CROP SCIENCES: HORTICULTURAL FOOD SYSTEMS, BS

for the degree of Bachelor of Science in Crop Science, Horticultural Food Systems Concentration

### Prescribed Courses including Campus General Education

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Composition I and Speech</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RHET 105</td>
<td>Writing and Research</td>
<td>4</td>
</tr>
<tr>
<td>or equivalent - see College Composition I requirement (3 or 4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CMN 101</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td><strong>Advanced Composition</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select from campus approved list.</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td><strong>Cultural Studies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one course from Western culture, one from non-Western culture, and one from U.S. minority culture from campus approved lists.</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td><strong>Foreign Language</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coursework at or above the third level is required for graduation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Quantitative Reasoning I</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>4-5</td>
<td></td>
</tr>
<tr>
<td>MATH 220</td>
<td>Calculus</td>
<td></td>
</tr>
<tr>
<td>MATH 221</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 234</td>
<td>Calculus for Business I</td>
<td></td>
</tr>
<tr>
<td><strong>Quantitative Reasoning II</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPSC 241</td>
<td>Intro to Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Natural Sciences and Technology</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>See Specific Concentration Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Humanities and the Arts</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select from campus approved list</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td><strong>Social and Behavioral Sciences</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACE 100</td>
<td>Introduction to Applied Microeconomics ¹</td>
<td>3-4</td>
</tr>
<tr>
<td>or ECON 102</td>
<td>Microeconomic Principles</td>
<td></td>
</tr>
<tr>
<td>Select from campus approved list.</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td><strong>ACES required</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACES 101</td>
<td>Contemporary Issues in ACES</td>
<td>2</td>
</tr>
<tr>
<td><strong>Required Concentration</strong></td>
<td></td>
<td>58-79</td>
</tr>
<tr>
<td>Concentration prescribed courses. See specific concentration requirements.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td>126</td>
</tr>
</tbody>
</table>

¹ ACE 100 or ECON 102 are not required for the Biological Sciences Concentration.

### Concentration Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Natural Science and Technology Required</strong></td>
<td></td>
<td>15-16</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 103</td>
<td>and General Chemistry Lab I</td>
<td></td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry II</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 105</td>
<td>and General Chemistry Lab II</td>
<td></td>
</tr>
<tr>
<td>CHEM 232</td>
<td>Elementary Organic Chemistry I</td>
<td></td>
</tr>
<tr>
<td>or CPSC 382</td>
<td>Organic Chem of Biol Processes</td>
<td></td>
</tr>
<tr>
<td>IB 103</td>
<td>Introduction to Plant Biology</td>
<td></td>
</tr>
<tr>
<td><strong>Concentration Required Core Courses:</strong></td>
<td></td>
<td>29</td>
</tr>
<tr>
<td>CPSC 102</td>
<td>Foundational Skills in Crop Sciences</td>
<td></td>
</tr>
</tbody>
</table>

Information listed in this catalog is current as of 07/2022
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPSC 226</td>
<td>Applied Entomology</td>
</tr>
<tr>
<td>CPSC 270</td>
<td>Crop Sci Professional Develpmt</td>
</tr>
<tr>
<td>CPSC 498</td>
<td>Introduction to Horticulture</td>
</tr>
<tr>
<td>HORT 100</td>
<td>Plant Propagation</td>
</tr>
<tr>
<td>HORT 240</td>
<td>Vegetable Crop Production</td>
</tr>
<tr>
<td>HORT 361</td>
<td>Small Fruit Production</td>
</tr>
<tr>
<td>HORT 362</td>
<td>Tree Fruit Production</td>
</tr>
<tr>
<td>NRES 201</td>
<td>Introductory Soils</td>
</tr>
<tr>
<td>PLPA 204</td>
<td></td>
</tr>
</tbody>
</table>

**Select 7 or 8 hours from the following specialized courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPSC 352</td>
<td>Plant Genetics</td>
</tr>
<tr>
<td>HORT 341</td>
<td>Greenhouse Mgmt and Production</td>
</tr>
<tr>
<td>HORT 442</td>
<td>Plant Nutrition</td>
</tr>
<tr>
<td>CPSC 484</td>
<td>Plant Physiology</td>
</tr>
<tr>
<td>or IB 420</td>
<td>Plant Physiology</td>
</tr>
<tr>
<td>NRES 438</td>
<td>Soil Nutrient Cycling</td>
</tr>
<tr>
<td>or NRES 488</td>
<td>Soil Fertility and Fertilizers</td>
</tr>
</tbody>
</table>

**Select 15 hours from the following focus area electives:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACE 231</td>
<td>Food and Agribusiness Mgt</td>
</tr>
<tr>
<td>CPSC 261</td>
<td>Biotechnology in Agriculture</td>
</tr>
<tr>
<td>CPSC 431</td>
<td>Plants and Global Change</td>
</tr>
<tr>
<td>CPSC 437</td>
<td>Principles of Agroecology</td>
</tr>
<tr>
<td>HORT 180</td>
<td></td>
</tr>
<tr>
<td>HORT 205</td>
<td>Local Food Systems</td>
</tr>
<tr>
<td>HORT 301</td>
<td></td>
</tr>
<tr>
<td>HORT 341</td>
<td>Greenhouse Mgmt and Production</td>
</tr>
<tr>
<td>HORT 344</td>
<td>Planting for Biodiversity and Aesthetics</td>
</tr>
<tr>
<td>HORT 363</td>
<td>Postharvest Handling Hort Crop</td>
</tr>
<tr>
<td>HORT 421</td>
<td>Horticultural Physiology</td>
</tr>
<tr>
<td>HORT 434</td>
<td></td>
</tr>
<tr>
<td>HORT 435</td>
<td>Urban Food Production</td>
</tr>
<tr>
<td>HORT 442</td>
<td>Plant Nutrition</td>
</tr>
<tr>
<td>HORT 447</td>
<td>Horticultural Plant Breeding</td>
</tr>
<tr>
<td>HORT 475</td>
<td></td>
</tr>
<tr>
<td>TSM 311</td>
<td></td>
</tr>
</tbody>
</table>

Total ACES prescribed and elective hours must total 35 hours, of which 20 must be completed in residence.

**Total Required Concentration Hours:**

51-52

*May only be applied here if not used as a Specialized Course.*

*Information listed in this catalog is current as of 07/2022*