

Wildlife Option
Coursework Requirements - 2009-2011 Catalog
42 Total Credits

Required Courses

A ECL 371
A ECL 451
BIOL 313 or GEN 320
BIOL 366
MATH 160, 165, or 181

17 credits

Ecological Methods and Analyses 3 cr
Wildlife Management 3 cr
Principles of Genetics 3 cr
Plant Systematics 4 cr
Calculus Elective 4 cr

Restricted Electives

Zoology

A ECL 454X
A ECL 515
A ECL 551
ANTHR 438
BIOL 315
BIOL 336
BIOL 354/354L
BIOL 471
EEOB 507
ENT 370
NREM 475X

Wildlife Biology

A ECL 457
A ECL 458
A ECL 459

Policy, Administration and Law

A ECL 455
C R P 491
ENV S 293
ENV S 482
FOR 453
NREM 385/585
NREM 450X
NREM 460
NREM 532

Botany

AGRON 317
BIOL 355
BIOL 454
BIOL 456
BIOL 474
EEOB 564
FOR 356

Additional Restricted Electives:

A ECL/ENT 425
AGRON 154
AGRON 260
AGRON 334
BIOL 381
BIOL 472
ECON 380
ENSCI 408
FOR 302
FOR 454
NREM 301
NREM 345
NREM 390
NREM 407/ENV S 407
NREM 446
NREM 465
NREM 471
TSM 324
TSM 424

A minimum of 25 credits

Select 3 credits from list below:

Wildlife Diseases 3 cr
Ecology of Freshwater Invertebrates 3 cr
Wildlife Behavioral Ecology 3 cr
Primate Evolutionary Ecology and Behavior 3 cr
Biological Evolution 3 cr
Ecological and Evolutionary Animal Physiology 3 cr
Animal Behavior/Lab in Animal Behavior 3-4 cr
Introductory Conservation Biology 3 cr
Advanced Animal Behavior 3 cr
Insect Biology 3 cr
Conservation Genetics 3 cr

Select 6 credits from list below:

Herpetology 3 cr
Ornithology 3 cr
Mammalogy 3 cr

Select 6 credits from list below:

International Wildlife Issues 3 cr
Environmental Law & Planning 3 cr
Environmental Planning 3 cr
Environmental Politics & Policies 3 cr
Forest Resource Policy and Administration 3 cr
Natural Resource Policy 3 cr
History of Wildlife Conservation 3 cr
Controversies in Renewable Resource Management 3 cr
Human Dimensions of Natural Resource Management 3 cr

Select 5 credits from list below:

Principles of Weed Science 3 cr
Plants and People 3 cr
Plant Anatomy 4 cr
Principles of Mycology 3 cr
Plant Ecology 3 cr
Wetland Ecology 3 cr
Dendrology 4 cr

If needed, select additional credits from list below:

Aquatic Insects 3 cr
Fundamentals of Soil Science 3 cr
Soils and Environmental Quality 3 cr
Forage Crop Management 3 cr
Environmental Systems 4 cr
Community Ecology 3 cr
Environmental and Resource Economics 3 cr
GIS & Natural Resources Management 3 cr
Silviculture 3 cr
Forest Practicum 3 cr
Forest Ecology & Soils 4 cr
Nat. Res. Photogrammetry & GIS 3 cr
Fire Ecology & Management 3 cr
Watershed Management 4 cr
Integrating GPS & GIS for Nat. Res. Management 3 cr
Landscape Change & Conservation 3 cr
Agroforestry Systems 3 cr
Soil & Water Conservation Management 3 cr
Impacts of Agriculture on Water Quality 2 cr

Suggested Sequence of Courses

Wildlife Option*

Freshman Year

BIOL 211	Principles of Biology	3	BIOL 212	Principles of Biology	3
BIOL 211L	Prin. of Biology Lab.	1	BIOL 212L	Prin. of Biology Lab.	1
NREM 110	Orientation in NREM	R	NREM 120	Intro. Renew. Resources	3
Ethics/Humanities/Social Science Elective		3	ENGL 150	Critical Thinking & Comm	3
MATH 140	College Algebra**	3	MATH 142	Trig. & Analytic Geom.**	3
CHEM 163	General Chemistry	4	Stat 101/104	Statistics	3-4
CHEM 163L	General Chemistry Lab.	<u>1</u>	LIB 160	Library Instruction	<u>.5</u>
		<u>15</u>			<u>17.5-16.5</u>

Sophomore Year

A ECL 365	Vertebrate Biology	4	CHEM 231	Elem. Organic Chem.	3
NREM 211	Careers in Nat. Res	1	CHEM 231L	Lab. Organic Chem.	1
A ECL 312	Ecology	4	Sp Cm 212	Fund. of Public Speaking	3
MATH	Calculus Elective	4	Free Elective/restricted elective		6
ENGL 250	W/O/V/E Communications	<u>3</u>	Ethics/Humanities/Social Science Elective		<u>3</u>
		<u>16</u>			<u>16</u>

Junior Year***

PHYS 106	Physics Common Exper.	4	BIOL 313/GEN 320		3
A ECL 371	Ecological Methods	3	Communications Elective		3
Restricted Electives		6	Restricted Elective		3
Ethics/Humanities/Social Science Elective		<u>3</u>	Ethics/Humanities/Social Science Elective		3
		<u>16</u>	BIOL 366	Plant Systematics	<u>4</u>
					<u>16</u>

Senior Year***

A ECL 451	Wildlife Management	3	Restricted Electives		9
Restricted Elective		6	Communications Elective		3
Ethics/Humanities/Social Science Elective		3	Free Electives		<u>3</u>
Free Elective(s)		<u>6</u>			<u>15</u>
		<u>18</u>			

* To complete degree program in four years students must maintain an average of 16 credits per semester.

** Initial math course is determined on the basis of high school math and placement test scores. A non-credit math course (Math 10) may be required at additional costs.

*** In scheduling coursework, students should pay particular attention to courses with limited offerings (e.g., offered only on alternate years) and to course sequences (i.e., where a course serves as a prerequisite for another course). It is critical that students take A ECL 371 fall semester of the junior year and A ECL 451 fall semester of the senior year.