Graduate Majors, Degrees and Certificate Programs

The University of Tennessee, Knoxville

2020-2021 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
Herbert College	of Agriculture		
Agricultural Leadership,	Agricultural Leadership, Education	MS	Agricultural Communications
Education and Communications	and Communications		Agricultural Education
			Agricultural Leadership
Agricultural and Resource	Agricultural and Resource	MS	Agricultural Economics
Economics	Economics		Natural Resource Economics
		Dual MS-MBA	Available with Haslam College of Business
Animal Science	Animal Science	MS	Ŭ .
		PhD	
		Dual MS-DVM	Available with College of Veterinary Medicine
Biosystems Engineering and	Biosystems Engineering	MS	
Soil Science		PhD	Energy Science and Engineering
	Biosystems Engineering Technology	MS	0,
	Environmental and Soil Science	MS	
Entomology and Plant	Entomology and Plant Pathology	MS	Bioinformatics and Genomics
Pathology	Entomology and Figure 7 autology		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 Health
	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

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

School of Architecture	Architecture	MArch	Conservation and Stewardship
			Computational Design and Fabrication
			Sustainable Design
			Urbanism
		Dual MArch-MLA	Available with School of Landscape Architecture

College of Arts and Sciences

Anthropology	Anthropology	MA	Archaeology
			Biological Anthropology
			Cultural Anthropology
			Mediterranean Archaeology
			Zooarchaeology
		PhD	0,
		PND	Archaeology
			Biological Anthropology
			Cultural Anthropology
			Zooarchaeology
		Graduate Certificate	Disasters, Displacement, and Human Rights
School of Art	Art	MFA	Ceramics
			Painting/Drawing
			Printmaking
			Sculpture
			Time-Based Art
Biochemistry and Cellular and	Biochemistry and Cellular and	MS	
Molecular Biology	Molecular Biology	PhD	
Chemistry	Chemistry	MS	Analytical Chemistry
· · · · · · · · · · · · · · · · · · ·			Environmental Chemistry
			Inorganic Chemistry
			Organic Chemistry
			Physical Chemistry
			Polymer Chemistry
		PhD	Analytical Chemistry
		2	Chemical Physics (in cooperation with Physics
		Graduate Certificate	Department)
			Environmental Chemistry
			Inorganic Chemistry
			Organic Chemistry
			Physical Chemistry
			Polymer Chemistry
			Theoretical Chemistry
			Radiochemistry
Earth and Planetary Sciences	Geology	MS	
		PhD	
Ecology and Evolutionary	Ecology and Evolutionary Biology	MS	Behavior
Biology	Ecology and Evolutionary Biology		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	
	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			Africana Studies
		Graduate	Linguistics
		Certificates	Medieval Studies
			Social Theory
			Women, Gender, and Sexuality
Mathematics	Mathematics	MMath	
		MS	Applied Mathematics
		PhD	Mathematical Biology
Microbiology	Microbiology	MS	<u> </u>
0 ,		PhD	
Modern Foreign Languages and	French	MA	
Literatures	German	MA	
	Spanish	MA	
	Modern Foreign Languages	PhD	First Concentration
	1 1 5 1 5 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2		French
			German
			Spanish
			Second Concentration
			Applied Linguistics
			French
			German
			Italian
			Latin American Studies
			Portuguese
			Russian
			Spanish
School of Music	Music	MMusic	Choral Conducting
School of Music	Iviusic	IVIIVIUSIC	
			Collaborative Piano
			Composition
			Instrumental Conducting
			Jazz
			Music Education
			Music Theory
			Musicology
			Performance (Organ, Percussion, Piano, Strings,
			Voice or Winds)
		Graduate	Artist Certificate in Music
		Certificates	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
			Chemical Physics
			Condensed Matter and Surface Physics
			Elementary Particle Physics
			Geophysics
			Mathematical and Computational Physics
			Nuclear and Relativistic Heavy Ion Physics
			Theoretical Physics
	1		Theoretical Physics

Physics and Astronomy	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
			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	Business Analytics	MS	
Statistics		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 & Entrepreneurship	Management & Human Resources	MS	
		MBA	Consulting
Interdepartmental	Business Administration	MBA	Business Analytics
			Entrepreneurship and Innovation
			Finance
			MBA Programs for Working Professionals
			Aerospace and Defense MBA
			Physician Executive MBA
			Professional MBA
			Executive MBA
		Dual MBA-JD	Available with College of Law
			Available with College of Agricultural Sciences and
		Dual MS-MBA	Natural Resources; Haslam College of Business; and
			Tickle College of Engineering
Interdepartmental		Dual MBA-PharmD	Available with UT Health Science Center

