

PLANT AND ENVIRONMENTAL SOIL SCIENCE - BS, CROPS EMPHASIS

Program Requirements

First Year

	Semester Credit Hours
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	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

	Semester Credit Hours
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 301 Plant 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
Semester Credit Hours	13

Spring

CHEM 222 Elements of Organic and Biological Chemistry	3
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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 301 Plant 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

	Semester Credit Hours
Fall	
SCSC 301 Soil Science	4
SCSC 307 Crop Biology and Physiology	4
Select one of the following: ⁴	3
ESSM 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

	Semester Credit Hours
Spring	
REN205 Fundamentals of Ecology or SCSC 444 or Forage Ecology and Management	3
SCSC 304 Plant Breeding and Genetics	3
SCSC 309 Water in Soils and Plants	4
Directed elective ³	3
General elective	3
Semester Credit Hours	16

Fourth Year

	Semester Credit Hours
Fall	
SCSC 311 Principles of Crop Production	3
SCSC 402 Crop Stress Management	4
Select from 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 410 International Agricultural Systems	3
SCSC 441 Advances in Agronomic Sciences	3
SCSC 481 Senior Seminar	2

General elective	7
Semester Credit Hours	15
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 201 and SCSC 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/scsc/>) level courses not already required on the degree plan and selected in consultation with an academic advisor.
- ⁴ Statistics course should be selected in consultation with an academic advisor.
- ⁵ Students will complete an internship, study abroad or independent research experience.