The University of Tennessee at Martin  
Bachelor of Science in Agriculture (with a major in General Agriculture)  
Plant and Soil Science Concentration  
Golf Course and Landscape Management Option (program 1123)

Overview

Although American culture is ever changing, Americans continue to focus leisure time on seeking lifelong recreational activities to fill their free time. These include such things as golf, camping, softball and other outdoor sports, all of which continue to demand better facilities to accommodate their needs. There are over 26 million golfers playing an estimated 16,000 golf courses throughout the country. Refurbishing/renovating historic and outdated golf courses continues to be a popular trend. As a result, the turfgrass and landscape industries continue to be expanding fields. There is over 50 million acres of turfgrass in the United States alone, representing a healthy segment of U.S. agriculture. It brings to the American economy over $40 billion annually.

This program will teach all aspects of turfgrass maintenance by applying theories and concepts to practical, real-world uses. Hands-on learning experiences are offered through this curriculum. Emphasis in this option is on the development of professionalism, problem solving capability and strong technical skills. Students are provided opportunities to develop leadership ability and entrepreneurial skills as well as management ability.

Career Opportunities

Today’s turfgrass, golf course and landscape industry is greatly different from that of the past. Once a profession available only to golf course superintendents, jobs are now available in many other sectors. A person with formal turfgrass and landscape management training can be found in various types of facilities such as managing athletic fields, landscape and lawn care business owners, nursery and greenhouse operations management, owning/operating a sod farm, and many areas of academia. Government agencies, management companies, as well as many in the private sector, all provide excellent employment opportunities for those dedicated to turfgrass and landscape maintenance and culture. Home construction and sales emphasize using more turfgrasses for aesthetics and soil stabilization. They are used on athletic fields and playgrounds for safety; thus, the demand for qualified turfgrass and landscape managers in these areas is continually growing.

This option provides career preparation in the skills needed to design, build and manage ornamental and natural landscapes - ideal for those with an artistic flair who also enjoy working outdoors and who derive satisfaction from building and completing projects. Students in this option learn to measure, analyze, draw and install landscapes and hands-on activities are provided whenever possible.

Facilities

All facilities of the campus, including the library, university center, student activity center and recreational complex are available for student use. This includes the nationally award winning campus grounds. Classrooms and laboratories of the department of Agriculture, Geosciences, and Natural Resources (AGN) are modern and provide an effective learning environment. While in study, students will become familiar with numerous commercial enterprises through field trips, guest lecturers and various media presentations.

UT Martin also has a three acre turfgrass teaching facility equipped with a teaching lab and greenhouses, turfgrass variety trials, 4,500 square foot golf putting green, and an ornamental plant materials nursery. The Rhodes Golf Center acts as a 10-acre outdoor teaching, demonstration, and research lab for golf course and landscape management students. The university also has available a 650 acre AGN Field Teaching/Demonstration Complex used for research, teaching and demonstration.
## Course Requirements: BS in Agriculture – Plant & Soil Science- Golf Course and Landscape Management Option (1123)

### 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 (16 hours)
- **BIOL 130** Foundations: Ecology, Evolution, & Diversity __/4
- **BIOL 140** Foundations: Cell & Molecular __/4

### Chemistry (8 hours) Select a sequence of two
- **CHEM 111** Intro: General & Inorganic __/4
- **&CHEM 112** Intro: Organic & Bio __/4
- or
- **CHEM 121** General Chemistry __/4
- **&CHEM 122** General Chemistry __/4

### Communications (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
- **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) Select one
- **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
- **MATH 251** Calculus I __/3

### Social Dynamics & Behavioral Science (6 hours)
- **ECON 201** Principles of Macroeconomics __/3
- **ECON 202** Principles of Microeconomics __/3

### Plant & Soil Science Core (10 hours)
- **AGET 110** Introduction to Agricultural Engineering __/3
- **PLSC 110** Introductory Plant & Soil Science __/3
- **SOIL 210** Soil Science __/4

### Golf Course & Landscape Management Option (49 hours)
- **AGET 119** Introduction to Agricultural Engineering Lab __/1
- **AGET 220** Surveying & Soil & Water Conservation __/3
- **AGET 420** Irrigation __/3
- **AGRI 270** Intro: Geospatial Technology __/3
- **BOT 421** Plant Physiology __/3
- **PLSC 119** Intro: Plant & Soil Science Lab __/1
- **PLSC 234** Lawn & Turf Management __/3
- **PLSC 242** Fundamentals of Horticulture __/3
- **PLSC 321** Landscape Management __/3
- **PLSC 322** Intro: Plant Pathology __/3
- **PLSC 333** Weed Science __/3
- **PLSC 363** Plant Identification & Propagation __/3
- **PLSC 420** Supervised Field Experience in Plant Science __/4
- **PLSC 431** Principles of Plant Breeding __/3
- **PLSC 462** Environmental Landscape Design __/3
- **PLSC 471** Golf Course Management __/3
- **SOIL 412** Soil Chemistry & Fertility __/3
- **ZOOI 325** General Entomology __/4
- or **PLSC 310** Integrated Pest Management __/4

### Upper Division Science Electives (3 hours) Select One
- **AGRI 441** Interpretation of Agricultural Research __/3
- **BOT 303** Plant Taxonomy __/3
- **PLSC 341** Dendrology & Forest Ecology __/3
- **PLSC 342** Fruit & Vegetable Production __/3
- **SOIL 315** Soil & Water Conservation __/3
- **Golf Electives (1 course) Select One**
- **AGEC 271** Farm Management __/3
- **CSCI 201** Introduction to Computer Applications __/3
- **MGT 300** Management & Behavior __/3
- **MGT 307** Small & Family Operated Businesses __/3
- **SPAN 111** Elementary Spanish __/4
- **SPAN 115** Transitional Spanish __/4

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*Catalog 2017-2018*
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