ECOLOGY

DEPARTMENT OF BIOLOGICAL AND ENVIRONMENTAL SCIENCES



Careers with a Ecology Degree :

Field/Research Technician
Wildlife Biologist
Laboratory Assistant
Wildlife Specialist
Volunteer Coordinator
Program Scientist
Teacher
Forester
Natural Resource Mgr.
Park Naturalist
Field Ecologist
Environmental Consultant

*Ecology degree prepares students to apply for advanced degree or to work in government and/or nonprofit organizations along with conservation of natural resources.

Show Me the Money!

Graduates with a Ecology degree typically earn between $30,000 and $60,000 for entry-level jobs. As a college graduate, you can earn an average of 75% more than those with only a high school degree per

The Chicago Tribune!
(NACE 2022 Salary Report)

› What is Ecology?

Ecology is the study of organisms, including humans, and a diverse array of interactions with their environment. Ecologist work with organisms over a broad scale from bacteria in soils to landscape ecosystem processes. Ecologists inform us about threats to biodiversity due to invasive organisms, increased water system health through wetland filtration, organisms such as horseshoe crabs that provide vital medicine (hemolymph that treats leukemia), when we are at risk for diseases like Lyme disease, ways to protect at-risk or endangered species so that we can bring them back like the Bald Eagle, ways to increase forest health, management solutions for agriculture and so much more. Graduating with a concentration in Ecology prepares you for a diversity of careers, including research, writing, policy, NGO's, consulting, government and more.

› Concentration Coursework

Coursework in this program includes a variety of courses that align with the Ecological Society of America 4DEE framework. Courses include Evolution, Chemistry, Organic Chemistry, Biostatistics, Comparative Vertebrate Anatomy, Animal Parasitology, Field Methods, Herpetology, Mycology, Plant Physiology, Wildlife Management, Human Physiology, Ecology, and Undergraduate Research Experience. A lot of learning happens in the field with hands-on experience.







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Ada, Oklahoma 74820

www.ecok.edu/Bio • 580-559-5792

Campus Tour:
ecok.edu/take-a-tour
580-559-5628
ecutiger@ecok.edu

ECOLOGY

› Meet the Ecology Faculty



Leah Dudley, PhD
Plant Ecophysiologist
Plant ecology and evolutionary themes using dichotomies to test theories in the field, eg females vs males or selfers vs outcrossers.



Associate Faculty Topic Specialities
GIS, Vector-borne transmission, Herpetology, Soil and Water Sampling, Microbial Metagenomics

George Wang, PhD
Community Ecologist
Ecological field work focusing on topics including insect community ecology, plant-insect interactions, impact of parasites on wildlife,.





Jose Montalva, MS
Community Entomologist
Research work focuses on the biology, taxonomy, and systematics of native bees (Anthophila) in the study of key ecological processes.



Techniques of Ecology













To the Laboratory

The Center for Undergraduate Research and Learning (CURL) houses a collaborative network of laboratories utilized for mentored undergraduate research projects.

From the Field

Go where the data is, mastering both field methods in data collection and analysis. Through hands-on sampling techniques, gain firsthand experience and see how research and course work can be impactful in your community, your region, and beyond.

Check out the GIS certificate!

College of Health & Sciences

Dean: Dr. Ken Andrews

BES Department:

Chair: Dr. Alisha Howard
Degree: Bachelor of Science
Programs: 2
Concentrations: 7
Minors: 2
Faculty: 11 full-time & 3 part-time
Organizations: 4
Scholarships: 28
Location: 160 PES Building

ECU at a Glance:

Undergraduate Enrollment: 3,000+
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

Check out our Master's of Biological Sciences: Water Science Concentration

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