

**Forest Ecosystem Management Option
Coursework Requirements - 2009-11 Catalog
35 Total Credits**

Required Courses

35 credits

BIOL 212, 212L	Principles of Biology II and Lab	4 cr
FOR 280	Wood Anatomy and Properties	4 cr
FOR 342*	Dynamics of Forest Stands	3 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 345	Nat. Res. Photogrammetry and GIS	3 cr
FOR 416	Forest Insect and Disease Ecology	4 cr
NREM 104	Practical experience requirement	R

Select one of the following Policy Elective 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

* Course offered only in alternate years:
FOR 342 offered FALL 2010

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	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	NREM 211	Careers in Nat. Res.	1
Soc130/134	Sociology Elective	<u>3</u>	Free Elective		<u>3</u>
		16			16.5

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 Anatomy & Prop.	4
For 206	Fall Forestry Camp	<u>4</u>	Free Elective		<u>3</u>
		15			17

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	Forest Ecology and Soils	4	International Perspectives Elective		3
NREM 345	Photogrammetry	3	US Diversity Requirement		3
OR			Ethics Elective		<u>3</u>
FOR 342	Dynamics of Forest Stands	3			16
Humanities Elective		<u>3</u>			
		17			

Senior Year***

For 342	Dynamics of Forest Stands	3	Policy Elective		3
OR			For 454	Forestry Practicum	3
NREM 345	Photogrammetry	3	For 416	Forest Insect Disease	4
For 452	Forest Ecosystem Mgmt.	3	Free Electives		<u>6</u>
Communications Elective		3			16
Free Electives		<u>6</u>			
		15			

* 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/work_experience.php> for details.