

HORTICULTURE - BS

Program Requirements

First Year

| | | Semester Credit Hours |
|--|-------------------------------|-----------------------------|
| BIOL 101 | Botany | 4 |
| or BIOL 111 | or Introductory Biology I | |
| HORT 281 | Horticulture as a Profession. | 1 |
| Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) | | 3 |
| Mathematics (MATH or STAT prefix required) (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics) | | 3 |
| Social and behavioral sciences (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences) | | 3 |
| Semester Credit Hours | | 14 |

Spring

| | | |
|--|--|----|
| HORT 201 | Horticultural Science and Practices | 3 |
| HORT 202 | Horticultural Science and Practices Laboratory | 1 |
| Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication) | | 3 |
| Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts) ¹ | | 3 |
| Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science) | | 3 |
| Mathematics (MATH or STAT prefix required) (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics) | | 3 |
| Semester Credit Hours | | 16 |

Second Year

| Fall | | |
|--|-----------------------------|----|
| CHEM 119 | Fundamentals of Chemistry I | 4 |
| ENTO 201 | General Entomology | 3 |
| RENH 205 | Fundamentals of Ecology | 3 |
| American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) | | 3 |
| Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science) | | 3 |
| Semester Credit Hours | | 16 |

Spring

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

| | | |
|-----------------------------------|-----------------------------|----|
| GENE 310 | Principles of Heredity | |
| GENE 320/ BIMS 320 | Biomedical Genetics | |
| HORT 404/ GENE 404 | Plant Breeding | |
| SCSC 304 | Plant Breeding and Genetics | |
| Directed electives ^{1,2} | | 6 |
| Semester Credit Hours | | 15 |

Third Year

| Fall | | |
|---------------------------------------|---|----|
| HORT 315 | Issues in Horticulture ³ | 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 |
| Select one of the following: | | |
| HORT 306 | Trees and Shrubs for Sustainable Built Environments | |
| HORT 308 | Plants for Sustainable Landscapes | |
| Directed electives ^{1,2} | | 3 |
| Semester Credit Hours | | 16 |

Spring

| | | |
|-----------------------------------|---|----|
| MEPS 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 | Landscape Maintenance and Construction | |
| 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 ^{1,2} | | 6 |
| Semester Credit Hours | | 16 |

Fourth Year

| Fall | | |
|--|----------------------|---|
| HORT 481 | Seminar ⁴ | 2 |
| Horticulture Elective | | 3 |
| HORT 300-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/hort/) ⁵ | | |
| American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) | | 3 |

| | |
|---|-------------------------------|
| Directed electives ^{1,2} | 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 (http://catalog.tamu.edu/undergraduate/course-descriptions/hort/) ⁵ | |
| Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication) | 3 |
| Directed electives ^{1,2} | 6 |
| Semester Credit Hours | 13 |
| Total Semester Credit Hours | 120 |

¹ 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.

² Hours to be selected from among the following AGEC 105, AGEC 216, AGEC 223, AGEC 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/agec/>); AGLS 101; AGSM 125, AGSM 201, AGSM 435, AGSM 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/agsm/>); ALEC 425; ALED 339, ALED 340, ALED 341, ALED 344, ALED 426, ALED 440, ALED 441, ALED 494; ANSC 307/FSTC 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 254; ECON 202, ECON 203; ENGL 320; ENTO 201, ENTO 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/ento/>); ESSM 351/RENK 405; FINC 201, FINC 409; FRSC 420, FRSC 421; FSTC 201, FSTC 324, FSTC 470/ANSC 470, FSTC 485; GENE 310, GENE 411; 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, NUTR 485; PHIL 314; PHYS 100-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/phys/>); RENR 215, RENR 405/ESSM 351, RENR 410; RPTS 201, RPTS 308, RPTS 370, RPTS 371, RPTS 478, RPTS 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/rpts/>); 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/>), AGEC (<http://catalog.tamu.edu/undergraduate/course-descriptions/agec/>), 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/>), 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/>), ESSM (<http://catalog.tamu.edu/undergraduate/course-descriptions/essm/>), 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/>), 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/>),

PSYC (<http://catalog.tamu.edu/undergraduate/course-descriptions/psyc/>), RENR (<http://catalog.tamu.edu/undergraduate/course-descriptions/rekr/>), RPTS (<http://catalog.tamu.edu/undergraduate/course-descriptions/rpts/>), 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/>), WFSC (<http://catalog.tamu.edu/undergraduate/course-descriptions/wfsc/>).

³ This course fulfills a writing intensive course requirement.

⁴ This course fulfills a communications requirement.

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