University of Arkansas Department of Horticulture

GRADUATE PROGRAMS

horticulture.uark.edu

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UNIVERSITY OF ARKANSAS
Dale Bumpers College of Agricultural, Food & Life Sciences
Horticulture

U of A DIVISION OF AGRICULTURE
RESEARCH & EXTENSION
University of Arkansas System

For information regarding graduate school requirements and application process, please visit **http://graduate-and-international.uark.edu/**

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Come Grow With Us

The Department of Horticulture is involved in teaching , research, and service in accordance with the land grant mission of the University of Arkansas. The faculty provide leadership for the development, production and culture of fruits, vegetables, turf grasses, and ornamental plants of importance to Arkansas, the region and the nation .

Graduate Programs

The Department offers two options for a Master's Degree in Horticulture. One is a two-year thesis program in which students conduct scientific studies and prepare research reports for scientific journals; the other is a non-thesis program requiring primarily coursework.

The Ph.D. degree in Horticulture is administered jointly with the College of Agricultural, Food, and Life Sciences. This degree takes 3-4 years and requires original research and the development of new knowledge.

Horticulture Research

Horticulture research at the University of Arkansas includes: genetics, breeding and cultivar development of fruit and vegetable crops, ornamentals, and turfgrasses; physiology and culture of fruit, vegetable, and ornamental crops; physiology and management of turfgrasses; biotechnology; and sustainable landscape management and design.

Interdisciplinary research is strong. There is excellent cooperation with Plant Pathology, Food Science, Entomology, Biological Sciences, Crop, Soils and Environmental Sciences and other departments. Plant production and processing systems that emphasize value added and utilize alternative pest control systems are encouraged.

Facilities

The Horticulture Department is located on the third floor of the Plant Sciences Building. In addition to offices for faculty, staff, and graduate students, there are five research laboratories.
Our department shares greenhouse and lab space in the state-of-the-art facility on campus. This facility includes conventional greenhouse space, growth chambers, containment facilities for genetic engineering, and bio-control research.

The Department also has nine 1,000-square feet greenhouses at the Arkansas Agricultural Research and Extension Center located north of the campus. The Arkansas Agricultural Research and Extension Center have 90+ acres of land devoted to horticulture field research. Plant Evaluation gardens are located at the on-campus center as well.

Off-Campus Facilities

The Fruit Research Station at Clarksville- is 85 miles from Fayetteville. A large portion of our fruit crops research is conducted there, including breeding programs for grape, blackberry, peach, muscadine, and nectarine; cultivar testing on numerous crops; and cultural research on tree fruits, small fruits, and grapes. This station has 230 acres of land, greenhouses, cold storage, a laboratory, and office space.

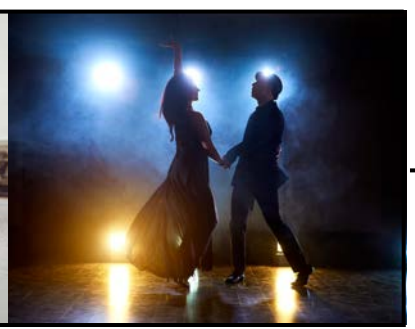
The Vegetable Research Station at Kibler- is a one-hour drive from the Fayetteville campus and is a vital component of the vegetable research program. Eighty-six acres of land, greenhouses, and cold storage for seeds and produce make this a valuable station. Although this station is only 50 miles away from campus, it provides a different environment due to elevation and topography. It provides excellent conditions for screening for disease and insect resistance and for stress adaptation.

The Southwest Research and Extension Center at Hope- is a large facility serving agriculture and forestry in that area. Resident program technicians contribute major efforts to fruits, vegetables, ornamentals, and forestry research as directed by department faculty.

Excellent Location

Located in the beautiful Ozark Mountains of Northwest Arkansas, greater Fayetteville is a thriving metropolis area of over 560,000 residents. In addition to being the home of the University of Arkansas, the area is home to nationally known corporations such as Walmart, J.B. Hunt Transportation, and Tyson Foods.

