

B.S., WILDLIFE BIOLOGY AND CONSERVATION

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Wildlife Biology and Conservation B.S.: 120 credits

Code	Title	Credits
General University Requirements		
Complete the general university requirements. (https://catalog.uaf.edu/archives/2020-2021/bachelors/)		
General Education Requirements		
Complete the general education requirements. (https://catalog.uaf.edu/archives/2020-2021/bachelors/general-education-requirements/)		
As part of the general education requirements, complete:		
CHEM F105X	General Chemistry I	
CHEM F106X	General Chemistry II	
COJO F141X	Fundamentals of Oral Communication: Public Context	
MATH F251X	Calculus I	
	or MATH F230X Essential Calculus with Applications	
B.S. Degree Requirements		
Complete the B.S. degree requirements. (https://catalog.uaf.edu/archives/2020-2021/bachelors/summary-of-bachelors-degree-reqs/#bachelorofsciencetext)		
As part of the B.S. degree requirements, complete:		
BIOL F115X	Fundamentals of Biology I	
BIOL F116X	Fundamentals of Biology II	
STAT F200X	Elementary Statistics	
	or STAT F300 Statistics	
Wildlife Biology and Conservation Program Requirements		
BIOL F239	Introduction to Plant Biology	4
BIOL F260	Principles of Genetics	4
BIOL F310	Animal Physiology	4
BIOL F331	Systematic Botany	3
	or BIOL F488 Arctic Vegetation Ecology: Geobotany	
BIOL F371	Principles of Ecology	4
BIOL F471	Population Ecology	3
ENGL F314	Technical Writing	3
	or ENGL F414 Research Writing	
PHYS F123X	College Physics I	4
	or GEOS F101X The Dynamic Earth	
	or NRM F380 Soils and the Environment	
STAT F401	Regression and Analysis of Variance	4
WLF F101	Survey of Wildlife Science	2
WLF F301	Design of Wildlife Studies ¹	3
WLF F322	Principles and Techniques of Wildlife Management	3

Complete one of the following: 3

WLF F433	Conservation Genetics	
WLF F469	Landscape Ecology and Wildlife Habitat	

Complete three from the following: 9

BIOL F425	Mammalogy	
BIOL F426	Ornithology	
WLF F421	Ecology and Management of Large Mammals	
WLF F425	Ecology and Management of Birds	

Complete two from the following: 6

ECON F235X	Introduction to Natural Resource Economics	
HIST F411	Environmental History	
NRM F204	Public Lands Law and Policy	
NRM F403	Environmental Decision-Making	
NRM F407	Environmental Law	
PS F447	U.S. Environmental Politics	

Complete at least two additional courses at the F300 level or higher (3 or 4 credits) in biology, wildlife biology, fisheries or natural resources management 6-8

Capstone

Satisfactory completion of a capstone research project, which can be done by completing the course project for WLF F301 with either junior or senior standing.

¹ Fulfills the baccalaureate capstone requirement (junior or senior standing required).

Note: B.S. degree candidates are strongly urged to obtain work experience in wildlife-related positions with public resource agencies or private firms. Faculty members can help students contact potential employers.

Requirements for biology teachers (grades 7-12)

Note: We strongly recommend that prospective secondary science teachers seek advising from the Alaska College of Education early in their undergraduate degree program so they can be appropriately advised of the State of Alaska requirements for teacher licensure. Students will apply for admission to the Alaska College of Education's postbaccalaureate teacher preparation program, a one-year intensive program, during their senior year. The above requirements apply to all candidates who apply to the Alaska College of Education for licensure in biology.

Code	Title	Credits
Complete all the requirements of the wildlife biology B.S. degree.		
All prospective biology teachers must complete the following:		
BIOL F342	Microbiology	4
BIOL F481	Principles of Evolution	4
CHEM F321	Organic Chemistry I	8
	and CHEM F325 and Organic Chemistry II	
All prospective science teachers must complete the following:		
PHIL F481	Philosophy of Science	3