The University of Tennessee at Martin
Environmental Management Concentration 2005-2006

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 Agricultural Experiment Station and UTM Agricultural Field Teaching/Demonstration Complex are jointly used for research, teaching, and demonstration. Classrooms and laboratories of the College of Agriculture and Applied Sciences located in Brehm Hall and the West Tennessee 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.

For More Information Contact

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Program of Study: Environmental Management Concentration, 2005-2006

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

Freshman Year

Fall

Biology 110: Introductory Cell Biology and Genetics . . 4
English 111: English Composition 3
Geology 110: Physical Geology 4
Math 140: College Algebra and Elementary Functions 3
Total Hours 14

Spring

Biology 120: Introductory Plant and Animal Biology . . 4
English 112: English Composition 3
Math 210: Elementary Statistics and Probability 3
Natural Resources Management 100: Introduction to Natural Resources Management 3
Total Hours 13

Sophomore Year

Fall

Agricultural Engineering Technology 220: Surveying and Soil Water Engineering 3
Chemistry 121: General Chemistry 4
Math 160: Calculus for Business and Life Sciences . . 3
Natural Resources Management 210: Mediating Environmental Conflicts 3
Global Dynamics elective* 3
Total Hours 16

Spring

Chemistry 122: General Chemistry 4
Communications 230: Public Speaking 3
Soil Science 210: Introduction to Soil Science 4
Aesthetics Elective* 3
Social Dynamics Elective* 3
Total Hours 17

Junior Year

Fall

Chemistry 310, 319 or 320: Chemistry, Organic and Biochemistry, Quantitative Analysis 4
English 325: Technical Communications 3
Natural Resources Management 390: Career Planning in Natural Resource Management 2
Soil Science 315 or 430: Soil and Water Conservation or Wetland Science (Spring only) 3
Plant Science Elective* (see note 1) 3
Total Hours 15

Spring

Agricultural Economics 445: Natural Resources Economics 3
Biology 331: General Ecology 3
Microbiology 251: General Bacteriology 4
GIS Elective* (see note 2) 3
Global Dynamics Elective* 3
Total Hours 16

Senior Year

Fall

Biology 418: Limnology 3
Economics 100: American Enterprise System 3
Geology 440 or 481 or Soil 440 3
Global Dynamics Elective* 3
Science Electives (see notes 3) 2
Total Hours 14

Spring

Agricultural Engineering Technology 460: Waste Management Technology 3
Geography 472: Climatology 3
Natural Resource Management 350: Environmental Regulation 3
Science Electives (see notes 3) 6
Total Hours 15

*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, PRAD 300.

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.