TURFGRASS SCIENCE - BS

Curriculum in Turfgrass Science is administered by the Department of Soil and Crop Sciences. Students following this curriculum develop and utilize basic scientific knowledge to understand the most fundamental resources—turfgrass, soils, and water—and the interaction of these resources in different environmental settings. The required courses provide an essential foundation, while the elective courses (i.e., ornamental horticulture, plant protection, business, landscape architecture) can be selected to meet the interests, needs and objectives of individual students.

Turfgrass Science prepares graduates for careers in: management—golf courses, athletic fields, public, private or commercial grounds; production agriculture—turfgrass production, or plant breeding; agribusiness—seed sales, turf equipment and supplies, landscape contractor, commercial or home lawn care specialists; education—consulting, extension, or public relations.

Program Requirements

First Year
Fall
SCSC 205 Problem Solving in Plant and Soil Systems 3
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) 1
Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication) 1
Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science) 1
Mathematics (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics) 2

Spring
AGEC 105 Introduction to Agricultural Economics 3
COMM 203 Public Speaking 3
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) 1
Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science) 1
Mathematics (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics) 2

Semester Credit Hours 15

Second Year
Fall
CHEM 119 Fundamentals of Chemistry I 4
Select one of the following: 3
ENTO 201 General Entomology
ENTO 401 Principles of Integrated Pest Management

PLPA 334 Turfgrass Pathology
SCSC 446 Weed Management and Ecology
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) 1
Directed elective 3
General elective 3

Semester Credit Hours 15

Spring
CHEM 222 Elements of Organic and Biological Chemistry or CHEM 227 Organic Chemistry I
HORT 201 Horticultural Science and Practices 3
Select one of the following: 4
BIOL 101 Botany
BIOL 111 Introductory Biology I
CHEM 120 Fundamentals of Chemistry II
GEOL 101 Principles of Geology & GEOL 102 and Principles of Geology Laboratory
PHYS 201 College Physics
Select one of the following: 3
ENTO 201 General Entomology
ENTO 401 Principles of Integrated Pest Management
PLPA 334 Turfgrass Pathology
SCSC 446 Weed Management and Ecology
Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts) 1

Semester Credit Hours 16

Third Year
Fall
SCSC 301 Soil Science 4
SCSC 302 Recreational Turf 3
SCSC 312 Professional Development in Turfgrass 1
Select one of the following: 4
RWFM 313 Vegetation Sampling Methods and Designs in Ecosystems
STAT 201 Elementary Statistical Inference
STAT 302 Statistical Methods
Directed elective 3

Semester Credit Hours 15

Spring
ECCB 205 Fundamentals of Ecology 3
SCSC 309 Water in Soils and Plants 4
SCSC 428 Advanced Turf Ecology and Physiology 3
Directive elective 3
General elective 3

Semester Credit Hours 16

Fourth Year
Fall
MGMT 309 Survey of Management 3
SCSC 429 Turf Management Systems 4
Select one of the following: 5

Semester Credit Hours 15
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<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>SCSC 420</td>
<td>Brazilian Agriculture and Food Production Systems</td>
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<td>SCSC 421</td>
<td>International Agricultural Research Centers - Mexico</td>
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<tr>
<td>SCSC 484</td>
<td>Internship</td>
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<td>SCSC 491</td>
<td>Research</td>
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<td>General elective</td>
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**Semester Credit Hours**  
16

### Spring

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<th>Credit Hours</th>
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<tr>
<td>SCSC 307</td>
<td>Crop Biology and Physiology</td>
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<tr>
<td>SCSC 427</td>
<td>Sports Field Construction</td>
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<td>SCSC 430</td>
<td>Turfgrass Maintenance</td>
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<td>SCSC 481</td>
<td>Senior Seminar</td>
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**Semester Credit Hours**  
13

**Total Semester Credit Hours**  
120

1. Graduation requirements include a requirement for 3 hours of International and Cultural Diversity (http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/) courses and 3 hours of Cultural Discourse (http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/) courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement. Select in consultation with an academic advisor.

2. Choose from core curriculum courses with a MATH prefix.

3. To be selected from SCSC 300-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/scsc/) courses not counting elsewhere on the degree plan and in consultation with an academic advisor.

4. Statistics course should be selected after consultation with academic advisor.

5. Students will complete an internship, study abroad or independent research experience.