The University of Tennessee at Martin
Bachelor of Science in Natural Resources Management (with a major in NRM)
Soil and Water Conservation Concentration (program 1152)

Overview
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. Therefore, scientific principles and technology to protect and sustain our natural resources are becoming 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.

Career Opportunities
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; businesses in the agricultural industry such as fertilizer, chemical, forest products and pollution control firms; public utility companies; and private industries including banks, financial institutions, real estate agencies, and non-governmental organizations. 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, contests and research on a regular basis.

Dr. Wes Totten, Chair
Department of Agriculture, Geosciences, and Natural Resources
257 Brehm Hall
Martin, TN 38238
Phone: 731-881-7262
Email: wtotten@utm.edu
### Course Requirements: BS in Natural Resources Management - Soil & Water Conservation (1152)

**Fine Arts (3 hours) Select One**
- ART 110 Understanding Visual Arts ___/3
- ARTH 210 The History of Art ___/3
- ARTH 211 The History of Art ___/3
- DANC 110 Understanding Dance ___/3
- MUS 111 Masterpieces of Music ___/3
- MUS 112 Music in Our Time ___/3
- MUS 113 Western Masterpieces ___/3
- MUS 114 Historical Survey of Jazz ___/3
- MUS 115 Music for the Masses ___/3
- THEA 110 Understanding Theatre ___/3
- THEA 111 Understanding Theatre ___/3

**Biological & Physical Systems (20 hours)**
- BIOL 130 Foundations: Ecology, Evolution, & Diversity ___/4
- BIOL 140 Foundations: Cell & Molecular ___/4
- CHEM 111 Intro to Chemistry I: General & Inorganic ___/4
- CHEM 112 Intro to Chemistry II: Organic & Biochem ___/4
- GEOL 110 Intro to Physical Geology ___/4

**Communication (9 hours)**
- ENGL 111 English Composition (Must earn a C or better) ___/3
- ENGL 112 English Composition (Must earn a C or better) ___/3
- COMM 230 Public Speaking ___/3

**Humanities (9 hours) Select three**
- ENGL 250 British Literature ___/3
- ENGL 251 British Literature ___/3
- ENGL 260 American Literature ___/3
- ENGL 261 American Literature ___/3
- ENGL 270 World Literature ___/3
- ENGL 271 World Literature ___/3
- FREN 250 France Today ___/3
- GERM 250 Germany Today ___/3
- HIST 121 World Civilization I ___/3
- HIST 122 World Civilization II ___/3
- HIST 201 History of the U.S. I ___/3
- HIST 202 History of the U.S. II ___/3
- JAPN 250 Japan Today ___/3
- PHIL 110 Adventure of Ideas: Historical ___/3
- PHIL 120 Adventure of Ideas: Contemporary ___/3
- PHIL 130 Ethics and Race ___/3
- PHIL 160 Exploring Ethics ___/3
- SPAN 250 Latin America Today ___/3

**Mathematics (6 hours)**
- MATH 210 Elementary Statistics & Probability ___/3
  - Select One
- MATH 140 College Algebra & Elementary Function ___/3
- MATH 160 Calculus for Business & Life Sciences ___/3
- MATH 185 Precalculus ___/5

**Social & Behavioral Science (6 hours)**
- AGRI 295 International Food & Fiber Systems ___/3
- ANSC 270 Animal Welfare & Ethics ___/3
- ECON 100 American Enterprise System ___/3
- ECON 201 Principles of Macroeconomics ___/3
- ECON 202 Principles of Microeconomics ___/3
- ENGR 100 Society & Technology ___/3
- GEOG 151 Intro Regional Geo: NA, Europe, Russia ___/3
- GEOG 152 Intro Regional Geo: Asia, Africa, LA ___/3
- GEOG 202 Intro to Cultural Geography ___/3
- HLTH 111 Principles & Concepts in Personal Health ___/3
- IDST 201 Intro to Women's Studies ___/3
- NRM 101 Wildlife, Conservation & Environmental Issues ___/3
- NRM 250 Global Perspectives in Natural Resources ___/3
- NUTR 100 Introductory Nutrition ___/3
- POSC 210 American Government & Politics ___/3
- POSC 220 American Political Institutions & Policy ___/3
- PSYC 101 Introduction to Psychology ___/3
- SWRK 220 Understanding Human Diversity ___/3
- SOC 201 General Sociology ___/3
- SOC 202 Social Problems ___/3

**Natural Resources Management Core (19 hours)**
- AGER 270 Intro to Geospatial Technology ___/3
- or GEOG 270 Intro to Geospatial Technology ___/3
- NRM 100 Intro to Natural Resources Mgt ___/3
- NRM 210 Human Dimensions in NaturalResources Mgt ___/3
- SOIL 210 Soil Science ___/4
- WATER (3 hours) Select One
  - NRM 225 Intro to Aquatic Science ___/3
  - NRM 315 Restoration of Freshwater Habitats ___/3
  - SOIL 315 Soil & Water Conservation ___/3
  - SOIL 430 Wetland Science ___/3

**Physics (4 hours) Select one**
- PHYS 101 Physics in Everyday Life ___/4
- or PHYS 211 College Physics ___/4
- or PHYS 150 Concepts & Demonstrations in Physics ___/4

**Plant Science (6 hours) Select Two**
- PLSC 110 Introductory Plant & Soil Science ___/3
- or PLSC 333 Weed Science ___/3
- or PLSC 341 Dendrology & Forest Ecology ___/3
- or PLSC 422 Forage Crops ___/3

**Soil Science (9 hours) Select Three**
- SOIL 315 Soil & Water Conservation ___/3
- or SOIL 321 Soil Genesis, Morphology, & Classification ___/3
- or SOIL 412 Soil Chemistry & Fertility ___/3
- or SOIL 440 Soil Physics ___/3
- GEOL (3 hours from upper-division Geology courses) ___/3

**Soil & Water Conservation Concentration (38 hours)**
- AGRI 441 Interpretation of Agricultural Research ___/3
- AGEC 110 Introduction to Agricultural Business ___/3
- AGEC 460 Waste Management Technology ___/3
- ENGL 325 Technical Communications ___/3
- MBIO 251 General Bacteriology ___/4

**Upper-Division Science Electives (8 hours from upper-division courses in AG, GEO, BIOL, CHEM, PHYS, ENGR)**
- *NRM 420 recommended* ___/3

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**Student: _____________________________ ID: ___________ 2017-2018 Catalog**

- Student who place in ENGL 100, will use ENGL 110 instead of ENGL 111 in the ENGL sequence
- Natural Resources Management Core (19 hours)
- Soil & Water Conservation Concentration (38 hours)
- Physics (4 hours) Select one
- Plant Science (6 hours) Select Two
- Soil Science (9 hours) Select Three
- Upper-Division Science Electives (8 hours from upper-division courses in AG, GEO, BIOL, CHEM, PHYS, ENGR)

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- *NRM 420 recommended*
### B.S. in Natural Resources Management
#### Soil and Water Conservation
#### 2017-2018

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<tr>
<th>Freshman Fall</th>
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