

**Natural Resource Conservation and Restoration Option  
Coursework Requirements - 2016-2017 Catalog  
44 Total Credits**

**Required Courses**

A ECL 312  
BIOL 212  
BIOL 212L  
BIOL 204  
FOR 356  
FOR 416 and 416L  
FOR 452  
MATH 151 or 181  
NREM 301  
NREM 330  
NREM 390  
NREM 407  
NREM 104

**41 credits**

Ecology 4 cr  
Principles of Biology 3 cr  
Principles of Biology Lab 1 cr  
Biodiversity 2 cr  
Dendrology 4 cr  
Forest Insect and Disease Ecology 4 cr  
Ecosystem Management 3 cr  
Calculus Elective 3-4 cr  
Natural Resource Ecology and Soils 4 cr  
Principles of Interpretation 3 cr  
Fire Ecology and Management 3 cr  
Watershed Management 4 cr  
Practical experience requirement R

**Policy Elective**

NREM 385  
NREM 460

**Select one course from the following list:**

Natural Resource Policy 3 cr  
Controversies in Natural Resource Mgmt. 3 cr

**Restricted Elective**

C R P 491  
ECON 380  
ENT 370  
FOR 475  
NREM 446  
SOC 382

**Select three credits from the following list:**

Environmental Law & Planning 3 cr  
Environmental and Resource Economics 3 cr  
Insect Biology 3 cr  
Urban Forestry 3 cr  
Integrating GPS/GIS for Natural Resource Mang. 3 cr  
Environmental Sociology 3 cr

## Suggested Sequence of Courses

### Natural Resource Conservation and Restoration Option\*

#### Freshman Year

Biol 211	Principles of Biology	3	Math 150	Math for Social Science	3
Biol 211L	Prin. of Biology Lab	1	Chem 163	General Chemistry	4
NREM 110	Orientation in NREM	1	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	1
NREM 120	Intro. Renew Resources	3	Free Elective		2
Soc	Sociology elective	3	NREM 211	Careers in Nat. Res.	1
		17			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	Agron 154	Fund of Soil Science	3
For 206	Fall Forestry Camp	4	Required Elective		3
		15			16

#### Junior Year\*\*\*

Math 151/181	Calculus Elective	3 or 4	For 302	Silviculture	3
For 356	Dendrology	4	For 451	For. Econ./Quant. Methods	4
NREM 301	Nat Res Ecology and Soils	4	Biol 204	Biodiversity	2
Restricted Elective		3	NREM 330	Principles of Interpretation	3
Required Elective		3	Required Elective		3
		17-18			15

#### Senior Year\*\*\*

NREM 390	Fire Ecology and Mgmt.	3	NREM 407	Watershed Management	4
For 452	Ecosystem Mgmt.	3	Policy Elective		3
Communication Elective		3	For 454	Forestry Practicum	3
For 416 & L	For Insect & Disease Ecol.	4	Required Elective		3
A ECL 312	Ecology	4	Free Electives		3
		17			16

\* 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/workexperience> for details.