

Environmental Management Concentration

Career Opportunities

Of all living beings, humans are unique in their ability to manage the environment in which they live. However, modification of the environment to suit human needs often results in the degradation of environmental ecosystems. This program is a science-oriented curriculum designed to provide a broad understanding of environmental quality. Students will develop a solid foundation in basic sciences, mathematics and communications skills. This foundation will then be applied in courses dealing with ecology and natural resources. Students will be strongly encouraged to pursue relevant work experience through supervised field study with an approved agency or firm.

Employment Possibilities

Graduates of this program will find employment opportunities as technical, scientific or support personnel with local, state or federal agencies, or with private industry. Examples include positions with municipal waste treatment facilities; state and federal regulatory agencies; consulting firms involved in environmental remediation and development of impact statements; various manufacturers; environmental and conservation support organizations; and other public and private employers in the environmental field. The curriculum will also prepare the student for graduate study in areas related to the environment and natural resources, including environmental law.

Facilities

All facilities of the campus, including the library, student learning center, computer center and recreational complex are available for student use. A nearby 700-acre UT Martin Agricultural and Natural Resources Field Teaching/Demonstration Complex is used for research, teaching, and demonstration. Classrooms and laboratories of the College of Agriculture and Applied Sciences located in Brehm Hall and the Ned R. McWherter Agricultural Pavilion are contemporary and provide an effective learning environment. Numerous computer facilities are available for the student's convenience. In some cases, field trips are made to nearby industries and farms to learn their operating procedures.

Sample Program of Study

This list includes all courses required; however, the sequence may be flexible.

Freshman Year

Fall

Biology 110: Introductory Cell Biology and Genetics4
English 111: English Composition3
Geology 110: Physical Geology4
Math 140: College Algebra and Elementary Functions....3

Total Hours.....14

Spring

Biology 120: Introductory Plant and Animal Biology4
English 112: English Composition.....3
Math 210: Elementary Statistics and Probability3
Natural Resources Management 100: Introduction to
Natural Resources Management3

Total Hours.....13

Sophomore Year

Fall

Agricultural Engineering Technology 220: Surveying and
Soil Water Engineering3
Chemistry 111: Introduction to Chemistry I:
General and Organic.....4
Math 160: Calculus for Business and Life Sciences.....3
Natural Resources Management 210:
Mediating Environmental Conflicts3
Social & Behavioral Sciences Elective*3

Total Hours.....16

Spring

Chemistry 112: Introduction to Chemistry II:
General and Organic.....4
Communications 230: Public Speaking3
Soil Science 210: Introduction to Soil Science4
Fine Arts Elective*3
Social & Behavioral Sciences Elective*3

Total Hours.....17

*See catalog for options

Note 1: Selected from PLSC 110, 205, 333, 334, 341, 422.

Note 2: To selected from GEOG 310, GEOG 410, AGET 482

Note 3: To selected from upper division courses in departments of: agriculture and natural resources; biological sciences; chemistry; geology, geography and physics; or engineering. Student encouraged to satisfy electives with NRM 420.

Note 4: One course must be selected from ECON 101, 201 or 202.

Junior Year

Fall

English 325: Technical Communications.....3
Natural Resources Management 390: Career Planning in
Natural Resource Management2
Soil Science 315 or 430: Soil and Water Conservation
or Wetland Science (Spring only)3
Plant Science Elective* (see note 1)3
Science Elective* (see note 3).... 3

Total Hours.....14

Spring

Agricultural Economics 445: Natural Resources
Economics3
Biology 331: General Ecology3
Microbiology 251: General Bacteriology4
GIS Elective* (see note 2)3
Humanities Elective* (see note 4)3

Total Hours.....16

Senior Year

Fall

Biology 418: Limnology3
Geology 365, 445 or Soil 440: Tennessee's Geological
and Cultural Landscapes, Geohydrology, or Soil
Physics.3
Humanities Elective* (see note 4)3
Science Electives* (see notes 3)6

Total Hours.....15

Spring

Agricultural Engineering Technology 460: Waste
Management Technology3
Geography 472: Climatology.....3
Natural Resource Management 350: Environmental
Regulation3
Humanities Elective* (see note 4)3
Science Elective* (see notes 3)3

Total Hours.....15

For More Information Contact

Dr. Jerry Gresham
Department of Agriculture and Natural Resources
257 Brehm Hall
Martin, TN 38238
Phone: (731) 881-7262
E-mail: anrinfo@utm.edu

