CROP SCIENCES, B.S., HORTICULTURAL FOOD SYSTEMS CONCENTRATION

This concentration provides students with a strong foundation in plant sciences along with specialized knowledge in horticultural fruit and vegetable crop systems at urban, local, and commercial scales. Graduates from this program are prepared for careers as crop consultants, crop protection and production specialists; entrepreneurs in urban and local food systems; greenhouse or farm managers; and as community gardening and horticultural educators. This concentration will also prepare students for graduate studies leading to careers in research, extension, and education. A minimum of 126 total hours is required.

Prescribed Courses including Campus General Education

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHET 105</td>
<td>Writing and Research or equivalent - see College Composition I requirement (3 or 4)</td>
<td>4</td>
</tr>
<tr>
<td>CMN 101</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Select from campus approved list.</td>
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<td>3-4</td>
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<tr>
<td>See Specific Concentration Requirements</td>
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</tbody>
</table>

Quantitative Reasoning I

Select one of the following: 4-5

- MATH 220 Calculus
- MATH 221 Calculus I
- MATH 234 Calculus for Business I

Quantitative Reasoning II

- CPSC 241 Intro to Applied Statistics

Natural Sciences and Technology

See Specific Concentration Requirements

Humanities and the Arts

Select from campus approved list

Social and Behavioral Sciences

- ACE 100 Agr Cons and Resource Econ
- or ECON 102 Microeconomic Principles

Select from campus approved list.

ACES required

- ACES 101 Contemporary Issues in ACES

Concentration prescribed courses. See specific concentration requirements.

Total Hours 126

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry I &amp; CHEM 103 General Chemistry Lab I</td>
<td>15-16</td>
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<tr>
<td>CHEM 104</td>
<td>General Chemistry II &amp; CHEM 105 General Chemistry Lab II</td>
<td></td>
</tr>
<tr>
<td>CHEM 232</td>
<td>Elementary Organic Chemistry I or CPSC Organic Chem of Biol Processes</td>
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<tr>
<td>IB 103</td>
<td>Introduction to Plant Biology</td>
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</tbody>
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Horticultural Food Systems Concentration Required 63

- ACE 231 Food and Agribusiness Mgt
- CPSC 226 Introduction to Weed Science
- CPSC 261 Biotechnology in Agriculture
- CPSC 270 Applied Entomology
- CPSC 352 Plant Genetics
- CPSC 498 Crop Sci Professional Develpmt
- HORT 100 Introduction to Horticulture
- HORT 240 Plant Propagation
- HORT 341 Greenhouse Mgmt and Production
- HORT 360 Vegetable Crop Production
- HORT 361 Small Fruit Production
- HORT 362 Tree Fruit Production
- HORT 421 Horticultural Physiology
- NRES 201 Introductory Soils
- NRES 438 Soil Nutrient Cycling or NRES 438 Soil and Water Conservation or NRES 438 Fertility and Fertilizers
- PLPA 204 Introductory Plant Pathology

Select 15 hours from the following:

- CPSC 431 Plants and Global Change
- CPSC 437 Principles of Agroecology
- HORT 180 Medicinal Plants and Herbology
- HORT 205 Local Food Networks
- HORT 298 Undergraduate Seminar
- HORT 301 Woody Landscape Plants
- HORT 344 Planting for Biodiversity and Aesthetics
- HORT 363 Postharvest Handling Hort Crop
- HORT 434 Designing Urban Agriculture
- HORT 435 Urban Food Production
- HORT 442 Plant Nutrition
- HORT 447 Horticultural Plant Breeding
- HORT 475 Permaculture & Agroforestry

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

Information listed in this catalog is current as of 10/2018