

Interpretation of Natural Resources Option – Animal Ecology
Coursework Requirements - 2009-2011 Catalog
33 Total Credits

Required Courses

	17 credits	
A ECL 366	Natural History of Iowa Vertebrates	3 cr
BIOL 366	Plant Systematics	4 cr
ENT 370	Insect Biology	3 cr
NREM 303	Internship	1 cr
NREM 330	Interpretation of Natural Resources	3 cr
NREM 430	Media Techniques in Interpretation	3 cr

Restricted Electives

A minimum of 16 credits

Earth Sciences

	Select one course from list:	
AGRON 154	Fundamentals of Soil Science	3 cr
AGRON 206	Introduction to Meteorology	3 cr
ASTRO 120	The Sky and the Solar System	3 cr
GEOL 100	The Earth	3-4 cr
GEOL 101	Environmental Geology	3 cr
GEOL 108	Introduction to Oceanography	3 cr

Botany

	Select one course from list:	
BIOL 474	Plant Ecology	3 cr
FOR 356	Dendrology	4 cr

Additional Restricted Electives:

If needed, select additional credits from list below:

A ECL 301I	Iowa Natural History (Lakeside Lab)	4 cr
A ECL 321	Fish Biology	3 cr
A ECL 371	Ecological Methods	3 cr
A ECL 451	Wildlife Management	3 cr
A ECL 455	International Wildlife Issues	3 cr
A ECL 486/486L	Aquatic Ecology and Lab	3-4 cr
A ECL 515	Ecology of Freshwater Invertebrates	3 cr
A ECL 516	Avian Ecology	3 cr
A ECL 520	Fisheries Science	3 cr
A ECL 535I	Restoration Ecology (Lakeside Lab)	4 cr
BIOL 354/354L	Animal Behavior/Lab in Animal Behavior	3-4 cr
BIOL 355	Plants and People	3 cr
BIOL 456	Principles of Mycology	3 cr
EEOB 564	Wetland Ecology	3 cr
FOR 453	Forest Resource Policy and Administration	3 cr
IA LL 422I	Prairie Ecology	4 cr
NREM 305/505	Seminar	1-3 cr
NREM 385/585	Natural Resource Policy	3 cr
NREM 460	Controversies in Renewable Resource Management	3 cr
NREM 465	Landscape Change & Conservation	3 cr
NREM 496	Travel Course	1-3 cr
NREM 532	Human Dimensions of Natural Resource Management	3 cr

Revised 05/09

Suggested Sequence of Courses

Interpretation of Natural Resources Option – Animal Ecology*

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>16.5-17.5</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
Earth Science Elective		3	Free Elective/restricted elective		6
ENGL 250	W/O/V/E Communications	<u>3</u>	Ethics/Humanities/Social Science Elective		<u>3</u>
		<u>15</u>			<u>16</u>

Junior Year***

PHYS 106	Physics Common Exper.	4	NREM 330	Interpretation of Nat. Res.	3
ENT 370	Insect Biology	3	Communications Elective		3
Botany or Restricted Elective		3-4	A ECL 366	Natural History	3
Ethics/Humanities/Social Science Elective		3	Ethics/Humanities/Social Science Elective		3
Free Elective		<u>3</u>	BIOL 366	Plant Systematics	<u>4</u>
		<u>16-17</u>			<u>16</u>

Senior Year***

NREM 430	Media Tech. in Interp.	3	Botany or Restricted Elective		3
Restricted Elective		3-4	Restricted Elective		3
Free Electives		7	Communications Elective		3
Ethics/Humanities/Social Science Elective		<u>3</u>	NREM 303		1
		<u>16-17</u>	Free Electives (if needed)		<u>8</u>
					<u>18</u>

* To complete degree program in 4 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). NREM 430 is offered on an alternate year basis.