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 Refurbishing/renovating historic and outdated golf courses continues to be a popular trend.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.

Dr. Wes Totten, Chair
Department of Agriculture, Geosciences, and Natural Resources
257 Brehm Hall, Martin, TN 38238
Martin, TN 38238
Phone: 731-881-7262; Email: wtotten@utm.edu
### 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)
- **BIO 110** Intro to Cell Biology and Genetics ___/4
- **BIO 120** Intro Plant and Animal Biology ___/4
- **BIOL 130** Foundations: Ecology, Evolution, & Diversity ___/4
- **BIOL 140** Foundations: Cell & Molecular (Must earn a C or better in 130 and 140) ___/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 110** or **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
- **JAPN 250** Japan Today: People and Culture ___/3
- **RLST 201** Intro to Religious Studies ___/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 & Behavioral Sciences (6 hours)
- **AGRI 295** International Food & Fiber Systems ___/3
- **ANSC 270** Animal Welfare & Ethics ___/3
- **ECON 201** Principles of Macroeconomics ___/3
- **ECON 202** Principles of Microeconomics ___/3
- **ENGR 100** Society & Technology ___/3
- **GEOG 151** Intro: Regional Geography ___/3
- **GEOG 152** Intro: Regional Geography ___/3
- **GEOG 202** Intro: Cultural Geography ___/3
- **HLTH 111** Principles & Concepts in Personal Health ___/3
- **IDST 201** Intro: Women's Studies ___/3
- **NRM 101** Wildlife, Conservation, & Environment Issues ___/3
- **NRM 250** Global Perspectives in Natural Resource ___/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

### Course Requirements for 2018 – 2019
- **COMM 356** English, Comm, Writing (3 hours)
- **Soil Science Electives**
  - **PLSC 205** 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 462** Environmental Landscape Design ___/3
  - **PLSC 471** Golf Course Management ___/3
  - **SOIL 412** Soil Chemistry & Fertility ___/3
  - **ZOOL 325** General Entomology ___/3
  - **or PLSC 310** Integrated Pest Management ___/4

### Golf Course & Landscape Management Electives
- **ENGL 325** Technical Communications ___/3
- **COMM 356** Communications in Professional Environments ___/3

### 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 365** Greenhouse Crops and Management ___/3
- **PLSC 431** Principles of Plant Breeding ___/3
- **PLSC 342** Fruit & Vegetable Production ___/3
- **PLSC 442** Crop Adaptation and Ecology ___/3
- **SOIL 315** Soil & Water Conservation ___/3
B.S. in Agriculture  
Plant and Soil Science – Golf Course and Landscape Management  
2018-2019

<table>
<thead>
<tr>
<th>Freshman Fall</th>
<th></th>
<th>Freshman Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Studies 101</td>
<td>2</td>
<td>English 112</td>
</tr>
<tr>
<td>English 111</td>
<td>3</td>
<td>Biology 110 or 140</td>
</tr>
<tr>
<td>Math 140</td>
<td>3</td>
<td>AGET 110</td>
</tr>
<tr>
<td>Biology 120 or 130</td>
<td>4</td>
<td>PLSC 110</td>
</tr>
<tr>
<td>Fine Arts Elective</td>
<td>3</td>
<td>AGET 119</td>
</tr>
<tr>
<td>PLSC 119</td>
<td>1</td>
<td>Semester Total</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sophomore Fall</th>
<th></th>
<th>Sophomore Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 210</td>
<td>3</td>
<td>SOIL 210</td>
</tr>
<tr>
<td>COMM 230</td>
<td>3</td>
<td>Social Dynamics Elective</td>
</tr>
<tr>
<td>CHEM 111 or 121</td>
<td>4</td>
<td>CHEM 112 or 122</td>
</tr>
<tr>
<td>Social Dynamics Elective</td>
<td>3</td>
<td>AGRI 270</td>
</tr>
<tr>
<td>AGET 220</td>
<td>3</td>
<td>Humanities Elective</td>
</tr>
<tr>
<td>Semester Total</td>
<td>16</td>
<td>Semester Total</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Junior Fall</th>
<th></th>
<th>Junior Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLSC 234</td>
<td>3</td>
<td>PLSC 242</td>
</tr>
<tr>
<td>PLSC 333</td>
<td>3</td>
<td>PLSC 321</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
<td>ECW Elective</td>
</tr>
<tr>
<td>PLSC 363</td>
<td>3</td>
<td>PLSC 322</td>
</tr>
<tr>
<td>UD Science Elective</td>
<td>3</td>
<td>Humanities Elective</td>
</tr>
<tr>
<td>Semester Total</td>
<td>15</td>
<td>Semester Total</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior Fall</th>
<th></th>
<th>Senior Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOOL 325 or PLSC 310</td>
<td>4</td>
<td>BOT 421 or 431 or PLSC 442</td>
</tr>
<tr>
<td>PLSC 205</td>
<td>3</td>
<td>AGET 420</td>
</tr>
<tr>
<td>PLSC 420</td>
<td>4</td>
<td>SOIL 412</td>
</tr>
<tr>
<td>PLSC 462</td>
<td>3</td>
<td>PLSC 471</td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>3</td>
<td>Humanities Elective</td>
</tr>
<tr>
<td>Semester Total</td>
<td>14</td>
<td>Semester Total</td>
</tr>
</tbody>
</table>