Interdepartmental	Business Administration	PhD	Accounting
			Finance
			Strategy, Entrepreneurship and Organizations
			Statistics
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
			Strategic and Digital Communication
		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	
		Graduate Certificate	International Children, Youth, and Families
Educational Leadership and	College Student Personnel	MS	
Policy Studies	Educational Administration	MS	Higher Education Administration
			Instructional Leadership
			(specialization in Leadership Academy)
			(specialization in Online Leadership Studies)
	Education	EdS	Educational Administration
			(specialization in Leadership Academy)
			(specialization in Online Leadership Studies)
	Education	PhD	Leadership Studies in Education
	Educational Leadership	EdD	,
	Higher Education Administration	PhD	
		Graduate Certificate	Instructional Leadership
Educational Psychology and	Counseling	MS	Clinical Mental Health Counseling
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	nology MS	Adult Education
	Educational Esychology	IVIO	Applied Educational Psychology
	Educational Psychology and	PhD	Adult Learning
	Research		Applied Educational Psychology
			Evaluation, Statistics, and Methodology
	School Psychology	PhD	
		Graduate	Evaluation, Statistics, and Measurement
		Certificates	Grief, Loss and Trauma
		Certificates	Online Teaching and Learning
			Qualitative Research Methods in Education
Kinesiology, Recreation, and	Kinesiology	MS	Biomechanics
Sport Studies			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;
	Kinesiology and Sport Studies	טוו ו	exercise physiology; physical activity epidemiology; sport psychology and motor behavior)
			Sport Studies (specializations in socio-cultural stud
Nutrition	Nutrition	MC	and sport management)
Nutrition	Nutrition	MS	Cellular and Molecular Nutrition
			Clinical Nutrition and Dietetics
		D 1140 14D11	Public Health Nutrition
	Nutritional Colonses	Dual MS-MPH	Available with Department of Public Health
	Nutritional Sciences	PhD	Cellular and Molecular Nutrition
B 15 11 10	B. I. I. W.		Community Nutrition
Public Health	Public Health	MPH	Community Health Education
			Epidemiology
			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	
	Public Health Sciences	PhD	
		Graduate Certificate	Food Safety
Retail, Hospitality, and Tourism Management	Retail, Hospitality, and Tourism Management	PhD	
Theory and Practice in Teacher	Teacher Education	MS	Applied Behavior Analysis Concentration
Education		MS	Educational Studies Concentration
			American Sign Language Education Specializa
			Art Education Specialization
			Cultural Studies of Eductnl 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
Theory and Practice in Teacher	Teacher Education	MS	The concentrations listed below are for:
Education			Professional Internship Initial Licensure
			Art Education Professional Internship concentration
			ASL Education Professional Internship concentrati
			Education of the Deaf and Hard of Hearing
			Professional Internship concentration
			Elementary Education Professional Internship concentration
			English Education and English as a Second
			Language Professional Internship concentration
			Mathematics Education Professional Internship concentration
			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
	1	i	concentration

Theory and Practice in Teacher Education	Teacher Education	MS	Special Education Professional Internship concentration World Language Education Professional Internship concentration
	Teacher Education	MS	Practitioner Concentration
			English as a Second Language specialization
			Math Education specialization
			Science Education specialization
			Special Education specialization
			World Languages specialization
	Teacher Education	EdS	Educational Technology
			Elementary Education
			English Education
			Literacy Education
			Mathematics Education
			Practitioner
			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	Civil Engineering	MS	Construction Engineering
Engineering			Geotechnical/Materials Engineering
			Public Works Engineering
			Structural Engineering
			Transportation Engineering
			Transportation and Infrastructure 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
			Water Resources Engineering
	Environmental Engineering	MS	Water Resources Engineering
		Dual MS-MBA	Available with Haslam College of Business
Electrical Engineering and	Computer Engineering	MS	Computer Architecture
Computer Science			Computer Networks
			Computer Vision
			Cybersecurity
			Data Analytics
			Embedded Systems
			Image Processing
			Information Systems

