Gain knowledge and understanding of a wide range of disciplines within the biological sciences.

A Bachelor of Science (B.S.) in biology from Creighton University will prepare you to follow your passions wherever they may lead—medicine, biotechnology, research, education, environmental fields and so much more.

The faculty of Creighton University’s Department of Biology are committed to providing an excellent undergraduate biology program encompassing both breadth and depth of biological understanding. We offer foundational and advanced courses across major subdisciplines of biology, with lecture and lab experiences grounded in first principles. Our active research programs and commitment to mentoring students contribute to a rich environment for developing a sound foundation in biology and the scientific method.

At Creighton, you’ll not only gain the analytical, investigative, and communications skills needed in the field of biology, but the ability to effectively respond to moral and ethical issues with biological dimensions.

WHAT YOU’LL LEARN

• Foundational concepts in evolutionary, cellular, organismal, and ecological levels of biology
• Integration of fundamental concepts from chemistry, physics, and math into your understanding of biology
• In-depth knowledge of sub-fields of personal interest
• Contemporary approaches to library-and research-based scientific inquiry

EXPERIENTIAL LEARNING OPPORTUNITIES

Biology majors at Creighton have the opportunity to become involved with research work sponsored by willing science faculty throughout the University. Students with sufficient motivation, time and effort can conduct independent research projects that are presented at scientific meetings and may even be published.

Research may be done within the biology department, as well as in Creighton’s medical and dental schools, the Boys Town National Research Hospital, the University of Nebraska Medical Center, the Henry Doorly Zoo, just to name a few.

Students who find they lack sufficient time to conduct research during the academic year, or who are looking for additional research opportunities, should consider participation in a summer research program. Summer undergraduate research fellowships, commonly known by the acronyms “SURFs” or “SURPs” (“P” for “Program”), offer students the chance to participate in research in a way that may not be possible at Creighton during the regular year. Many of these programs are sponsored by top research institutions, with laboratories involved in leading-edge science and faculty who have fostered a large number of students. SURPs are certainly not guaranteed to result in a publication, but many do.

CAREER OUTLOOK

Creighton alumni who hold bachelor’s degrees in biology include physicians, dentists, deans of medical and graduate schools, veterinarians, research scientists, environmental analysts, teachers, nature center experts, religious leaders, presidents of major companies, and many other professionals.

CAREER OUTCOMES

Employment Opportunities
Many of our graduates are employed. Graduates who choose not to pursue higher degrees are employed in a wide variety of fields by research organizations, biotechnology companies, engineering firms, city and state governments, and non-profit organizations. Employers of recent graduates include:

• Boys Town National Research Hospital
• HDR, Inc.
• DuPont Pioneer
• All Care Health Center, Council Bluffs
• City of Omaha
• Omaha Henry Doorly Zoo

Graduate Studies
Many of our students have gone on to prestigious graduate programs and schools, such as:

• Emory University
• Harvard University
• Johns Hopkins University
• Mayo Clinic
• University of California
• University of Chicago
• University of Tennessee
• University of Wisconsin
• Washington University
BIOLOGY TRACKS

A Biology major and minor are available. For more details on the full curriculum, visit:
catalog.creighton.edu/undergraduate/arts-sciences/biology/#degreestext

BIOLOGY COURSES

Requisite Courses:
BIO 201  General Biology: Organismal and Population 3
BIO 206  General Biology: Organismal and Population Laboratory 1
BIO 202  General Biology: Cellular and Molecular 3
BIO 205  General Biology: Cellular and Molecular Laboratory 1
CHM 203  General Chemistry I 3
CHM 204  General Chemistry I Laboratory 1
CHM 205  General Chemistry II 3
CHM 206  General Chemistry II Laboratory 1
CHM 321  Organic Chemistry I 3
CHM 322  Organic Chemistry I Laboratory 1
CHM 323  Organic Chemistry II 3
CHM 324  Organic Chemistry II Laboratory 1
PHY 201/211  General Physics I 3
PHY 205  General Physics Laboratory I 1
PHY 202/212  General Physics II 3
PHY 206  General Physics Laboratory II 1

Twenty-five additional upper-division BIO credits from the list below. 25
This upper-division coursework must include the following:

Seven lecture courses:
Lecture course electives. Seven required; see full curriculum for details
BIO 310  Biostatistics
BIO 317  Genetics
BIO 335  Zoology
BIO 341  General Botany
BIO 362  Cell Structure and Function
BIO 371  Animal Behavior
Complete option listing on catalog entry

Four laboratory courses:
BIO 318  Genetics Laboratory
BIO 372  Animal Behavior Laboratory
BIO 419  Molecular Genetics Laboratory
BIO 450  Animal Physiology Laboratory
BIO 486  Freshwater Ecology Laboratory
Complete option listing on catalog entry

Total Credits 57