

# BACHELOR OF SCIENCE, MAJOR IN PLANT AND SOIL SCIENCES

The Plant and Soil Sciences curriculum provides an educational background to those interested in employment in fields related to production, marketing and/or management of horticultural or agronomic crops; landscape design, installation, and maintenance; and other related businesses. Employment opportunities include, but are not limited to, nursery management, greenhouse plant production, turf management, landscape design and maintenance, floral industry, field crop production or consulting, natural resource conservation programs, chemical and seed production and sales, agricultural extension, and research/teaching.

Code	Title	Hours
<b>Bachelor of Science, Major in Plant and Soil Sciences</b>		
Core Curriculum ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/</a> )		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) <sup>1</sup>		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) <sup>2</sup>		4
<b>Degree Specific Requirements</b>		
ACOM 3360 or ENGL 3330	Communication Skills for Agriculturists Intro to Technical Writing	3
AGRI 1309 or CSTE 1330	Computers in Agriculture Introduction to Computers	3
CHEM 1406	Inorganic & Envir Chemistry <sup>1</sup>	4
CHEM 1407	Intro Organic and Biochemistry <sup>1</sup>	4
COMS 1361 or COMS 2382 or AGRI 4388	Public Speaking <sup>2</sup> Comm. for Bus. & Professions Prin of Ag Leadership/Comm Dev	3
MATH or STAT Elective		3
<b>Major: Foundation</b>		
AGRI 1131	Intro to Pro Leadership Skills	1
AGRI 4120	Professional Career Skills	1
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory (Or approved BIOL 4 hour Elective)	4
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
PLSC 2395	Ornamental Plant Identification	3
PLSC 3395	Plant Propagation Techniques	3
PLSC 3440	Soil Science	4
<b>Major: Prescribed Electives</b>		
Select 28 advanced hours from the following:		28
AGRI 4096	Independent Studies	
PLSC 3320	Landscape Plant Materials	
PLSC 3374	Production & Mgt Ornamentals	
PLSC 3379	Turfgrass Culture	
PLSC 3398	Landscape Design I	
PLSC 4320	Fruit & Vegetable Production	
PLSC 4330	Soil Fertility Mgt Fertilizers	
PLSC 4358	Landscape Operations	

PLSC 4368	Landscape Design II	
PLSC 4370	Forage Crops & Pasture Mgmt	
PLSC 4397	Integrated Pest Management	
Select 3 hour elective from: AGBU, AGET, AGRI, ANSC, EQSC, PLSC or WGMT		3
<b>Minor: Required<sup>3</sup></b>		
Minor		12
Minor Advanced Hours		6
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> CHEM 1406 and CHEM 1407 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific Requirement.

<sup>2</sup> COMS 1361 and COMS 2382 satisfies three hours of Component Area IX and degree specific area. AGRI 4388 does not satisfy this requirement.

<sup>3</sup> The following minors cannot be paired with this degree program: Minor in Early Childhood Education and Minor in Plant and Soil Sciences.

### Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

### First Year

Fall	Hours	Spring	Hours
Component Area I ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai</a> )		3 Component Area I ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai</a> )	3
Component Area II ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaii">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaii</a> )		3 Component Area VI ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi</a> )	3
Component Area VI ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi</a> )		3 Component Area VII ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii</a> )	3
AGRI 1131		1 AGRI 1309 or CSTE 1330	3
PLSC 1307 & PLSC 1107		4 ANSC 1319 & ANSC 1119 <sup>1</sup>	4
		<b>14</b>	<b>16</b>

### Second Year

Fall	Hours	Spring	Hours
Component Area V ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav</a> )		3 Component Area VII ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii</a> )	3
Component Area IV ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaii">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaii</a> )		3 Component Area VIII ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii</a> )	3
CHEM 1406 <sup>2</sup>		4 CHEM 1407 <sup>2</sup>	4
MATH or STAT Elective		3 Minor <sup>4</sup>	3
PLSC 2395		3 PLSC 3395	3
		<b>16</b>	<b>16</b>

**Third Year**

Fall	Hours	Spring	Hours
Component Area IX ( <a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix">http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix</a> )		1 Minor <sup>4</sup>	6
ACOM 3360 or ENGL 3330		3 Major: Prescribed Electives <sup>5</sup>	9
COMS 1361, 2382, or AGRI 4388 <sup>3</sup>		3	
PLSC 3440		4	
Major: Prescribed Electives <sup>5</sup>		3	
		<b>14</b>	<b>15</b>

**Fourth Year**

Fall	Hours	Spring	Hours
AGRI Elective		3 AGRI 4120	1
Minor Advanced <sup>4</sup>		6 Minor <sup>4</sup>	3
Major: Prescribed Electives <sup>5</sup>		6 Major: Prescribed Electives <sup>5</sup>	10
		<b>15</b>	<b>14</b>

**Total Hours: 120**<sup>1</sup> Or an approved BIOL four semester credit hour elective.<sup>2</sup> CHEM 1406 and CHEM 1407 satisfy the Component Area III (Science) requirement and the Degree Specific Requirement.<sup>3</sup> COMS 1361 and COMS 2382 satisfies three hours of Component Area IX and degree specific area. AGRI 4388 does not satisfy this requirement.<sup>4</sup> The following minors cannot be paired with this degree program: Minor in Early Childhood Education and Minor in Plant and Soil Sciences.<sup>5</sup> See, Prescribed Electives course list below.

Code	Title	Hours
<b>Major: Prescribed Electives<sup>5</sup></b>		
Select 28 advanced hours from the following:		
AGRI 4096	Independent Studies	
PLSC 3320	Landscape Plant Materials	
PLSC 3374	Production & Mgt Ornamentals	
PLSC 3379	Turfgrass Culture	
PLSC 3398	Landscape Design I	
PLSC 4320	Fruit & Vegetable Production	
PLSC 4330	Soil Fertility Mgt Fertilizers	
PLSC 4358	Landscape Operations	
PLSC 4370	Forage Crops & Pasture Mgmt	
PLSC 4397	Integrated Pest Management	

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Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

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The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Plant and Soil Sciences is designed to provide graduates with the following marketable skills:

- Recognize soil characteristics for optimum plant growth.
- Evaluate plants of importance in our society and how those plants are utilized.

- Analyze major insect, disease and weed pests, and control strategies.
- Apply independent and team-working skills to accomplish objectives and meet organizational goals.
- Demonstrate a work ethic and soft skills that are desirable of an employee.
- Use professional oral and written communication skills for the transfer of technologically-rich knowledge.