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

ENTO 401

First Year		
Fall		Semester Credit Hours
SCSC 205	Problem Solving in Plant and Soil Systems	3
American histo general-informa history) ¹	3	
Communication general-informa #communication	3	
Government/Poundergraduate/curriculum/#go	3	
Mathematics (h general-informa #mathematics)	3	
	Semester Credit Hours	15
Spring		
AGEC 105	Introduction to Agricultural Economics	3
COMM 203	Public Speaking	3
	ry (http://catalog.tamu.edu/undergraduate/ ation/university-core-curriculum/#american-	3
Government/Poundergraduate/curriculum/#go	3	
•	http://catalog.tamu.edu/undergraduate/ ation/university-core-curriculum/ 2	3
	Semester Credit Hours	15
Second Year Fall		
CHEM 119	Fundamentals of Chemistry I	4
Select one of the following:		
ENTO 201	General Entomology	

Principles of Integrated Pest Management

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 3 General elective 5 Semester Credit Hours 15 Spring HORT 201 Horticultural Science and Practices 3 Select one of the following: 3-4 CHEM 222 Elements of Organic and Biological Chemistry CHEM 227 Organic Chemistry I CHEM 257 Organic Chemistry I - Structure and Function 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 & GEOL 102 and Principles of Geology ENTO 201 General Entomology ENTO 201 General Entomology ENTO 201 General Entomology ENTO 201 General Entomology 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 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 3 Spring ECCB 205 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 General elective 4 Semester Credit Hours 3 Spring ECCB 205 Fundamentals of Ecology 3 Or SCSC 444 or Forage Ecology and Physiology 3 General elective 4 Semester Credit Hours 16	PLPA 334	Turfgrass Pathology			
Language, philosophy and culture (http://catalog.tamu.edu/ undergraduate/general-information/university-core- curriculum/#language-philosophy-culture) 1 Directed elective 3 General elective 1-2 Semester Credit Hours 15 Spring HORT 201 Horticultural Science and Practices 3 Select one of the following: 3-4 CHEM 222 Elements of Organic and Biological Chemistry CHEM 227 Organic Chemistry I CHEM 257 Organic Chemistry I CHEM 250 Pundamentals of Chemistry II GEOL 101 Botany 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 B GEOL 102 and Principles of Geology ENTO 201 General Entomology 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/ 3 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 16 Third Year Fall 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 14 Spring ECCB 205 Fundamentals of Ecology and Physiology 3 Directive elective 3 Semester Credit Hours 3 SCSC 428 Advanced Turf Ecology and Physiology 3 General elective 4 General elective 4 General elective 4 General elective 4		• • • • • • • • • • • • • • • • • • • •			
undergraduate/general-information/university-core- curriculum/#language-philosophy-culture) Directed elective General elective Semester Credit Hours 15 Spring HORT 201 Horticultural Science and Practices 3 Select one of the following: 3-4 CHEM 222 Elements of Organic and Biological Chemistry CHEM 227 Organic Chemistry I CHEM 257 Organic Chemistry I CHEM 101 Botany BIOL 111 Introductory Biology I CHEM 120 Fundamentals of Chemistry II GEOL 101 Principles of Geology 8 GEOL 102 and Principles of Geology 8 GEOL 102 and Principles of Geology Laboratory PHYS 201 College Physics Select one of the following: 8 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/ 3 general-information/university-core-curriculum/#creative-arts) Semester Credit Hours	Language, philoso		3		
Directed elective 3 General elective 1-2 Semester Credit Hours 15 Spring HORT 201 Horticultural Science and Practices 3 Select one of the following: 3-4 CHEM 222 Elements of Organic and Biological Chemistry CHEM 227 Organic Chemistry I CHEM 257 Organic Chemistry I CHEM 250 Organic Chemistry I CHEM 250 Organic Chemistry I CHEM 251 Organic Chemistry I CHEM 252 Elements of Organic and Biological Chemistry I CHEM 251 Organic Chemistry I CHEM 252 Organic Chemistry I CHEM 252 Organic Chemistry I CHEM 252 Elements of Chemistry II CHEM 120 Fundamentals of Chemistry II CHEM 120 Fundamentals of Chemistry II CHEM 120 Fundamentals of Geology & GEOL 101 Principles of Geology & GEOL 102 and Principles of Geology A GEOL 102 and Principles of Geology ENTO 201 General Entomology ENTO 201 General Entomology ENTO 401 Principles of Integrated Pest Management PLPA 334 Turfgrass Pathology 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 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 Fundamentals of Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4	undergraduate/ge	neral-information/university-core-			
General elective 1-2 Semester Credit Hours 15 Spring HORT 201 Horticultural Science and Practices 3 Select one of the following: 3-4 CHEM 222 Elements of Organic and Biological Chemistry CHEM 227 Organic Chemistry I CHEM 257 Organic Chemistry I 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 BORD 102 and Principles of Geology CERTO 201 General Entomology 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) 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 Semester Credit Hours 14 Spring ECCB 205 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 General elective 4 SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 General elective 4					
Semester Credit Hours Spring HORT 201 Horticultural Science and Practices 3 Select one of the following: 3-4 CHEM 222 Elements of Organic and Biological Chemistry CHEM 227 Organic Chemistry I CHEM 257 Organic Chemistry I CHEM 258 Organic Chemistry I CHEM 259 Organic Chemistry I CHEM 250 Organic Chemistry II CHEM 250 Fundamentals of Chemistry II CHEM 120 Fundamentals of Chemistry II CHEM 120 Fundamentals of Geology & GEOL 101 Principles of Geology & GEOL 102 and Principles of Geology A GEOL 102 and Principles of Geology CHEM 201 General Entomology 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/ 3 general-information/university-core-curriculum/#creative- arts) Semester Credit Hours 16 Third Year Fall SCSC 301 Soil Science 4 SCSC 302 Recreational Turf 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 Fundamentals of Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 General elective 4 SCSC 309 Water in Soils and Plants 3 General elective 4	Directed elective	3	3		
