

**Natural Resource Conservation and Restoration Option
Coursework Requirements - 2007-2009 Catalog
44 Total Credits**

Required Courses

44 credits

A ECL 312	Ecology	4 cr
BIOL 212	Principles of Biology	3 cr
BIOL 212L	Principles of Biology Lab	1 cr
BIOL 204	Biodiversity	2 cr
FOR 356	Dendrology	4 cr
FOR 452	Forest Ecosystem Management	3 cr
MATH 151 or 181	Calculus Elective	3-4 cr
NREM 301	Forest Ecology and Soils	4 cr
NREM 330	Interpretation of Natural Resources	3 cr
NREM 390	Fire Ecology and Management	3 cr
NREM 407	Watershed Management	4 cr
PI P 416	Forest Insect and Disease Ecology	4 cr
NREM 104	Practical experience requirement	R

Select one of the following courses:

FOR 453	Forest Resource Policy and Administration	3 cr
NREM 385	Natural Resource Policy	3 cr
NREM 460	Controversies in Renewable Resource Mgmt.	3 cr

Three credits from approved list of restricted elective courses:

C R P 491	Environmental Law & Planning	3 cr
ECON 380	Environmental and Resource Economics	3 cr
ENT 370	Insect Biology	3 cr
FOR 475	Urban Forestry	3 cr
NREM 446	GPS/GIS for Natural Resource Mang.	3 cr
SOC 382	Environmental Sociology	3 cr

Suggested Sequence of Courses

Natural Resource Conservation and Restoration Option*

Freshman Year

Biol 211	Principles of Biology	3	Agron 154	Fund. of Soil Science	3
Biol 211L	Prin. of Biology Lab	1	Chem 163	General Chemistry	4
NREM 110	Orientation in NREM	R	Chem 163L	General Chemistry Lab	1
Engl 150	Critical Thinking & Comm	3	Stat 101	Intro to Statistics	4
Math 140	College Algebra**	3	Lib 160	Library Instruction	0.5
NREM 120	Intro. Renew Resources	3	Math 150	Math for Social Science	<u>3</u>
Soc130/134	Sociology Elective	<u>3</u>			<u>15.5</u>
		16			

Sophomore Year

For 201	Forest Biology	2	Sp Cm 212	Fund. of Public Speaking	3
For 202	Wood Utilization	2	Engl 250	W/O/V/E Communications	3
For 203	Resource Meas./Eval.	2	Biol 212	Principles of Biology II	3
For 204	Ecosys. Decision-Making	2	Biol 212L	Lab for Biology II	1
For 205	Integrated Forestry Lab	3	NREM 211	Careers in Nat. Res.	1
For 206	Fall Forestry Camp	<u>4</u>	Free Elective		<u>3</u>
		15			14

Junior Year***

Math 151	Calculus	3	For 302	Silviculture	3
For 356	Dendrology	4	For 451	For. Econ./Quant. Methods	4
NREM 301	Forest Ecology and Soils	4	Biol 204	Biodiversity	2
A ECL 312	Ecology	4	NREM 330	Interpretation of Nat. Res.	3
US Diversity	Elective	<u>3</u>	PI P 416	For Insect & Disease Ecol.	<u>4</u>
		18			16

Senior Year***

NREM 390	Fire Ecology and Mang.	3	NREM 407	Watershed Management	4
For 452	Forest Ecosystem Mgmt.	3	For 453	Forest Policy & Admin.	3
Communication Elective		3	For 454	Forestry Practicum	3
Ethics Elective		3	International Perspectives Elective		3
Restricted Elective		2.5	Free Electives		<u>3</u>
Humanities Elective		<u>3</u>			16
		17.5			

* 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 cost.

*** 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).

Note: In addition to coursework listed above, students must complete departmental requirements for Practical Work Experience requirement (NREM 104). See <<http://www.nrem.iastate.edu/students/undergrad/internship.htm>> for details.