

ECU MEDICAL BOTANY

DEPT OF BIOLOGICAL & ENVIRONMENTAL SCIENCES

Careers with a Medical Botany Degree:

- Agricultural plant scientist
- Agronomist
- Chief grower
- Conservationist
- Enthobotanists
- Environmental biologist
- Forest ecologist
- Graduate school
- Horticulturist
- Industrial ecologist
- Interpretive naturalist
- Mycologist
- NASA
- Plant breeder
- Research assistant
- Soil and water Conservationist
- Technical assistant
- Toxicologist
- Wetland conservationist

A Bachelor of Science in Medical Botany empowers students to apply coursework in:

- Botany
- Zoology
- Genetics
- Physiology
- Microbiology
- Medical Botany
- Entomology
- Plant Ecophysiology

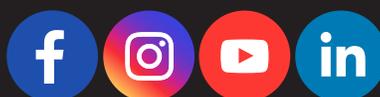


It provides flexibility through electives so that many path options are available all with the goal in mind of students understanding the complex relationship between plants and humans. Ultimately, this deep understanding will enable students to enter graduate school or employment so that they may transform their futures in biotech, agribusiness, pharmacology, medicine, homeopathy, horticulture, law, Native American affairs, research, industry and others into successful futures.



East Central University

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Ada, Oklahoma 74820



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Campus Tours:

ecok.edu/take-a-tour

580-559-5628

ecutiger@ecok.edu



Leah Dudley, Ph.D.

- Plant Eophysiology
- B.S. in Biology, Ph.D. in Biology
- Office: PES 168 / 580-559-5495 / ldudley@ecok.edu
- Courses Taught: Botany, Medical Botany, Ecology, Ethnobotany Evolution, General Biology, Mycology, Plant Ecophysiology, and Evolution
- Research Interest: My research generally explores how plants deal with a drying world, using dichotomies such as male versus female plants of

dioecious species and outcrossing vs. selfing plant mating systems to test predictions. I meld tools and ideas from both plant ecophysiology and evolution in both field and greenhouse environments from extreme montane environments to lowland prairies. Currently, I am applying these themes to a culturally relevant agricultural system, The Three Sisters. I am addressing how plant-pollinator interactions are influenced by polyculture (bean, corn & squash) compared to monoculture growing conditions under varying soil water availability.



George Wang, Ph.D.

- Community Ecologist
- B.S. in Zoology, M.S. in Biology, Ph.D. in Environmental and Evolutionary Biology
- Office: PES 104 / 580-559-5694 / gwang@ecok.edu
- Courses Taught: Evolution, General Biology, General Ecology, General Zoology, Human Anatomy, Medical Terminology
- Research Interest: I am a community ecologist interested in plant-insect interactions. I conduct field-and-laboratory based experiments

to examine the effects of various biotic and abiotic factors on insect performance and community dynamics.



Alisha Howard, Ph.D.

- Geneticist
- B.S. in Biochemistry and Molecular Biology, B.S. in Chemistry (A.C.S. certified), Ph.D. in Biochemistry and Molecular Biology
- Office: PES 164 / 580-559-5792 / ahoward@ecok.edu
- Courses Taught: General Biology, Genetics, Intro to Biotechnology, Biochemistry of Human Disease, Research Methods/BioEthics, Genomics and Bioinformatics, Immunology

• Research Interest: We are using the viral oncoprotein tax from human T-cell leukemia virus to identify new host-virus interactions important in viral gene activation.



April Nesbit, Ph.D.

- Molecular Biologist
- B.S. in Biochemistry, Ph.D. in Biomolecular Chemistry
- Office: PES 170 / 580-559-5501 / anesbit@ecok.edu
- Courses Taught: General Biology, General Microbiology, Forensics, Immunology, Biochemical Genetics, Cell and Molecular Biology, Advanced Molecular Biology, Biology Senior Seminar
- Research Interest: Regulation of alternative metabolism in E. coli,

identifying bacteria isolates from Blue River, isolating bacteria that produce antibiotics.

Biological & Environmental Sciences

Dean: Dr. Ken Andrews
Chair: Dr. Mike Bay
Degree: Bachelor of Science
Concentrations: 7
Minors: 2
Faculty: 8 full-time & 2 part-time
Organizations: 4
Scholarships: 25
Location: 158 PES Building

ECU at a Glance

Undergraduate Enrollment: 3,300
Undergraduate Majors: 60+
Student to Faculty Ratio: 17 to 1
Average Class Size: 22
Faculty with PhDs: 65%
States Represented: 28
Countries Represented: 30+
Year Founded: 1909
Campus Size: 140 acres
Area Location: Ada, Oklahoma

Tiger Spirit

Mascot: Roary the Tiger
School Colors: Orange & Black
Student Organizations: 35+
Athletics: NCAA Division II

Men's:	Women's:
Football	Basketball
Baseball	Volleyball
Basketball	Softball
Cross Country	Soccer
Track & Field	Cross Country
Golf	Track & Field
	Golf

To prepare students for tomorrow's world through a dynamic & diverse learning experience.

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• Dallas, TX