Spring HORT 201 Horticultural Science and Practices 3 Select one of the following: 3-4 CHEM 222 Elements of Organic and Biological Chemistry CHEM 227 Organic Chemistry I CHEM 257 Organic Chemistry I CHEM 257 Organic Chemistry I- Structure and Function 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 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/ 3 general-information/university-core-curriculum/#creative-arts) 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 3 Semester Credit Hours 3 Spring ECCB 205 Fundamentals of Ecology or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 General elective 4 SCSC 428 Advanced Turf Ecology and Physiology 3 General elective 4	General elective		1-2		
Select one of the following: 3-4 CHEM 222 Elements of Organic and Biological Chemistry CHEM 227 Organic Chemistry I CHEM 227 Organic Chemistry I CHEM 257 Organic Chemistry I BIOL 101 Botany 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 BY 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) 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 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 4 GEOL 101		Semester Credit Hours	15		
Select one of the following: CHEM 222 Elements of Organic and Biological Chemistry CHEM 227 Organic Chemistry I CHEM 257 Organic Chemistry I - Structure and Function Select one of the following: 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: 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/ 3 general-information/university-core-curriculum/#creative-arts) Semester Credit Hours 16 Third Year Fall SCSC 301 Soil Science 4 SCSC 302 Recreational Turf Select one of the following: 4 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 3 Semest					
CHEM 222 Elements of Organic and Biological Chemistry CHEM 227 Organic Chemistry I CHEM 257 Organic Chemistry I - Structure and Function Select one of the following: 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: 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/ 3 general-information/university-core-curriculum/#creative-arts) Semester Credit Hours 16 Third Year Fall SCSC 302 Recreational Turf Select one of the following: SCSC 312 Professional Development in Turfgrass 1 Select one of the following: SEAT 201 Elementary Statistical Inference STAT 302 Statistical Methods Directed elective 3 Semester Credit Hours 14 Spring ECCB 205 Fundamentals of Ecology or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 General elective 3 General elective 4 Advanced Turf Ecology and Physiology 3 General elective 4 Advanced Turf Ecology and Physiology 3 General elective					
Chemistry CHEM 227 Organic Chemistry I CHEM 257 Organic Chemistry I - Structure and Function Select one of the following: 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: Select one of the following: Select one of the following: SENTO 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) 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 SELECT ONE OF STATE 201 Elementary Statistical Inference STAT 201 Elementary Statistical Inference STAT 302 Statistical Methods Directed elective 3 Semester Credit Hours 3 Sem		•	3-4		
CHEM 257 Organic Chemistry I - Structure and Function Select one of the following: 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: 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/ arts) Semester Credit Hours 16 Third Year Fall SCSC 301 Soil Science 4 SCSC 302 Recreational Turf Select one of the following: Select one of the following: A RWFM 313 Vegetation Sampling Methods and Designs in Ecosystems STAT 201 Elementary Statistical Inference STAT 302 Statistical Methods Directed elective Semester Credit Hours 14 Spring ECCB 205 Fundamentals of Ecology or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants SCSC 309 Water in Soils and Plants SCSC 428 Advanced Turf Ecology and Physiology 3 General elective 4 General elective 5 General elective 5 General elective 7 General elective 7 Geology General elective 7 General elective 7 General elective 7 Geology General elective 7 General elective 7 General elective 7 Geology G	CHEM 222				
Select one of the following: 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 REDI 102 and Principles of Geology REDI 103 General Entomology 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/ 3 general-information/university-core-curricullum/#creative-arts) Semester Credit Hours 16 Third Year Fall SCSC 301 Soil Science 4 SCSC 302 Recreational Turf Select one of the following: RWFM 313 Vegetation Sampling Methods and Designs in Ecosystems STAT 201 Elementary Statistical Inference STAT 302 Statistical Methods Directed elective Semester Credit Hours 3 Semester Credit Hours 3 Semester Cr	CHEM 227	Organic Chemistry I			
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/ 3 general-information/university-core-curriculum/#creative-arts) 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 Fundamentals of Ecology or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 General elective 4	CHEM 257				
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/ 3 general-information/university-core-curriculum/#creative-arts) 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 Fundamentals of Ecology or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 General elective 4	Select one of the	following:	4		
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/ 3 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 14 Spring ECCB 205 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 General elective 4					
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/ 3 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 14 Spring ECCB 205 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 General elective 4	BIOL 111	Introductory Biology I			
& 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) 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 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4	CHEM 120	• • • • • • • • • • • • • • • • • • • •			