Recreational and Cultural Opportunites



Northwest Arkansas offers a wide array of opportunities for camping, hiking, fishing, and mountain biking. The University of Arkansas and the City of Fayetteville sponsor numerous cultural activities including Broadway shows, musicals, and international performers at the Walton Arts Center and the University of Arkansas Theater. Northwest Arkansas boasts its own symphony orchestra, world renowned Crystal Bridges museum, and live music is abundant in many venues along Fayetteville's Dickson Street.

Graduate Faculty in the Department of Horticulture

Dr. Amanda McWhirt, Associate Professor /Extension Specialist/ Graduate Coordinator
Education: Ph.D. in Agroecology, North Carolina State University
Phone: (501) 671-2252
Email: amcwhirt@uada.edu
Areas of Interest: Practices and technologies in production

Dr. Matt Bertucci, Assistant Professor
Education: Ph.D. Horticulture, North Carolina State University
Phone: (479) 575-2790
Email: bertucci@uark.edu
Areas of Interest: Weed science, sustainable fruit and vegetable production, and small farms

Dr. Aaron Cato, Extension Specialist-Horticulture IPM
Education: Ph.D. in Entomology, University of Arkansas
Phone: (501) 671-2191
Email: ajcato@uark.edu
Areas of Interest: IPM, Pest Biology, Pest Ecology, and Pest Monitoring Strategies

Dr. Mary Savin, Professor & Department Head
Education: Ph.D. in Biological Sciences, University of Rhode Island
Phone: (479)-575-5740
Email: msavin@uark.edu
Areas of Interest: Microbial Ecology and Soil Biology

Dr. Anthony Bowden, Assistant Professor
Education: Ph.D. in Novel Plant Propagation Techniques, Mississippi State University
Phone: (256) 282-5576
Email: abowden@uada.edu
Areas of Interest: Plant propagation & plant production technologies

Dr. Ryan Dickson, Assistant Professor
Eduction: Ph.D. Environmental Horticulture, University of Florida
Phone: (479) 575-2533
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Areas of Interest: Improving root zone health for hydroponic and soilless crops and optimizing small fruit production in soilless culture

Graduate Faculty in the Department of Horticulture

Dr. Wendell Hutchens, Assistant Professor
Education: Ph.D. in Plant Pathology, Virgina Tech
Phone: (479) 575-6205
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Areas of Interest: Turf Pathology

Dr. Garry V. McDonald, Teaching Associate Professor
Education: Ph.D. in Horticulture, Texas A&M University
Phone: (479) 575-8780
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Areas of Interest: Sustainable landscape design, installation, management

Dr. Amanda Philyaw Perez, Associate Professor
Education: Doctorate of Public Health, University of Arkansas Medical School
Phone: (501) 671-2228
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Areas of Interest: Food Processing and Food Safety

Dr. Jackie Lee, Associate Professor/ Director of the Fruit Research Station
Education: Ph.D. in Entomology, University of Arkansas
Phone: (501) 671-2191
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Areas of Interest: IPM practices and pesticide regulations

Dr. Michael D. Richardson, Professor
Education: Ph.D. in Agronomy, University of Georgia, Athens
Phone: (479) 575-2860
Email: mricha@uark.edu
Areas of Interest: Turfgrass Science

Dr. Curt Rom, University Professor
Education: Ph.D. in Horticulture & Interdisciplinary Plant/Crop Physiology, Ohio State University
Phone: (479) 575-7434
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Areas of Interest: Sustainability programs & alternative crops

Graduate Faculty in the Department of Horticulture

Dr. Ainong Shi, Associate Professor
Education: Ph.D. in Plant Pathology & Crop Sciences, North Carolina State University
Phone: (479) 575-2670
Email: ashi@uark.edu
Areas of Interest: Molecular Vegetable Breeding & Genetics

Dr. Hannah Wright Smith, Weed Specialist
Education: Ph.D. in Weed Science, University of Georgia
Phone: (501) 251-4416
Email: hw044@uark.edu
Areas of Interest: Turfgrass, Speciality Crops, & Forestry

Dr. Margaret Worthington, Associate Professor
Education: Ph.D. in Crop Sciences, North Carolina State University
Phone: (479) 575-2122
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Areas of Interest: Molecular Fruit Breeding & Genetics