

# HORTICULTURE - BS

## Program Requirements

### First Year

Fall		Semester Credit Hours
BIOL 101 or BIOL 111	Botany or Introductory Biology I	4
HORT 281	Professions in Horticulture	1
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> )		3
Mathematics (MATH or STAT prefix required) ( <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> )		3
Social and behavioral sciences ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences</a> )		3
<b>Semester Credit Hours</b>		<b>14</b>

### Spring

HORT 201	Horticultural Science and Practices	3
HORT 202	Horticultural Science and Practices Laboratory	1
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> )		3
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
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> )		3
Mathematics (MATH or STAT prefix required) ( <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> )		3
<b>Semester Credit Hours</b>		<b>16</b>

### Second Year

Fall		Semester Credit Hours
CHEM 119	Fundamentals of Chemistry I	4
ECCB 205	Fundamentals of Ecology	3
ENTO 201	General Entomology	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> )		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> )		3
<b>Semester Credit Hours</b>		<b>16</b>

### Spring

CHEM 222 or CHEM 227	Elements of Organic and Biological Chemistry or Organic Chemistry I	3
HORT 326	Plant Propagation	3
Select one of the following:		3

GENE 310	Principles of Heredity	
GENE 320/ BIMS 320	Biomedical Genetics	
HORT 404	Plant Breeding	
SCSC 304	Plant Breeding and Genetics	
Directed electives <sup>1,2</sup>		6

### Semester Credit Hours

15

### Third Year

#### Fall

HORT 315	Issues in Horticulture <sup>3</sup>	3
SCSC 301	Soil Science	4
Horticultural Crop Production		3
Select one of the following:		
HORT 319	Fruit and Nut Production	
HORT 325	Vegetable Crop Production	
HORT 418	Nut Culture	
HORT 419	Viticulture and Small Fruit Culture	
HORT 420	Concepts of Wine Production	
HORT 423	Tropical Horticulture	
HORT 431	Nursery Production and Management	

Plant Identification/Characterization		3
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Select one of the following:

HORT 306	Trees and Shrubs for Sustainable Built Environments	
HORT 308	Plants for Sustainable Landscapes	
Directed electives <sup>1,2</sup>		3

### Semester Credit Hours

16

#### Spring

HORT 313	Introduction to Plant Physiology	3
PLPA 301	Plant Pathology	3
PLPA 303	Plant Pathology Laboratory	1
Horticulture Crop Production		3
Select one of the following:		
HORT 425	Horticulture Landscape Installation	
HORT 426	International Floriculture Marketing	
HORT 428	Greenhouse Technology & Sustainable Crop Production Systems	
HORT 431	Nursery Production and Management	
HORT 460	Landscape Estimating, Bidding, and Operations	
Directed electives <sup>1,2</sup>		6

### Semester Credit Hours

16

### Fourth Year

#### Fall

HORT 481	Seminar <sup>4</sup>	2
Horticulture Elective		3
HORT 300-499 ( <a href="http://catalog.tamu.edu/undergraduate/course-descriptions/hort/">http://catalog.tamu.edu/undergraduate/course-descriptions/hort/</a> ) <sup>5</sup>		
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> )		3
Directed electives <sup>1,2</sup>		6

### Semester Credit Hours

14

**Spring**

High Impact Learning	1
Select one of the following:	
HORT 400 Field Studies in Horticulture	
HORT 484 Internship	
HORT 485 Directed Studies	
HORT 491 Research	
Horticulture Elective	3
HORT 300-499 ( <a href="http://catalog.tamu.edu/undergraduate/course-descriptions/hort/">http://catalog.tamu.edu/undergraduate/course-descriptions/hort/</a> ) <sup>5</sup>	
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> )	3
Directed electives <sup>1,2</sup>	6
<b>Semester Credit Hours</b>	<b>13</b>
<b>Total Semester Credit Hours</b>	<b>120</b>

<sup>1</sup> The 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 or directed elective can be used to satisfy this requirement. See academic advisor.

