



DEPARTMENT OF AGRICULTURE,
BIOLOGY AND HEALTH SCIENCES

BACHELOR OF SCIENCE IN BIOLOGY



DEPARTMENTAL DESCRIPTION

The Department of Agriculture, Biology, and Health Sciences offers three concentrations in biology: Cell and Molecular Biology, Organismal Biology, and Medical Laboratory Science. The department is committed to providing students a personalized, rewarding, and challenging undergraduate experience.

MAJOR DESCRIPTION

The study of biology provides an understanding of living things in the world around us. Biologists examine life at the ecosystem, population, organismal, cellular, and molecular levels in their attempt to understand the mechanisms involved in the development, evolution, and interrelationships between organisms at these various levels.

SCHOLARSHIPS

The Department of Agriculture, Biology, and Health Sciences awards scholarships to students who demonstrate academic excellence, dedication, commitment to their goals and discipline. Regardless of the concentration area, the Bachelor of Science in Biology prepares students for graduate studies. Cameron's program also prepares students interested in entering the allied health fields such as physical and occupational therapy, physician assistant, radiology, etc.

DEPARTMENTAL ACTIVITIES

Biology students often participate in research projects, attend professional meetings, and take field trips with faculty members. The Biology Club is a forum that offers students interested in biological sciences a chance for camaraderie, to exchange ideas, promote science, and work together to raise the community awareness on various biology-related issues. Also, accomplished biology students are introduced into the Psi Eta chapter of the Beta Beta Beta (TriBeta) National Biology Honor Society, founded in 1922 at Oklahoma City University. The TriBeta Society promotes scholarship in biological sciences, biological knowledge, and research.

CONCENTRATIONS

1

Cell and Molecular Biology

The concentration in cell and molecular biology provides a solid foundation in the exciting field of modern biology and supports careers in the biological and biomedical sciences. This concentration is especially recommended to students who plan to apply to a professional program upon completion of their bachelor's degree to become physicians, dentists, optometrists, and pharmacists, as well as to students who are interested in careers in research and other areas in the biomedical sciences.

2

Organismal Biology

Students who declare an organismal biology concentration will examine the ecology, evolution, structure, and function of life at the level of the organism. Course work in this concentration combines modern laboratory investigations with field-oriented studies, and prepares students for careers in ecology, natural history, wildlife, and conservation. This is also the most flexible concentration in the biology major and can readily be combined with a second major or a minor in another program area.

3

Medical Laboratory Science

This concentration prepares students for careers as medical technologists (also known as medical laboratory scientists), who work in clinical and hospital laboratories across the United States. In this program students complete three years (94 hours of specified coursework and then apply to an accredited school of medical technology. If admitted an additional 30 hours of classroom and clinical coursework must be completed before the degree is awarded. Graduates of the program are then eligible to take a national certification exam. The job outlook in this field is excellent, with a projected 16% growth in demand over the 2014-2024 period and a median annual salary in 2015 of \$60,520 (Source: U.S. Bureau of Labor Statistics).

SPECIAL OPPORTUNITIES FOR PRE-MEDICAL BIOLOGY MAJORS

Several career paths around the world are open to biologists, including research, health care, environmental management and conservation (solving environmental problems, preserving the natural world for generations to come), education (college and universities, primary and secondary schools, science museums, zoos, aquariums, parks, and nature centers)

MEDICAL SCHOOL GUARANTEED INTERVIEW PROGRAM

By agreement with the Oklahoma State University College of Osteopathic Medicine (OSU-COM) high-achieving undergraduates who are residents of the State of Oklahoma, have maintained a minimum 3.5 cumulative GPA (3.5 in all science coursework), scored at least 498 on the Medical College Admission Test, and met other criteria will be invited to an interview with the OSU COM. For more information contact the Department of Agriculture, Biology and Health Sciences

MEDICAL SCHOOL EARLY ADMISSION PROGRAM

By agreement with the Oklahoma State University College of Osteopathic Medicine (OSU-COM) high-achieving undergraduates who are residents of the State of Oklahoma may complete specified coursework and maintain a minimum 3.6 cumulative GPA (3.5 science GPA) and meet other requirement may apply as early as their sophomore year to the OSU-COM early admission program. If admitted, students must successfully complete their third year of studies in the Cell and Molecular Biology concentration at Cameron University and will then immediately begin medical studies at OSU-COM. After successfully completing their first year of medical school students will be awarded their Bachelor of Science degree in Biology (Cell and Molecular Concentration) from Cameron University. For more information contact the Department of Agriculture, Biology and Health Sciences.

FOR MORE INFORMATION CONTACT:

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— or —

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