

Careers with a Biology Degree:

Biological Researcher Biologist Botanist Clinical Laboratory Scientist Dentist* **Ecologist Environmental Scientist** Fish & Game Warden Forester Geneticist Marine Biologist Microbiologist Molecular Biologist **Pathologist** Pharmaceutical Sales Rep. **Physical Therapist** Physician* Physician's Assistant* Teacher **Toxicologist** Veterinarian Zoologist *Biology degree prepares student to apply for

how Me the Money!

advanced degree

Graduates with a Biology degree typically earn between \$50,000 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!



Biology

DEPARTMENT OF BIOLOGICAL & ENVIRONMENTAL SCIENCES



The Biology program provides undergraduate training for students interested in the life sciences and who may wish to pursue careers or graduate school in this area.

Coursework



The faculty and facilities of the program permit the investigation of biology at the subcellular, cellular, organismal, population and community levels. Courses taught in the department emphasize scientific principles and concepts. These principles and concepts aid in understanding structure, function and behavior of the individual organisms, as well as how individual organisms interact within the natural environment.

Scholarships for Biology Majors

The Biology program makes scholarships available to qualified students through the following programs:

- Dr. Thomas J. McKnight Scholarship Fund
- Fred and Mary Pfeffer Scholarship
- Carlock Scholarship
- Benny & Rita Edwards Scholarship
- Bill & Sondra Cole Scholarship
- Carl Osborn Memorial Scholarship
- Claude Carter Scholarship
- Don & Jane Kellogg Mathematics & Science Teaching Scholarship
- Don Stafford Science Education Scholarship

- Dr. David Ramsey Pre-Med Scholarship
- Dr. James Clark Scholarship
- Dr. Jim G. Duckett Scholarship
- Francisco-Hatchett Scholarship
- Higginbotham Scholarship
- Heather C. Marco Memorial Scholarship
- Harvey Price Memorial Scholarship
- James A Thomas Scholarship
- Jim & Jo Conway Scholarship

- Millsap Scholarship for Health Professions
- 1950s Science Fund
- Shana L. Hackworth Memorial Scholarship
- Ramadan Research Internship
- Ramadan Scholarship
- SBC Scholarship
- Delta Dental Scholarship
- Briles Scholarship
- Bays Scholarship

East Central University 1100 E. 14th St. Ada, Oklahoma 74820 www.ecok.edu/Bio 580-559-5497



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

Biology Degree Options

Biology

Biology

A bachelor of science is designed for students who plan to become practicing biologists in industry or government, or plan to pursue a graduate degree in Biology. This degree program is usually chosen by those students who need pre-professional training before entering the schools of Medicine, Dentistry, Veterinary Medicine or other health-related professional schools or graduate school. the life sciences provide many areas from which students can choose careers. To meet these needs, the Biology program offers a variety of courses and several concentrations.

Biology Teacher Certification

A bachelor of science for teacher certification gives a prospective science teacher an appropriate academic background in Biology and Physical Sciences and in the methods of teaching.

Clinical Laboratory Science

A Bachelor of Science for Clinical Laboratory Science prepares students to conduct and supervise complex medical tests, clinical trials and research experiments. Students also learn to manage clinical laboratories. The management of these labs would include consulting with physicians or researchers on diagnoses, disease causation, spread of disease and research outcomes. This degree concentration requires three years of prescribed study on campus followed by a year of clinical training in an approved hospital school of clinical laboratory science.

Ecology

Course work in this program includes a variety of courses that align with the Ecological Society of America 4DE framework. Courses include Zoology, Organic Chemistry, Biostatistics, Comparative Vertebrate Anatomy, Animal Parasitology, Field Methods, Herpetology, Plant Physiology, Wildlife Management, Human Physiology, Ecology and Undergraduate Research. The life sciences provide many areas from which students can choose careers; to meet these needs, the Biology program offers a variety of courses and several concentrations. Graduating with a concentration in Ecology prepares you for a diversity of careers, including research, writing, policy, ngo's, consulting, government and more.

Health Sciences

East Central University offers courses that are required for admission to professional schools of Medicine, Dentistry, Optometry, Chiropractic Medicine, Physicians Associate or Veterinary Medicine. Although the pre-professional science student may select any degree major, most successful candidates major in Biology. Course work must be arranged so as to complete the required work in time for admission exams and application in your program (usually spring of junior year). For more information, contact the Department of Biology.

Medical Botany

A Bachelor of Science in Medical Botany empowers students to apply course work in Botany, Zoology, Genetics, Physiology, Microbiology, Medical Botany, Entomology and 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 and others into successful futures.

Molecular Biology

The Bachelor of Science in Molecular Biology prepares students for graduate research and/or employment in the rapidly growing fields of biotechnology, agribusiness, industry, law enforcement and molecular biology.





Biology

Dean: Dr. Ken Andrews,

College of Health & Science

Chair: Dr. Alisha Howard **Degree:** Bachelor of Science

Concentrations: 7
Minors: 2

Faculty: 8 Full-time & 2 part-time

Organizations: 4 Scholarships: 2 Location: 101 PES



ECU at a Glance

Undergraduate Enrollment: 3,000 Undergraduate Majors: 70+ Student to Faculty Ratio: 13 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: 60+ Athletics: NCAA Division II

Men's: Football Baseball

Baseball Basketball Cross Country Track & Field

Women's:

Basketball Volleyball Softball

Cross Country
Track & Field

We educate and empower students to understand and transform our world.

East Central University, in compliance with Title VI and Title VII of the Civil Rights Act of 1964 (as amended), Executive Order 11246 (as amended), Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973 (as amended), the Americans With Disabilities Act of 1990, the Civil Rights Act of 1991, and other federal and state laws, does not discriminate on the basis of frace, color, national origin, sex, age, religion, disability, sexual orientation or status as a veteran in any of its policies, practices or procedures. This includes, but is not limited to, admissions, employment, financial aid, and education services. This publication is printed and issued by East Central University as authorized by Title 70 OS 1981, Section 3903. 500 copies have been prepared and distributed at a cost of \$200.00. Copies have been deposited with the Publications Clearinghouse of the Oklahoma Statutes. 08/2016 for Title 50 of the Oklahoma Statutes. 08/2016