



Natural Resource Conservation and Management

College of Agriculture and School of Human Environmental Sciences

The program in Natural Resource Conservation and Management is designed to provide students with the knowledge and skills needed for a career in the rapidly growing fields of environmental science and policy.

All students in the program share a common core of major requirements. This core is designed to provide the student with broad exposure to the technical and socioeconomic dimensions of natural resources and their management.

Graduates of the Natural Resource Conservation and Management degree program are employed as professionals in both the public and private sectors. Industries which have an impact upon the environment maintain a staff of environmental scientists and technicians to ensure compliance with the standards of our society.

Graduation Requirements

To earn a Bachelor of Science in Natural Resource Conservation and Management, the student must complete at least 120 semester hours with at least a 2.0 grade-point standing.

Plan of Study

As a Natural Resource Conservation and Management major, you are required to work with your advisor to develop a complete Plan of Study during your sophomore year for your junior and senior years.

University Studies Requirements

Hours

See "University Studies Program" on pages 84-88 of the 2010-2011 UK Bulletin for the complete University Studies requirements.

The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas.

Courses marked with an asterisk (\*) may also be used to satisfy University Studies requirements.

Inference-Logic

MA 123 Elementary Calculus and Its Applications ..... 3
or
MA 113 Calculus I ..... 4

Natural Sciences

CHE 105 General College Chemistry I ..... 3
CHE 107 General College Chemistry II ..... 3
CHE 111 Laboratory to Accompany General Chemistry I ..... 1
CHE 113 Laboratory to Accompany General Chemistry II ..... 2

Social Sciences

ECO 201 Principles of Economics I ..... 3
One course other than economics from University
Studies Program list ..... 3

USP Electives

BIO 150 Principles of Biology I ..... 3
BIO 152 Principles of Biology II ..... 3

College Required Hours

GEN 100 Issues in Agriculture ..... 3
Subtotal: College Required Hours ..... 3

Premajor Requirements

Hours

\*BIO 150 Principles of Biology I ..... 3
\*BIO 152 Principles of Biology II ..... 3
PLS 210 The Life Processes of Plants ..... 3
\*CHE 105 General College Chemistry I ..... 3
\*CHE 107 General College Chemistry II ..... 3
\*CHE 111 Laboratory to Accompany General Chemistry I ..... 1
\*CHE 113 Laboratory to Accompany General Chemistry II ..... 2
\*ECO 201 Principles of Economics I ..... 3
GLY 220 Principles of Physical Geology ..... 4
\*MA 113 Calculus I
or
\*MA 123 Elementary Calculus and Its Applications ..... 3-4
STA 291 Statistical Method ..... 3
\*These courses satisfy USP requirements.
Subtotal: Premajor Hours ..... 31-32

# Natural Resource Conservation and Management • 2

Major Requirements	Hours
AEC 424 Principles of Environmental Law .....	3
AEC 445G Introduction to Resource and Environmental Economics .....	3
FOR 230 Conservation Biology .....	3
FOR 340 Forest Ecology .....	3
NRC 301 Natural Resource Conservation and Management** .....	3
NRC 320 Data Collection Techniques*** .....	3
NRC 380 Analysis of Natural Resource Systems .....	3
NRC 381 Natural Resource Policy Analysis .....	3
NRC 395 Independent Study in Natural Resources† or	
NRC 399 Experiential Education in Natural Resources† .....	3
NRC 471 Senior Problem in Natural Resources .....	3
NRC 555 Geographic Information Systems and Landscape Analysis ...	3
PLS 366 Fundamentals of Soil Science .....	4
plus <b>one</b> of the following:	
NRC 420G Taxonomy of Vascular Plants .....	4
NRC 450G Biogeochemistry .....	3
NRC 455G Wetland Delineation .....	3
NRC 456G Constructed Wetlands .....	3
NRC 477G Land Treatment of Waste .....	3
NRC 545 Resource and Environmental Economics .....	3
<i>**May be used to satisfy the University Writing Requirement.</i>	
<i>***NRC 320 is a three-week summer camp field data collection experience. The student will attend this camp after the sophomore or junior year. This camp exposes the student to a wide range of natural resource techniques and concepts, including aquatic ecology, soil and plant sciences, wildlife and forestry, and waste management.</i>	
<i>†All students must complete either an internship (NRC 399) or a supervised research project (NRC 395). This requirement is designed to give the student real world exposure to natural resource work in their area of interest.</i>	
<b>Subtotal: Major Hours .....</b>	<b>40-41</b>

## Concentration Area

In addition to the major requirements, each student, in consultation with his or her academic advisor, will select a minimum of 18 hours in course work that will constitute the student's Concentration Area. At least 9 of these hours must be at the 300 level or above. This Concentration Area consists of a unique set of courses that allow specialization in a particular area. For example, a student might choose to develop a concentration in Natural Resource Policy, Wildlife Ecology, or Soil and Water Science. Alternatively, the student may wish to minor in another natural resources related program, for example Geology or Economics. If a minor is chosen, those hours will count towards the Concentration Area hours. In either case, the Concentration Area should represent a coherent theme.

The Concentration Area will be developed in the sophomore year as part of the required Plan of Study. This Plan of Study must be approved by the student's advisor, the NRCM Steering Committee, and then put on file in the Office of the Associate Dean for Academic Programs in the College of Agriculture.

**Subtotal: Concentration Area .....** 18

## Electives

Free elective courses should be selected by the student to lead to the minimum total of 120 hours required for graduation.

**Subtotal: Electives .....** minimum of 6

**TOTAL HOURS: .....** 120