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		**Semester Credit Hours**
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]		3
Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication) [1]		3
Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science) [1]		3
Mathematics (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics) [2]		3
	Semester Credit Hours	**15**
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]		3
Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science) [1]		3
Mathematics (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics) [2]		3
	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]		3
Directed elective [3]		3
General elective		2
	Semester Credit Hours	**15**
Spring		
CHEM 222 or CHEM 227	Elements of Organic and Biological Chemistry or Organic Chemistry I	3
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 & GEOL 102	Principles of Geology 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]		3
	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]		3
RWFM 313	Vegetation Sampling Methods and Designs in Ecosystems	
STAT 201	Elementary Statistical Inference	
STAT 302	Statistical Methods	
Directed elective [3]		3
	Semester Credit Hours	**14**
Spring		
ECCB 205 or SCSC 444	Fundamentals of Ecology or Forage Ecology and Management	3
SCSC 309	Water in Soils and Plants	4
SCSC 428	Advanced Turf Ecology and Physiology	3
Directive elective [3]		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]		3
SCSC 420	Brazilian Agriculture and Food Production Systems	
SCSC 421	International Agricultural Research Centers - Mexico	
SCSC 484	Internship	
SCSC 491	Research	
General elective		6
	Semester Credit Hours	**16**
Spring		
SCSC 307	Crop Biology and Physiology	4
SCSC 427	Sports Field Construction	4
SCSC 430	Turfgrass Maintenance	3
SCSC 481	Senior Seminar	2
	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.