

# PLANT AND ENVIRONMENTAL SOIL SCIENCE - BS, CROPS EMPHASIS

## Program Requirements

### First Year

		Semester Credit Hours
Spring		
AGEC 105	Introduction to Agricultural Economics	3
COMM 203	Public Speaking	3
	American history ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a> ) <sup>1</sup>	3
	Government/Political science ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science</a> ) <sup>1</sup>	3
	Mathematics ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics</a> ) <sup>2</sup>	3
<b>Semester Credit Hours</b>		<b>15</b>

### Fall

SCSC 205	Problem Solving in Plant and Soil Systems	3
	American history ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a> ) <sup>1</sup>	3
	Communication ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication</a> ) <sup>1</sup>	3
	Government/Political science ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science</a> ) <sup>1</sup>	3
	Mathematics ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics</a> ) <sup>2</sup>	3
<b>Semester Credit Hours</b>		<b>15</b>

### Second Year

Spring		
CHEM 222 or CHEM 227	Elements of Organic and Biological Chemistry (Select one of the following) 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 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 ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts</a> ) <sup>1</sup>	3

**Semester Credit Hours 16**

### 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 ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture</a> ) <sup>1</sup>	3
	Directed elective <sup>3</sup>	3

**Semester Credit Hours 13**

### Third Year

Spring		
ECCB 205 or SCSC 444	Fundamentals of Ecology or Forage Ecology and Management	3
SCSC 304	Plant Breeding and Genetics	3
SCSC 309	Water in Soils and Plants	4
	Directed elective <sup>3</sup>	3
	General elective	3

**Semester Credit Hours 16**

### Fall

SCSC 301	Soil Science	4
SCSC 307	Crop Biology and Physiology	4
	Select one of the following: <sup>4</sup>	3
	RWFM 313 Vegetation Sampling Methods and Designs in Ecosystems	
	STAT 201 Elementary Statistical Inference	
	STAT 302 Statistical Methods	
	Directed elective <sup>3</sup>	3

**Semester Credit Hours 14**

### Fourth Year

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**

### Fall

SCSC 311	Principles of Crop Production	3
SCSC 402	Crop Stress Management	4
	Select from the following: <sup>5</sup>	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
<b>Semester Credit Hours</b>		<b>16</b>
<b>Total Semester Credit Hours</b>		<b>120</b>

<sup>1</sup> 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.

<sup>2</sup> Choose from core curriculum courses with a MATH prefix.

<sup>3</sup> 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.

<sup>4</sup> Statistics course should be selected in consultation with an academic advisor.

<sup>5</sup> Students will complete an internship, study abroad or independent research experience.