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/ 3 general-information/university-core-curriculum/#creative-arts) 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 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4	GEOL 101	Principles of Geology			
Select one of the following: 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) 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: RWFM 313 Vegetation Sampling Methods and Designs in Ecosystems STAT 201 Elementary Statistical Inference STAT 302 Statistical Methods Directed elective Semester Credit Hours 14 Spring ECCB 205 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 General elective 4	& GEOL 102	and Principles of Geology Laboratory			
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) 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: RWFM 313 Vegetation Sampling Methods and Designs in Ecosystems STAT 201 Elementary Statistical Inference STAT 302 Statistical Methods Directed elective Semester Credit Hours 14 Spring ECCB 205 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 General elective 4	PHYS 201	College Physics			
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) 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: RWFM 313 Vegetation Sampling Methods and Designs in Ecosystems STAT 201 Elementary Statistical Inference STAT 302 Statistical Methods Directed elective Semester Credit Hours 14 Spring ECCB 205 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 General elective	Select one of the	following:	3		
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 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 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4	ENTO 201	General Entomology			
Creative arts (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/#creative- arts) 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: RWFM 313 Vegetation Sampling Methods and Designs in Ecosystems STAT 201 Elementary Statistical Inference STAT 302 Statistical Methods Directed elective Semester Credit Hours 14 Spring ECCB 205 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 4 Semester Credit Ecology 3 General elective 4	ENTO 401	Principles of Integrated Pest Management			
Creative arts (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/#creative- arts) Semester Credit Hours 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: RWFM 313 Vegetation Sampling Methods and Designs in Ecosystems STAT 201 Elementary Statistical Inference STAT 302 Statistical Methods Directed elective Spring ECCB 205 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective General elective 4	PLPA 334	Turfgrass Pathology			
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 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 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4	SCSC 446	Weed Management and Ecology			
Semester Credit Hours 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 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4	general-information		3		
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 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4	·	Semester Credit Hours	16		
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 Fundamentals of Ecology or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4	Third Year				
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 Fundamentals of Ecology or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 General elective 4	Fall				
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 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 General elective 4	SCSC 301	Soil Science	4		
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 14 Spring ECCB 205 Fundamentals of Ecology or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 General elective 4	SCSC 302	Recreational Turf	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 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4	SCSC 312	Professional Development in Turfgrass	1		
in Ecosystems STAT 201 Elementary Statistical Inference STAT 302 Statistical Methods Directed elective 3 3 Semester Credit Hours 14 Spring ECCB 205 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4					
STAT 201 Elementary Statistical Inference STAT 302 Statistical Methods Directed elective 3 3 Semester Credit Hours 14 Spring ECCB 205 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4	RWFM 313				
STAT 302 Statistical Methods Directed elective 3 3 Semester Credit Hours 14 Spring ECCB 205 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4	STAT 201	•			
Semester Credit Hours 14 Spring ECCB 205 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4	STAT 302	•			
Semester Credit Hours 14 Spring ECCB 205 Fundamentals of Ecology 3 or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4	Directed elective 3	3	3		
ECCB 205 Fundamentals of Ecology or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4			14		
or SCSC 444 or Forage Ecology and Management SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4	Spring				
SCSC 309 Water in Soils and Plants 3 SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4	ECCB 205		3		
SCSC 428 Advanced Turf Ecology and Physiology 3 Directive elective 3 3 General elective 4			3		
Directive elective ³ 3 General elective 4					
	Directive elective	3			
Semester Credit Hours 16	General elective		4		
		Semester Credit Hours	16		

Fourth Year

Fall

	Total Semester Credit Hours	120
	Semester Credit Hours	13
SCSC 481	Senior Seminar	2
SCSC 430	Turfgrass Maintenance	3
SCSC 427	Sports Field Construction	4
SCSC 307	Crop Biology and Physiology	4
Spring		
	Semester Credit Hours	16
General elective		6
SCSC 491	Research	
SCSC 484	Internship	
SCSC 421	International Agricultural Research Centers - Mexico	
SCSC 420	Brazilian Agriculture and Food Production Systems	
Select one of the following: ⁵		
SCSC 429	Turf Management Systems	4
MGMT 309	Survey of Management	3

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.

Choose from Core Curriculum (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/) courses with a MATH prefix.

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.

Statistics course should be selected after consultation with academic advisor.

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