

Wildlife Biology

Degree Type
Minor

Minor Requirements

The wildlife biology allows students wanting the breadth of the biology or environmental science major to also focus in areas of wildlife biology and management. The program offers directed study in wildlife management and techniques, botany, zoology, and policy and ethics. This program along with the biology or environmental science major and the general education requirements supports students wishing to pursue careers with state and federal agencies, graduate degree programs in wildlife biology, as well as those who wish to pursue Wildlife Biologist Certification through the Wildlife Society.

The requirements are as follows:

Required Courses:

Course Code	Title	Credits
ENVR-334	Wildlife Management	3
BIOL-434W / ENVR-434W	Wildlife Ecology and Techniques	4

Conservation & Policy:

Choose one course:

Course Code	Title	Credits
ENVR-305	Natural Resource & Environmental Law	3
BIOL-402 / ENVR-402	Conservation Biology	4

Plant Biology:

Choose one course:

Course Code	Title	Credits
BIOL-335	Field Botany	3
BIOL-340	Botany	4
BIOL-420	Plant Taxonomy	4

Animal Biology:

Choose one course:

Course Code	Title	Credits
BIOL-316	Ornithology: the Biology of Birds	4
BIOL-321	Herpetology	4
BIOL-322	Mammalogy	4
BIOL-433 / ENVR-433	Biology & Management of Fishes	4

Quant. & Comp. Biology:

Chose one course:

Course Code	Title	Credits
DSA-225	Statistical Methods With R	3
BIOL-330	Biostatistics	3
ENVR-330X	Introduction to Geographical Information Systems	3

Elective:

Choose one course:

Course Code	Title	Credits
BIOL-309	Genetics	4
BIOL-311 / ENVR-311	Animal Physiology	4
BIOL-325	Molecular Biology of the Cell	4
BIOL-401 / ENVR-401	Environmental Microbiology	4
BIOL-440	Animal Behavior	4
BIOL-480X	Internship	3
ENVR-480X	Internship	3
BIOL-490	Independent Study	3
ENVR-490	Independent Study	3
BIOL-491	Research	3
ENVR-491	Research	3
BIOL-499	Honors Project	3
ENVR-499	Honors Project	3
PWR-312W	Technical Writing	3

Or any additional course from the lists above that have NOT been taken already.

NOTE: Only two courses may overlap with a major or any other minor.

Total Credits

23-26

Clinical Laboratory Sciences

This program allows qualified students to seek early admission to the Sentara RMH School of Medical Laboratory Science or the Augusta Health School of Clinical Laboratory Science. If granted admission, it is the responsibility of the student to complete the following prior to entering this program:

- The courses required for the Biology major with a minimum GPA of 2.0, including prerequisite courses for the Laboratory Science Program
- The general education program requirements, including FILA-450
- A minimum of 91 credit hours towards graduation, with a minimum cumulative GPA of 2.0

Upon completing this 12-month professional program with minimum grades of C in each course, the College will transfer 32 semester hours of credit to the student's record to complete requirements for earning a bachelor's degree from the College.

The Smithsonian-Mason Semester for Conservation Studies

Bridgewater College is a member institution of the Smithsonian-Mason Semester which is run by George Mason University out of the Smithsonian Conservation Biology Institute (SCBI) in Front Royal, Va. In this program, students live on the SCBI campus (a world-class conservation research facility) and learn about the theory and application of conservation

biology (including the social, political and economic dimensions). Students participate in one of two 16 credit hour programs: Wildlife Ecology and Conservation or Conservation, Biodiversity and Society (for any student interested in conservation). Interested students should visit the program's website (smconservation.gmu.edu/programs/undergraduate) and contact the Department of Biology and Environmental Science.

Both programs are appropriate for juniors and seniors. There are no specific prerequisite classes for Conservation, Biodiversity and Society. That program is open to all majors. The Wildlife Ecology and Conservation semester has Ecology (BIOL-350) as a prerequisite.

Dual Degree Programs

The department has pursued dual degree programs with other institutions. These include veterinary medicine with Virginia Tech and clinical laboratory sciences with Sentara RMH and Augusta Health.

NOTE: Participation in the dual degree program does NOT guarantee acceptance into or graduation from Virginia Tech's veterinary program.

Qualified students may apply for early admission to the Virginia-Maryland College of Veterinary Medicine at Virginia Tech or another accredited veterinary program. If accepted, the student may earn the bachelor's degree in biology from Bridgewater College by fulfilling the following requirements:

- Complete all courses required for the biology major with a cumulative major GPA of at least 2.0;
- Complete all courses required for the general education program, including FILA 450, with an overall GPA of at least 2.0;
- Complete any remaining credits required for graduation from Bridgewater College with a grade of "C" or better while enrolled in an accredited veterinary medicine program.