BIOLOGICAL SCIENCES

College of Natural Science and Mathematics
Department of Biology and Wildlife
907-474-7671
http://www.bw.uaf.edu

B.A., B.S. Degrees

Minimum Requirements for Degrees: 120 credits

Biological sciences is an appropriate major for students interested in
the science of life. Programs in these fields provide a broad education
and a foundation in the principles of biology. Graduates are employed
in environmental science, health services, biology education, and as
field and laboratory technicians. Graduates also pursue advanced M.S.,
pharmacology, nursing, MD or Ph.D. degrees. Biology faculty advisors can
help students choose courses that will best fit their goals.

Biological sciences majors may pursue either a B.A. or B.S. degree.
Because biology is an interdisciplinary science, both programs include
course work in the physical sciences and mathematics. The B.A. requires
fewer credits in natural science and more credits in the social sciences
and humanities than the B.S. degree, which focuses more intensively
on biological science. The B.S. degree without a concentration provides
the most comprehensive education in biology. The B.S. degree with a
concentration permits some degree of specialization in one of three
sub-disciplines: cell and molecular biology, physiology, or ecology and
evolutionary biology.

Incoming students who do not meet the prerequisites for BIOL F115X
and those who did not complete a biology course in high school are
couraged to take a biology course for non-majors such as BIOL F103X
or BIOL F104X and CHEM F105X and CHEM F106X during their first year,
and to begin the BIOL F115X and BIOL F116X series in their sophomore
year. Students unprepared for CHEM F105X are encouraged to take
CHEM F103X beforehand.

Students majoring in the biological sciences must complete a capstone
project during their junior or senior year. The goal of the capstone
experience is to integrate skills and information students have learned
in previous courses by conducting a mentored research project and
communicating the results. Students will signal their intent to complete
the capstone requirement by registering for BIOL F400. The capstone
research project itself may be completed within one of the designated
courses listed below, or by working individually with a faculty mentor. If
the capstone project is conducted within a designated course, a passing
grade on the project itself is required to satisfy the capstone requirement
regardless of the course grade. Biology course credit for mentored
research is available as BIOL F490, BIOL F397, or BIOL F497. More
information about the capstone requirement is posted on the Biology
and Wildlife website (http://www.bw.uaf.edu). Students are strongly
encouraged to speak to a biology advisor well before their senior year
about how they plan to satisfy the capstone requirement.

Degrees

• B.A., Biological Sciences (http://catalog.uaf.edu/bachelors/
bachelors-degree-programs/biological-sciences/ba)
• B.S., Biological Sciences (with concentration) (http://catalog.uaf.edu/
bachelors/bachelors-degree-programs/biological-sciences/bs-concentration)
• Minor, Biological Sciences (http://catalog.uaf.edu/bachelors/
bachelors-degree-programs/biological-sciences/minor)