and Engineering
			Nanomaterials
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	
	Aerospace Engineering	PhD	Applied Mechanics

Mech, Aerospace & Biomed Engr	Aerospace Engineering	PhD	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
		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				
Graduate Certificate		Advanced Manufacturing		
Nuclear Engineering	Medical Physics	MS		
	Nuclear Engineering	MS		
		Dual MS-MBA		Available with Haslam College of Business
		PhD		Energy Science and Engineering
				Radiological Engineering
		Graduate Certificates		Medical Physics
				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	Family Nurse Practitioner	
			Nurse Anesthesia	
			Nursing Administration	
			Pediatric Nurse Practitioner	
			Psychiatric Mental Health Nurse Practitioner	
	Nursing	DNP		Family Nurse Practitioner
				Nurse Anesthesia
				Nurse Executive Practice
				Pediatric Nurse Practitioner
				Psychiatric Mental Health Nurse Practitioner
	Nursing	PhD		
		Graduate Certificates		Family Nurse Practitioner
				Health Policy
				Psychiatric Mental Health Nurse Practitioner
				Nurse Anesthesia

	Nursing	Graduate Certificates	Nursing Administration
			Nursing Education
			Pediatric Acute Care Nurse Practitioner
			Pediatric Nurse Practitioner

College of Social Work

	Social Work	MSSW	Evidence-based Interpersonal Practice
			Organizational Leadership
		DSW	
		PhD	
		Graduate Certificates	Forensic Social Work
			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-MPH	Available with Department of Public Health in the College of Education, Health, and Human Sciences
		Dual DVM-PhD	Available with Intercollegiate Comparative and Experimental Medicine Program

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	PhD	

Minors

College	Department		Minor
Herbert College of Agriculture	Agricultural and Resource Economics		Agricultural and Resource Economics Minor
Herbert College of Agriculture	Entomology and Plant Pathology		Entomology Minor
Herbert College of Agriculture	Entomology and Plant Pathology		Entomology and Plant Pathology Minor
Herbert College of Agriculture	Entomology and Plant Pathology		Plant Pathology Minor
Herbert College of Agriculture	Forestry, Wildlife and Fisheries		Forestry Minor
Herbert College of Agriculture	Interdisciplinary		Watershed Minor
Herbert College of Agriculture	Forestry, Wildlife and Fisheries		Wildlife and Fisheries Science Minor
Herbert College of Agriculture	Forestry, Wildlife and Fisheries		Wildlife Health Minor
Herbert College of Agriculture	Plant Sciences		Plant Sciences
Arts and Sciences	Art		Art History Minor
Arts and Sciences	Interdisciplinary		Interdisciplinary Graduate Minor in Neuroscience
Arts and Sciences	Political Science		Environmental Policy Minor
Haslam College of Business	Business Analytics & Statistics		Intercollegiate Graduate Statistics Minor
Education, Hlth & Human Sciences	Kinesiology, Recreation & Sport Studies		Exercise Physiology Minor
Education, Hlth & Human Sciences	Nutrition		Nutrition Minor
Education, Hlth & Human Sciences	Public Health		Epidemiology Minor
Tickle College of Engineering	Electrical Engr and Computer Sci		Computer Science Minor
Tickle College of Engineering	Interdisciplinary		Interdisciplinary Graduate Minor in Computational Sci
Nursing	Nursing		Nursing Education Minor