<sup>2</sup> Hours to be selected from among the following AGECE 105, AGECE 216, AGECE 223, AGECE 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/agece/>); AGLS 101; AGSM 125, AGSM 201, AGSM 435, AGSM 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/agsm/>); ALEC 370, ALEC 371, ALEC 425, ALEC 478; ALED 339, ALED 340, ALED 341, ALED 344, ALED 426, ALED 440, ALED 441, ALED 494; ANSC 307, ANSC 487/FSTC 487; ATMO 201; BESC 201, BESC 204, BESC 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/agsm/>); BICH 410, BICH 411; BIOL 112, BIOL 113, BIOL 206, BIOL 213, BIOL 401, BIOL 451; CHEM 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/chem/>); COMM 203, COMM 205, COMM 210; COSC 253, COSC 354; ECCB 205, ECCB 215, ECCB 351, ECCB 408; ECON 202, ECON 203; ENGL 320; ENTO 201, ENTO 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/ento/>); FINC 409; FSTC 201, FSTC 324, FSTC 470/ANSC 470, FSTC 485; GENE 310, GENE 411/SCSC 411; HMG 201, HMG 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/hmg/>); ISTM 209; MGMT 209, MGMT 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/mgmt/>); MKTG 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/mktg/>); NUTR 300/FSTC 300, NUTR 485; PHIL 314; PHYS 100-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/phys/>); RWFM 322, RWFM 411; SCSC 105, SCSC 205, SCSC 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/scsc/>); SPAN 101, SPAN 102, SPAN 201, SPAN 202, UGST 181, or hours to be selected with approval by the student's academic advisor and the associate department head from 100-400-level courses in ACCT (<http://catalog.tamu.edu/undergraduate/course-descriptions/acct/>), AGCJ (<http://catalog.tamu.edu/undergraduate/course-descriptions/agcj/>), AGECE (<http://catalog.tamu.edu/undergraduate/course-descriptions/agece/>), AGLS (<http://catalog.tamu.edu/undergraduate/course-descriptions/agls/>), ALEC

(<http://catalog.tamu.edu/undergraduate/course-descriptions/alec/>), ANTH (<http://catalog.tamu.edu/undergraduate/course-descriptions/anth/>), ARTS (<http://catalog.tamu.edu/undergraduate/course-descriptions/arts/>), BESC (<http://catalog.tamu.edu/undergraduate/course-descriptions/besc/>), COMM (<http://catalog.tamu.edu/undergraduate/course-descriptions/comm/>), ECCB (<http://catalog.tamu.edu/undergraduate/course-descriptions/eccb/>), ECON (<http://catalog.tamu.edu/undergraduate/course-descriptions/econ/>), ENDS (<http://catalog.tamu.edu/undergraduate/course-descriptions/ends/>), ENTO (<http://catalog.tamu.edu/undergraduate/course-descriptions/ento/>), EPSY (<http://catalog.tamu.edu/undergraduate/course-descriptions/epsy/>), FINC (<http://catalog.tamu.edu/undergraduate/course-descriptions/finc/>), FSTC (<http://catalog.tamu.edu/undergraduate/course-descriptions/fstc/>), GENE (<http://catalog.tamu.edu/undergraduate/course-descriptions/gene/>), GEOG (<http://catalog.tamu.edu/undergraduate/course-descriptions/geog/>), HLTH (<http://catalog.tamu.edu/undergraduate/course-descriptions/hlth/>), HMG (<http://catalog.tamu.edu/undergraduate/course-descriptions/hmg/>), HORT (<http://catalog.tamu.edu/undergraduate/course-descriptions/hort/>), INST (<http://catalog.tamu.edu/undergraduate/course-descriptions/inst/>), ISTM (<http://catalog.tamu.edu/undergraduate/course-descriptions/istm/>), KINE (<http://catalog.tamu.edu/undergraduate/course-descriptions/kine/>), LAND (<http://catalog.tamu.edu/undergraduate/course-descriptions/land/>), MEPS (<http://catalog.tamu.edu/undergraduate/course-descriptions/meps/>), MGMT (<http://catalog.tamu.edu/undergraduate/course-descriptions/mgmt/>), MKTG (<http://catalog.tamu.edu/undergraduate/course-descriptions/mktg/>), NUTR (<http://catalog.tamu.edu/undergraduate/course-descriptions/nutr/>), PBSI (<http://catalog.tamu.edu/undergraduate/course-descriptions/pbsi/>), RWFM (<http://catalog.tamu.edu/undergraduate/course-descriptions/rwfm/>), SCSC (<http://catalog.tamu.edu/undergraduate/course-descriptions/scsc/>), SCMT (<http://catalog.tamu.edu/undergraduate/course-descriptions/scmt/>), SOCI (<http://catalog.tamu.edu/undergraduate/course-descriptions/soci/>), SPAN (<http://catalog.tamu.edu/undergraduate/course-descriptions/span/>), SPED (<http://catalog.tamu.edu/undergraduate/course-descriptions/sped/>), STAT (<http://catalog.tamu.edu/undergraduate/course-descriptions/stat/>).

<sup>3</sup> This course fulfills a writing intensive course requirement.

<sup>4</sup> This course fulfills a communications requirement.

<sup>5</sup> Hours to be selected based on the emphasis area chosen in consultation with the student's academic advisor.