

**NATURAL RESOURCE MANAGEMENT SAMPLE CURRICULUM**  
**2011-2012**  
**Ecosystem Science and Management Emphasis (Optional)**

**FRESHMAN**

Fall	Winter
MTH 110 Algebra (prerequisite course)	MTH 122 College Algebra (required cognate, BS cognate)
BIO 120 General Biology I (required cognate)	BIO 121 General Biology II (required cognate)
CHM 109 Introductory Chemistry, or CHM 115 Principles of Chemistry I (required cognate)	GEO 111 Physical Geology (required cognate)
WRT 150 Strategies in Writing (required general education course)	NRM 150 Introduction to Natural Resources (required core)

**SOPHOMORE**

Fall	Winter
BIO 215 General Ecology (required cognate)	NRM 395 GIS App. in Resource Management (required core)
NRM 250 Resource Measurements and Maps (required core)	STA 215 Introductory Applied Statistics (required cognate)
NRM 281 Principles of Soil Science (required core)	Gen Ed Courses
Gen Ed Courses	ECO 211 Microeconomics (required cognate)

**JUNIOR**

Fall	Winter
Cognate Elective (see list of options below)	NRM 320 Intro. to Resource Sys. (required core, BS cognate)
NRM 452 Watershed and Wetland Management (required core)	NRM 462 Forest Ecosystem Management (required core)
Gen Ed Courses	NRM 308 Wildlife Ecology (required core)
	Gen Ed Courses
	Cognate Elective (see list below)

**SENIOR**

Fall	Winter
BIO 460 Terrestrial Ecosystem Ecology (required core, BS cognate)	NRM 495 Capstone: Trends in NRM (required core - SWS)
Cognate elective (see list below)	Cognate Elective (see list below)
NRM core electives	NRM core electives
Gen Ed Courses	Gen Ed Courses or electives

**COGNATE ELECTIVES**

Completion of at least 10 – 11 additional credits to reach a minimum total of 40 cognate credits: select at least ONE course from EACH of the following cognate groups:

**Plant Taxonomy and Identification**

BIO 243 – Plant Identification and Natural History  
 BIO 323 – Aquatic and Wetland Plants  
 BIO 333 – Systematic Botany  
 BIO 433 – Plant Ecology

**Aquatic Sciences**

BIO 362 – Fisheries Biology  
 BIO 402 – Aquatic Insects  
 BIO 440 – Limnology  
 BIO 450 – Stream Ecology

**Wildlife Biology**

BIO 342 – Ornithology  
 BIO 408 – Wildlife Management  
 BIO 412 – Mammalogy  
 BIO 470 – Conservation Biology

You should consult with your advisor for guidance as to which classes to take. This is particularly important if you plan to attend graduate school.

**KEY**

required cognate - you must take this class  
 required core - you must take this class

General education classes, cognates, and NRM elective classes should be taken to complete your schedule. You may want to consider taking the Earth and the Environment Theme; be advised that BIO 105 will NOT count as a cognate class. Consult with your advisor about the other choices in that category.

Updated: **5/23/11**

<p style="text-align: center;"><b>REQUIREMENTS FOR A NATURAL RESOURCES MANAGEMENT MAJOR</b> <b>Ecosystem Science and Management Emphasis (Optional)</b></p>
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**CORE (NRM) CLASSES**

You must take and pass a minimum of 40 credits of NRM core classes with a GPA of 2.0 or better.

BIO 460 counts as a core (NRM) class.

BIO 408 may be counted as a core (NRM) class with the approval of your advisor, but cannot be counted as both cognate and NRM credit at the same time.

You should consult with your advisor for guidance as to which classes to take.

**REQUIRED COGNATE CLASSES**

You must take and pass a minimum of 40 credits of classes in cognate areas (they may NOT have an NRM prefix). The courses listed below, in addition to completion of the cognate electives listed on the front of this advising guide, will fulfill the cognate requirement.

There are 29 - 30 credits of cognates required in the curriculum:

MTH 122 College Algebra	STA 215 Introductory Applied Statistics
BIO 120 General Biology I	BIO 121 General Biology II
BIO 215 General Ecology	GEO 111 Physical Geology
CHM 109 Introductory Chemistry	ECO 211 Microeconomics
or CHM 115 Principles of Chemistry I	

**SUPPLEMENTAL WRITING SKILLS (SWS)**

WRT 150 should be taken before your first SWS class.

Two SWS (supplemental writing skills) classes must be completed. Only one can have a NRM prefix. NRM 495, a required class, is also an SWS class. Please check the schedule carefully to ensure that these classes are being taught as SWS classes (occasionally they do not have an SWS designation).

**GENERAL**

Most of the classes should be taken in the order suggested on the other side because they are prerequisites to NRM classes.

Most of the NRM classes are offered only once each year.

NRM classes are generally not offered during the summer. You are encouraged to obtain a natural resources management job, an internship (NRM 490), conduct a research project (NRM 499), or take general education and elective classes during the summer.

NRM 180, 280, 380 and 480 are designations for a special topics class. You may take multiple classes with an NRM X80 designation because each class will cover a different topic.

No more than 3 credits of NRM 399 (readings) will be counted towards the major.

No more than 3 credits of NRM 499 (research) will be counted towards the major.

No more than 5 credits of NRM 490 (internship) and NRM 499 (research) total can be applied to the major.

BIO 417 and BIO 418 are field trip classes. You MAY be able to count these classes as core classes (NRM credit) but you MUST check with your advisor BEFORE you take the class. No more than 6 credits can be applied to the major.