

**Forest Ecosystem Management Option
Coursework Requirements - 2016-2017 Catalog
35 Total Credits**

Required Courses

BIOL 212, 212L
FOR 280
FOR 442*
FOR 356
FOR 416 and 416L
FOR 452
MATH 151 or 181
NREM 301
NREM 345
NREM 104

Policy Elective

NREM 385
NREM 460

35 credits

Principles of Biology II and Lab	4 cr
Wood Properties and Identification	4 cr
Dynamics of Forest Stands	3 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
Nat. Res. Photogrammetry and GIS	3 cr
Practical experience requirement	R

Select one course from the following list:

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

* Course offered only in alternate years:
FOR 442 offered FALL 2016

For subsequent offerings, see the ISU "Schedule of Classes" web page.

Suggested Sequence of Courses
Forest Ecosystem Management Option*

Freshman Year

Biol 211	Principles of Biology	3	Math 150	Math for Social Sciences	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	NREM 211	Careers in Nat. Res.	1
Soc	Sociology Elective	<u>3</u>	Free Elective		<u>2</u>
		<u>17</u>			<u>16</u>

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	Prin. of Biology II	3
For 204	Ecosys. Decision-Making	2	Biol 212L	Prin. of Biology II Lab	1
For 205	Integrated Forestry Lab	3	For 280	Wood Prop. & ID	4
For 206	Fall Forestry Camp	<u>4</u>	Agron 154	Fund. of Soil Science	<u>3</u>
		<u>15</u>			<u>17</u>

Junior Year***

Math 151/181	Calculus Elective	3	For 302	Silviculture	3
For 356	Dendrology	4	For 451	For. Econ./Quant. Methods	4
NREM 301	Nat Res Ecology and Soils	4	Required Elective		6
Free Elective		3	NREM 345	Photogrammetry	<u>3</u>
OR					<u>16</u>
FOR 442	Dynamics of Forest Stands	3			
Required Elective		<u>3</u>			
		<u>17</u>			

Senior Year***

For 442	Dynamics of Forest Stands	3	Policy Elective		3
OR			For 454	Forestry Practicum	3
Free Elective		3	Communications Elective		3
For 452	Ecosystem Mgmt.	3	Required Elective		3
For 416 & L	Forest Insect & Disease	4	Free Elective (as needed)		<u>3</u>
Free Electives		<u>6</u>			<u>15</u>
		<u>16</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 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.