Horticulture - BS

This degree is designed to provide students with the knowledge and skills needed for production, management and marketing of horticultural and floriculture crops. This degree also offers students with strong interests in science and/or technology opportunities in research related fields including preparation for graduate studies. Career prospects range from producing specialty herb crops for upscale restaurants, to managing landscape businesses for growing communities, to marketing fruits and vegetables for healthier lifestyles. Many former students are self-employed, owning their own greenhouse, nursery or landscape operation. Others work in upper management of large corporations or travel the world developing future horticultural crops.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td><strong>Horticultural Science Core Courses</strong></td>
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<tr>
<td>HORT 201</td>
<td>Horticultural Science and Practices</td>
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<tr>
<td>HORT 281</td>
<td>Horticulture as a Profession.</td>
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<td>HORT 315</td>
<td>Issues in Horticulture</td>
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<td>HORT 326</td>
<td>Plant Propagation</td>
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<tr>
<td>HORT 481</td>
<td>Seminar</td>
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<td>High Impact Learning</td>
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<tr>
<td></td>
<td>HORT 400 Field Studies in Horticulture</td>
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<td>HORT 484 Internship</td>
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<td>HORT 485 Directed Studies</td>
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<td>HORT 491 Research</td>
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<td>HORT Study Abroad</td>
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<td><strong>Horticultural Crop Production</strong></td>
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<tr>
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<td>HORT 319 Fruit and Nut Production</td>
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<td>HORT 325 Vegetable Crop Production</td>
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<td>HORT 418 Nut Culture</td>
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<td>HORT 419 Viticulture and Small Fruit Culture</td>
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<td>HORT 420 Concepts of Wine Production</td>
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<td>HORT 423 Tropical Horticulture</td>
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<td>HORT 431 Nursery Production and Management</td>
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<td><strong>Horticulture Management and Marketing</strong></td>
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<tr>
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<td>HORT 309 Interior Plants</td>
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<td>HORT 425 Landscape Maintenance and Construction</td>
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<td>HORT 426 International Floriculture Marketing</td>
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<td>HORT 428 Greenhouse Operation and Management</td>
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<td>HORT 431 Nursery Production and Management</td>
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<td><strong>Plant Identification / Characterization</strong></td>
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<tr>
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<td>HORT 306 Trees and Shrubs for Sustainable Built Environments</td>
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<td>HORT 308 Plants for Sustainable Landscapes</td>
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<td>HORT 309 Interior Plants</td>
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<td>Horticulture Elective</td>
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<td>HORT 300 to 499 (<a href="http://catalog.tamu.edu/undergraduate/course-descriptions/hort">http://catalog.tamu.edu/undergraduate/course-descriptions/hort</a>)</td>
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Supporting Field Requirements

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>CHEM 222</td>
<td>Elements of Organic and Biological Chemistry or CHEM 22 or Organic Chemistry I</td>
<td>3</td>
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<td>Select one of the following:</td>
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<tr>
<td></td>
<td>GENE 310 Principles of Heredity</td>
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<tr>
<td></td>
<td>GENE 315 Genetics of Plants</td>
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<td></td>
<td>GENE 320/ BIMS 320 Biomedical Genetics</td>
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<td>ENTO 201 General Entomology</td>
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<td>MEPS 313 Introduction to Plant Physiology</td>
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<td>PLPA 301 Plant Pathology</td>
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<td>PLPA 303 Plant Pathology Laboratory</td>
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<td>SCSC 301 Soil Science</td>
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<td>RENR 205 Fundamentals of Ecology</td>
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<td>Directed electives</td>
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University Core Curriculum

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>BIOL 101</td>
<td>Botany</td>
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<tr>
<td>BIOL 111</td>
<td>Introductory Biology I</td>
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<tr>
<td>BIOL 113</td>
<td>Essentials in Biology</td>
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<tr>
<td>CHEM 101</td>
<td>Fundamentals of Chemistry I</td>
<td>4</td>
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<tr>
<td></td>
<td>&amp; CHEM 111 and Fundamentals of Chemistry Laboratory I</td>
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<tr>
<td>HORT 202</td>
<td>Horticultural Science and Practices Laboratory</td>
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<td>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>)</td>
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<td>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>)</td>
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<td>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>)</td>
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<td>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>)</td>
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<td>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>)</td>
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<td>Mathematics (MATH 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>)</td>
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Social and behavioral science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences)

Total Semester Credit Hours 120

1. This course fulfills a writing intensive course requirement.
2. This course fulfills a communications requirement.
3. Hours to be selected based on the emphasis area chosen in consultation with the student's academic advisor.