Electrical Engr & Computer Sci	Computer Engineering	MS	Signal Processing
			VLSI System Design
		Dual MS-MBA	Available with Haslam College of Business
	Computer Engineering	PhD	Computer Architecture
			Computer Networks
			Computer Vision
			Cybersecurity
			Data Analytics
			Embedded Systems
			Energy Science and Engineering
			Image Processing
			Information Systems
			Signal Processing
			VLSI System Design
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
		D 1110 11D1	Software Systems
		Dual MS-MBA	Available with Haslam College of Business
	Computer Science	PhD	Computational Imaging
			Computer-Human Interaction
			Cybersecurity
			Cyberinfrastructure
			Data Analytics
			Data Mining
			Data Visualization
			Discrete Optimization
			Energy Science and Engineering
			High Performance Computing
			Intelligent Systems and Machine Learning
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 MC MDA	
	Electrical Engineering	Dual MS-MBA PhD	Available with Haslam College of Business Automotive Manufacturing and Technology
	Lieumai Engineening	רווט	Communications
			Control Systems
			Electromagnetics and RF Circuits
			Energy Science and Engineering
			Fire Protection Engineering
			Power Electronics
			Power Systems
			Signal Processing
		0 1 1	Solid-State Electronics
		Graduate	Fire Protection Engineering
		Certificates	Power and Energy Systems
		8	Wide Bandgap (WBG) Power Electronics

Engineering Fundamentals		Graduate Certificate	Engineering Education
Industrial and Systems	Industrial Engineering	MS	Automotive Manufacturing
Engineering			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
intercopartimental	Engineering colonies	WIO	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	MS	Aerospace Engineering
	Engineering	WIO	Biomedical Engineering
	3 4 3		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
		Duai WO-WDA	Reliability and Maintainability Engineering
			Chemical Engineering
		Graduate	Computer Engineering
			Electrical Engineering
		Certificates	Industrial Engineering
			Mechanical Engineering
Materials Science and	Materials Science and Engineering	MS	Nuclear Engineering
Engineering	Materials Science and Engineering	IVIO	Automotive Materials
Linginiooning			Nanomaterials
		Dual MS-MBA	Available with Haslam College of Business
		PhD	Automotive Materials
			Energy Science and Engineering
			Nanomaterials
Mechanical, Aerospace, and	Aerospace Engineering	MS	Applied Mechanics
Biomedical Engineering			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
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	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	Nuclear Safety
			Radiological Engineering
		Dual MS-MBA	Available with Haslam College of Business
		PhD	Energy Science and Engineering
			Nuclear Safety
			Radiological Engineering
		Graduate	Medical Physics
		Certificates	Nuclear Security Science and Analysis

College of Law

	Law	MLSD	
	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	
		Graduate Certificate	Legal Studies

College of Nursing

Nursing	MSN	Nurse Anesthesia
	DNP	Family Nurse Practitioner
		Nurse Anesthesia
		Nurse Executive Practice
		Pediatric Primary Care Nurse Practitioner
		Pediatric Primary/Acute Care Dual Nurse Practitioner
		Psychiatric Mental Health Nurse Practitioner
	PhD	
	Graduate	Family Nurse Practitioner
	Certificates	Health Policy
		Healthcare Informatics
		Nurse Executive Practice
		Nursing Education
		Pediatric Acute Care Nurse Practitioner
		Pediatric Nurse Practitioner
		Psychiatric Mental Health Nurse Practitioner

College of Social Work

Social Work	MSSW	Evidence-based Interpersonal Practice
		Organizational Leadership
	DSW	
	PhD	

	Social Work		Forensic Social Work
		Graduate	Gerontology
		Certificates	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-MS	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
	Dual DVM-PhD	Available with Intercollegiate Comparative and Experimental Medicine Program

Intercollegiate

Comparative and Experimental	Comparative and Experimental	MS	Forensic Odontology
Medicine	Medicine	PhD	
		Dual MS-DVM	Available with College of Veterinary Medicine
		Dual PhD-DVM	Available with College of Veterinary Medicine
Bredesen Center for	Data Science and Engineering	PhD	
Interdisciplinary Research and Graduate Education	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 and Data Science Minor
Education, Health & Human Sciences	Kinesiology, Recreation & Sport Studies	Exercise Physiology Minor
Education, Health & Human Sciences	Nutrition	Nutrition Minor
Education, Health & Human Sciences	Public Health	Epidemiology Minor
Tickle College of Engineering	Electrical Engr and Computer Science	Computer Science Minor
Tickle College of Engineering	Interdisciplinary	Interdisciplinary Graduate Minor in Computational Science