

NATURAL RESOURCE MANAGEMENT SAMPLE CURRICULUM

2011-2012

Resource Analysis Methods Emphasis (Optional)

FRESHMAN

Fall

MTH 110 Algebra (prerequisite course)
BIO 120 General Biology I (required cognate)
CHM 109 Introductory Chemistry, or
CHM 115 Principles of Chemistry I (required cognate)
WRT 150 Strategies in Writing (required general education course)

Winter

MTH 122 College Algebra (required cognate, BS cognate)
BIO 121 General Biology II (required cognate)
GEO 111 Physical Geology (required cognate)
NRM 150 Introduction to Natural Resources (required core)

SOPHOMORE

Fall

NRM 250 Resource Measurements and Maps (required core)
BIO 215 General Ecology (required cognate)
Gen Ed Courses
Cognate Group Elective (see below for options)

Winter

NRM 395 GIS App. (only offered in the winter – required core)
STA 215 Introductory Applied Statistics (required cognate)
ECO 211 Microeconomics (required cognate)
Gen Ed Courses

JUNIOR

Fall

NRM 450 Applied Spatial Analysis of Natural Resources (req. core)
Gen Ed Courses
Cognate Group Elective
NRM core electives

Winter

NRM 320 Intro. to Resource Systems (required core, BS cognate)
Cognate Group Elective
NRM core electives

SENIOR

Fall

BIO 460 Terrestrial Ecosystem Ecology (required core, BS cognate)
Cognate Group Elective
NRM core electives

Winter

NRM 495 Capstone: Trends in NRM (required core - SWS)
NRM core electives
Gen Ed Courses

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.

COGNATE GROUP ELECTIVES

Select one of the following groups and complete all courses for a total of 10 – 11 additional cognate credits.

Computer Science

CIS 160 Programming with Visual Basic
CIS 231 Problem Solving Using Spreadsheets
CIS 233 Concepts of Database Systems

Statistics

STA 216 Intermediate Applied Statistics
STA 315 Design of Experiments
One of STA 317, STA 321 or STA 416

Spatial Methods

Choose three of the following:
GPY 307 Introduction to Computer Mapping
GPY 370 Introduction to Remote Sensing
GPY 407 Advanced GIS
GPY 470 Digital Image Processing

REQUIREMENTS FOR A NATURAL RESOURCES MANAGEMENT MAJOR Resource Information Science Emphasis (Optional)

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.

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

NRM CORE ELECTIVE OPTIONS (to make a total of 40 NRM credits)

BIO 408	Wildlife Management (check with your advisor)	NRM 140	The Climatic Factor
NRM 380	Special Topics (also NRM 180, 280, 480)	NRM 240	Principles of Climatology
NRM 330	Environmental Pollution	NRM 399	Readings in Resource Management
NRM 420	Wildland Recreation Mgmt.	NRM 451	Natural Resource Policy
NRM 452	Watershed and Wetland Management	NRM 462	Forest Ecosystem Management
NRM 481	Soils and Soil Classification	NRM 484	Land Reclamation
NRM 490	Internship in Resource Management	NRM 499	Research in Resource Management

ADDITIONAL COGNATE CLASSES

You must take and pass a minimum of 40 credits of classes in cognate areas (they may NOT have an NRM prefix). Complete the following required 29 – 30 credits of cognates along with one of the group elective options on the first page of this guide:

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, or CHM 115, Principles of Chemistry I	ECO 211 Microeconomics

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.