

A minimum grade of C (2.000) is required in all biological, mathematical/ statistical, physical science, fish, wildlife, and conservation biology, and natural resource courses used to meet graduation requirements for the Fish, Wildlife, and Conservation Biology major. The minimum applies to courses taken as substitutions for meeting these requirements.

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
<i>Select one set of courses from the following:</i>			
BZ 110	Principles of Animal Biology	3	3A
BZ 111 ^P	Animal Biology Laboratory	1	3A
BZ 120	Principles of Plant Biology	4	3A
OR			
LIFE 102 ^P	Attributes of Living Systems ¹	4	3A
LIFE 103 ^P	Biology of Organisms-Animals and Plants ¹	4	
CO 150 ^P	College Composition	3	1A
<i>Select one set of chemistry and physics courses from the following:</i>			
CHEM 107 ^P	Fundamentals of Chemistry	4	3A
CHEM 108 ^P	Fundamentals of Chemistry Laboratory	1	3A
PH 121 ^P	General Physics I	5	3A
PH 122 ^P	General Physics II	5	3A
OR			
CHEM 111 ^P	General Chemistry I	4	3A
CHEM 112 ^P	General Chemistry Laboratory I	1	3A
CHEM 113 ^P	General Chemistry II	3	
CHEM 114 ^P	General Chemistry Laboratory II	1	
PH 110	Descriptive Physics	3	3A
PH 111 ^P	Descriptive Physics Laboratory	1	3A
FW 104	Wildlife Ecology and Conservation	3	3A
	Arts and Humanities ²	3	3B
	TOTAL	30-32	
SOPHOMORE			
BZ 223 ^P	Plant Identification	3	
CHEM 245 ^P	Fundamentals of Organic Chemistry	4	
CHEM 246 ^P	Fundamentals of Organic Chemistry Laboratory	1	
FW 260 ^P	Principles of Wildlife Management	3	
HONR 499 ^P	Senior Honors Thesis ³	3	
OR			
SPCM 200	Public Speaking ³	3	
LIFE 320 ^P	Ecology	3	
MATH 155 ^P	Calculus for Biological Scientists I	4	1B
OR			
MATH 160 ^P	Calculus for Physical Scientists I	4	1B
STAT 301 ^P	Introduction to Statistical Methods	3	
OR			
STAT 307 ^P	Introduction to Biostatistics	3	
	Arts and Humanities ²	3	3B
	Social and Behavioral Sciences ⁵	3	3C
	TOTAL	30	
SUMMER			
NR 220 ^P	Natural Resources Ecology and Measurements	5	
	TOTAL	5	

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
JUNIOR			
<i>Select four credits from the following:</i>			
BSPM 302	Applied and General Entomology	2	
BSPM 303A ^P	Entomology Laboratory--General	2	
OR			
BSPM 445 ^P	Aquatic Insects	4	
OR			
BZ 212 ^P	Animal Biology-Invertebrates	4	
<i>Select one course or course pair not taken elsewhere from the following:⁶</i>			
BZ 214 ^P	Animal Biology—Vertebrates	4	
BZ 329 ^P	Herpetology	3	
BZ 330 ^P	Mammalogy	3	
BZ 335 ^P	Ornithology	3	
FW 300 ^P	Ichthyology	2	
AND			
FW 301 ^P	Ichthyology Laboratory	1	
<i>Select one course from the following:</i>			
BZ 220 ^P	Introduction to Evolution	3	
BZ 346 ^P	Population and Evolutionary Genetics ⁴	3	
BZ 350 ^P	Molecular and General Genetics	4	
SOCR 330 ^P	Principles of Genetics	3	
BZ 330 ^P	Mammalogy	3	
OR			
BZ 335 ^P	Ornithology	3	
<i>Select one course from the following:</i>			
CO 300 ^P	Writing Arguments	3	2
CO 301A-D ^P	Writing in the Disciplines	3	2
JTC 300 ^P	Professional and Technical Communication	3	2
FW 370 ^P	Design of Fish and Wildlife Projects	3	4A, 4B
NR 319 ^P	Geospatial Applications in Natural Resources	4	
OR			
NR 322	Introduction to Geographic Information Systems	4	
NR 320	Natural Resources History and Policy	3	3D
	Global and Cultural Awareness ⁷	3	3E
	TOTAL		
		29-31	
SENIOR			
<i>Select one Biology/Botany Course not taken elsewhere from the following:</i>			
<i>Biology Options</i>			
ANEQ 320 ^P	Principles of Animal Nutrition ⁴	4	
BZ 220 ^P	Introduction to Evolution	3	
BZ 300 ^P	Animal Behavior	3	
BZ 310 ^P	Cell Biology	4	
BZ 346 ^P	Population and Evolutionary Genetics	3	
BZ 401 ^P	Comparative Animal Physiology	3	
BZ 415 ^P	Marine Biology ⁴	4	
BZ 471 ^P	Stream Biology and Ecology	3	
BZ 474 ^P	Limnology	3	
FW 400 ^P	Conservation of Fish in Aquatic Ecosystems	3	
MIP 300 ^P	General Microbiology	3	
MIP 315	Human and Animal Disease	3	
NR 367 ^P	Concepts in Vertebrate Nutrition	3	
NR 370 ^P	Coastal Environmental Ecology	3	
<i>Botany Options</i>			
BZ 302 ^P	Poisonous Plants	3	
BZ 321 ^P	Aquatic Vascular Plants	3	

