

COLLEGE OF AGRICULTURE AND HUMAN ECOLOGY
FACULTY AREAS OF EXPERTISE BY DEPARTMENT

SCHOOL OF AGRICULTURE		
NAME	CONTACT INFORMATION	RESEARCH INTERESTS AND EXPERTISE
Airhart, Douglas Professor	dairhart@tntech.edu (931) 372-3288	Basic plant sciences: Integrated Pest Management. Landscape design, installation, and maintenance. Plant propagation. Floral Arrangements. Interior plantscaping. Horticultural activities for individuals with disabilities. Field and container nursery production. Greenhouse production and maintenance. Roadside wildflowers. Urban forestry and arboriculture. Horticultural therapy.
Baier, Jim Assistant Professor	ibaier@tntech.edu (931) 372-3193	Sweet sorghum • Agricultural engineering
Best, Michael Professor	mbest@tntech.edu (931) 372-3154	Feasibility of value-added agricultural enterprises and renewable energy systems
Bowhay, Ciana Assistant Professor	cbowhay@tntech.edu (210) 683-6435	Nitrogen metabolism and utilization in beef cattle · Engagement, motivation, and identity development among animal science students · Sustainable production of beef through precision feeding of beef cattle · Scholarship of teaching and learning in animal science · Animal Nutrition
Duncan, Dennis Professor	dduncan@tntech.edu (931) 372-3418	Exploring effective solutions to addressing food insecurity at the K-12 level of education • Identifying industry leaders' beliefs about and needs among new hires regarding career training and soft skill development at the university level • Determining in-service and certification needs of TN agriscience teachers.
Fennewald, Dennis Associate Professor	dfennewald@tntech.edu (931) 372-3251	Beef Cattle Genetics • Genotype by Environment Interactions Grazing Systems/Forage Management • Year-round Grazing
Greene, Bruce Professor	bgreene@tntech.edu (931) 372-3012	Animal breeding and genetics • Animal reproduction • Forage production and utilization by grazing animals • Forage species for the Upper Cumberland region, Tennessee, and the Southeast • Honey bee survivability and adaptation to the Upper Cumberland region
Leckie, Brian Associate Professor	bleckie@tntech.edu (931) 372-6131	Using genomics enabled strategies to manage biotic constraints in vegetables • Alternative pest management strategies for crop production • Sustainable management tools for small holder farms • Plant breeding • Applied entomology • Plant molecular biology
Morris, Keith Associate Professor	kmorris@tntech.edu (931) 372-6134	Precision agriculture • Spatial technologies • Agricultural remote sensing and GIS
Natrass, Michael Assistant Professor	mnatrass@tntech.edu (931) 372-3218	Agronomy • Precision agriculture • Plant and soil nutrient analysis • Nutrient management strategies for crop and hay production • Unmanned aerial vehicles • SMART farm technology • Water quality • Phytoremediation

Park, Song Associate Professor	spark@tntech.edu (931) 372-3155	Environmental and Natural (Water) Resource Management and Economics, Integrated Cropping and Grazing System, Sustainable (Bio)energy Production, Animal Disease Control, Ecological Economics, Risk Analysis, and Interdisciplinary Research
SCHOOL OF HUMAN ECOLOGY		
NAME	CONTACT INFORMATION	RESEARCH INTERESTS AND EXPERTISE
Anderson, Melinda Professor	manderson@tntech.edu (931) 372-3378	Accreditation report writing and collection of program data • Leadership and professionalism • Dietetics education and accreditation
Barlow, Allison Lecturer	abarlow@tntech.edu (931) 372-6157	Medical Nutrition Therapy • Nutrition in Disease • Nutrition Education • Nutrition Counseling • Sports Nutrition and Dietetics
Chitiyo, Rufaro Assistant Professor	rchitiyo@tntech.edu (931) 372-6847	Child abuse and neglect • Substance abuse in families with young children • Adverse childhood experiences and resilience • Self-care for professionals • Immigration Issues Affecting Women
Gunnels, Aeris Lecturer	agunnels@tntech.edu (931) 372-3367	Architecture • Interior design • Drafting • Computer aided design • Architectural rendering • Environmental and sustainable design • Arcology • Architectonics • Permaculture • Renewable energy • Biomimicry
Hutson, Samantha Assistant Professor	shutson@tntech.edu (931) 372-3865	Food insecurity • Poverty • Nutrition education • Public health • Social assistance programs • Weight management techniques • Children & family health education • Community Health and Nutrition in Rural Areas
Shiple, Lee Ann Professor	lshiple@tntech.edu (931) 372-3867	Family life education: interpersonal relationships, human sexuality • Parenting education • Application of family theory to understanding intergenerational family dynamics • Program accreditation • Mentoring leadership in young women for professional associations in human development and family relations
Sisk, Cara Assistant Professor	csisk@tntech.edu (931) 372-6017	Children and families' experiences in health care • Children with special health care needs and friendship • Children with disabilities in health care • Child life specialist psychosocial support and interventions
Upole, Hannah Assistant Professor	hupole@tntech.edu (931) 372-6066	Impact of social media on fashion and beauty brand images • Maintenance of fashion and beauty brand identity in a digital environment • Intersection of beauty and fashion in practical and theoretical applications • Definition of beauty in a modern society • Cultural relevancy and beauty ideals • Smart textiles and farm to fashion movements • Consumer behavior in the textile industry • Sustainability of the fashion and beauty industry