

DEPARTMENT OF BIOLOGY

Bachelor of Science in Biology

Student Learning Objectives

Biology graduates will

1. have a basic knowledge of the major concepts of Biology and of the concepts specific to the degree program chosen;
2. be able to communicate effectively, integrate basic knowledge with new findings, and think critically; and
3. have developed skills needed to perform experimentation and data gathering.

Bachelor of Science in Biology Education and Science Education

Student Learning Objectives

Biology Education or *Science Education* graduates will have

1. an understanding of the unifying concepts of science and how this knowledge will enable students to deal with personal and social problems intelligently;
2. an understanding of the nature of science and the historical development of scientific thought;
3. an understanding of the interrelationships between science, mathematics, technology, and society;
4. an understanding of how science contributes to the personal development of diverse individuals;
5. an understanding of developmentally appropriate instructional methods and curriculum of Biology and other sciences, to include inquiry-based instruction, assessment techniques, and the integration of technology;
6. the communication skills necessary for effective teaching, as well as, the skills necessary for effective classroom management;
7. an understanding of the role of research in biology and science education;
8. an awareness of the importance of incorporating best practices into science classrooms through lifelong professional development;
9. an awareness of the safety precautions specific to classroom, stockroom, laboratories, and other areas used for science instruction; and
10. the ability to collaborate with colleagues, families, and community members to improve science instruction for all students.

Bachelor of Science in Environmental Science

Student Learning Objectives

Environmental Science graduates will

1. have a basic knowledge of the major concepts of environmental science; and

2. be able to communicate effectively, integrate basic knowledge with new findings, and think critically.
3. have developed skills needed to perform experimentation and data gathering associated with the Environmental Science degree program.