

Soil and Water Conservation

Concentration

Career Opportunities

Urbanization, industrial growth and population growth are placing increased demands on our land and water resources. To provide food and shelter for future generations, many professionals trained to manage soil, water and other natural resources are needed. The future food supply must come from a declining land, energy and labor base, scientific principles and technology to protect and sustain our natural resources will become increasingly important.

The soil and water conservation curriculum prepares students for conservation and management of soil and water resources for the long range benefit of society. Requirements include a strong background in physical, chemical and biological relationship of soil, water and plants.

Employment Possibilities

Many excellent opportunities for employment are available for graduates of the soil and water conservation curriculum. Employment opportunities are available with federal agencies such as the Natural Resource Conservation Service and Bureau of Land Management; other government units, including state, county and municipal agencies; planning and economic development districts; business in the agricultural industry such as fertilizer, chemical, forest products and pollution control firms; public utility companies; and private industries including banks, financial institutions and real estate agencies. The local soil conservationist, soil scientist, land manager, etc., is most likely trained in this field.

Facilities

Facilities on campus, including the Ned R. McWherter Agricultural Complex, the 700-acre UT Martin Agricultural and Natural Resources Field Teaching/Demonstration Complex, and our nearness to farm people make an ideal setting and are excellent for study in this area. The great needs for conservation of soil, water and related natural resources for study are unlimited and easily accessible. Numerous computer facilities are also available for student use. Students participate in local, regional and national conferences and contests on a regular basis.

The University of Tennessee at Martin
Department of Agriculture, Geosciences, and Natural Resources
Bachelor of Science in Natural Resources Management
SOIL AND WATER CONSERVATION CONCENTRATION
(Major code 1152)

Program Description: www.utm.edu

University Wide Fine Arts & Aesthetics – 3 hrs

Requirement

- Choose 1 course from ART 110; ARTH 210, 211; DANC 110; MUS 111,112, 113;THEA 110, 111 (3 hrs)

Natural Resources Management Biological & Physical System – 20 hrs

Requirement

- BIOL 130 and 140 (8 hrs)
- CHEM 111 and 112 (8 hrs)
- GEOL 110 (4 hrs)

University Wide Communication – 9 hrs

Students who place in ENGL 100, will use ENGL 110 instead of ENGL 111 in the ENGL sequence.

Requirement

- ENGL 111 (3 hrs) (Min C grade)
- ENGL 112 (3 hrs) (Min C grade)
- COMM 230 (3 hrs)

University Wide Humanities – 9 hrs

Requirement

- Choose 3 courses from ENGL 250, 251, 260, 261, 270, 271; FREN 250; GERM 250; HIST 121, 122, 201, 202; HONR 111; PHIL 110, 120, 130, 160; SPAN 250 (9 hrs)

Natural Resources Management Mathematics – 6 hrs

Requirement

- MATH 140 or 185 (3 hrs)
- MATH 210 (3 hrs)

Natural Resources Management Social & Behavior Science– 6 hrs

Requirement

- Choose at least one course from ECON 100, 201, 202 (3 hrs)
- Additional course from ECON 100, 201, 202 (if not taken above); ENGR 100; GEOG 151, 152, 202; IDST 201; NRM 101; POSC 210; PSYC 110, 120; SWRK 220; SOC 201, 202; HLTH 111; HONR 112 (3 hrs)

Natural Resources Management Core – 13 hrs

Requirement

- AGET 220 (3 hrs)
- NRM 100 (3 hrs)
- NRM 210 (3 hrs)
- SOIL 210 (4 hrs)

Soil & Water Conservation Concentration – 41 hrs

Requirement

- AGRI 441 (3 hrs)
- AGECE 110 (3 hrs)
- AGET 460 (3 hrs)
- ENGL 325 (3 hrs)
- GEOL 365 or 445 (3 hrs)
- Choose 3 hours from GEOG 310, 410; AGET 482; PRAD 300
- MBIO 251 (4 hrs)
- PHYS 101, 211, or 150 (4 hrs)
- Choose 6 hours from PLSC 110, 333, 422
- Choose 9 hours from SOIL 315, 321, 412, 440

Soil & Water Conservation Electives – 13 hrs

Requirement

- Choose 2 hours from SOIL courses (SOIL 250 recommended)
- Choose 8 hours of upper division science electives from the departments of AG, NRM, Biological Science, Chemistry, Engineering, Geography, Geology, and Physics (NRM 420 recommended)
- Choose 3 hours of electives; or enough to complete 120 degree hours

As a general rule:

100 & 200 level courses are lower division courses and target freshman and sophomore years;

300 & 400 level courses are upper division courses and target junior and senior years;

However, this is variable and student should work closely with faculty advisor to meet individual needs