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
BZ 325 ^P	Plant Systematics	4	
BZ 331 ^P	Developmental Plant Anatomy	4	
BZ 332 ^P	Introductory Phycology	4	
BZ 333 ^P	Introductory Mycology	4	
BZ 440 ^P	Plant Physiology	3	
BZ 450 ^P	Plant Ecology	4	
F 310 ^{P/}	Forest and Rangeland Ecogeography	3	
RS 310 ^P			
F 311 ^P	Forest Ecology	3	
<i>Select one Ecosystem Course not taken elsewhere from the following:</i>			
F 310 ^{P/}	Forest and Rangeland Ecogeography	3	
RS 310 ^P			
F 311 ^P	Forest Ecology	3	
F 324 ^P	Fire Effects and Adaptations	3	
F 424 ^P	Wildland Fire Behavior and Management	3	
FW 477 ^P	Wildlife Habitat Use and Management	3	
GR 304 ^{P/}	Sustainable Watersheds	3	
WR 304 ^P			
NR 300 ^P	Biological Diversity	3	
NR 326 ^P	Forest Vegetation Management	3	
NR 370 ^P	Coastal Environmental Ecology	3	
NR 440 ^P	Applications in Conservation Planning ⁴	3	
NRRT 439 ^P	Open Space and Natural Area Management ⁴	3	
RS 478 ^P	Ecological Restoration ⁴	3	
WR 416 ^P	Land Use Hydrology ⁴	3	
WR 418 ^P	Land Use and Water Quality	3	
<i>Select one Wildlife Course not taken elsewhere from the following:</i>			
FW 375 ^P	Field Wildlife Studies	3	
FW 455 ^P	Principles of Conservation Biology	3	
FW 465 ^P	Managing Human-Wildlife Conflicts	3	
FW 467 ^P	Wildlife Disease Ecology	3	
FW 469 ^P	Conservation and Management of Large Mammals	3	
FW 471 ^P	Wildlife Data Collection and Analysis	4	
FW 472 ^P	Issues in Animal Conservation and Management	3	
FW 475 ^P	Conservation Decision Making	3	
FW 477 ^P	Wildlife Habitat Use and Management	3	
FW 544 ^P	Ecotoxicology	3	
FW 573 ^P	Travel Abroad: Wildlife Ecology and Conservation	3	
FW ***	Travel Abroad Upper-Division Course ⁸	3	
FW 471 ^P	Wildlife Data Collection and Analysis	4	4C
<i>Select one Human Dimensions Course not taken elsewhere from the following:</i>			
HIST 355 ^P	American Environmental History ⁴	3	
NR 400 ^P	Public Relations in Natural Resources	3	
NRRT 330	Social Aspects of Natural Resource Management	3	
NRRT 400 ^P	Environmental Governance ⁴	3	
NRRT 440 ^P	Applications in Environmental Communication ⁴	3	
PHIL 320	Ethics of Sustainability	3	
PHIL 345 ^P	Environmental Ethics	3	
POLS 361 ^P	U.S. Environmental Politics and Policy	3	
SOC 320 ^P	Population-Natural Resources and Environment	3	
SOC 322 ^P	Introduction to Environmental Justice	3	
SOC 460 ^P	Environment and Society	3	
SOC 461 ^P	Water, Society and Environment	3	

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
	Technical Electives ⁹	6	
	Elective ¹⁰	0-3	
	TOTAL	<u>22-27</u>	
PROGRAM TOTAL = 120-121 credits			

⁹ This course has at least one prerequisite. Check the Courses of Instruction section of the catalog or <http://catalog.colostate.edu/> to see the course prerequisites.¹ Students taking this biology selection should choose a botany-related course in the department electives options to meet botany/plant course requirements for certain federal positions related to wildlife, fisheries and/or conservation biology.

² Select from the list of courses in category 3B of the All-University Core Curriculum (AUCC). Only 3 of the 6 credits required for Arts and Humanities may come from intermediate (L*** 200 and L*** 201) foreign language courses.

³ Students in the Honors Track 1 program must take HONR 499.

⁴ Students will need to obtain a registration override from the appropriate department to take this course.

⁵ Select from the list of courses in category 3C of the AUCC in consultation with advisor.

⁶ FW 300 and FW 301 together count as one selection in this choice.

⁷ Select from the list of courses in category 3E of the AUCC.

⁸ Restricted to FW subject code, department travel abroad courses, taught by FWCB faculty. No transfer or substitute courses will be accepted.

⁹ Technical Electives are courses intended to expand a student's depth and breadth in wildlife biology and include any 300- or 400-level regular course with a BC, BMS, BSPM, BZ, CHEM, ESS, F, FW, GES, MATH, MIP, NR, NRRT, PH, RS, SOCR, STAT or WR subject code (excluding courses ending in -80 to -99); SOCR 240; other course with prior approval by department and advisor. Courses may not double-count as Technical Electives and for other requirements in the major.

¹⁰ Select enough elective credits to bring the program total to a minimum of 120-121 credits, of which at least 42 must be upper-division (300- to 400-level).