CROP SCIENCES: HORTICULTURAL FOOD SYSTEMS, BS

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

department website: https://cropsciences.illinois.edu/
department faculty: https://cropsciences.illinois.edu/people/faculty
overview of college admissions & requirements: Agricultural, Consumer & Environmental Sciences (http://catalog.illinois.edu/schools/aces/academic-units/#academicunitstext)
college website: https://aces.illinois.edu/

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.

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>
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<tbody>
<tr>
<td>RHET 105</td>
<td>Composition I and Speech</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>Advanced Composition</td>
<td>3</td>
</tr>
<tr>
<td>Select from campus approved list.</td>
<td>3-4</td>
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</tbody>
</table>

Cultural Studies
Select one course from Western culture, one from non-Western culture, and one from U.S. minority culture from campus approved lists.

Foreign Language
Coursework at or above the third level is required for graduation.

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 3

Natural Sciences and Technology
See Specific Concentration Requirements

Humanities and the Arts
Select from campus approved list 6

Social and Behavioral Sciences
ACE 100 Introduction to Applied Microeconomics 3-4
or ECON 102 Microeconomic Principles 3-4

ACES required
ACES 101 Contemporary Issues in ACES 2

Required Concentration
58-79

Concentration prescribed courses. See specific concentration requirements.

Total Hours 126

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>CHEM 102 &amp; CHEM 103</td>
<td>General Chemistry I &amp; General Chemistry Lab I</td>
<td>15-16</td>
</tr>
<tr>
<td>CHEM 104 &amp; CHEM 105</td>
<td>General Chemistry II &amp; General Chemistry Lab II</td>
<td>15-16</td>
</tr>
<tr>
<td>CHEM 232</td>
<td>Elementary Organic Chemistry I or CPSC 382 Organic Chem of Biol Processes</td>
<td>15-16</td>
</tr>
<tr>
<td>IB 103</td>
<td>Introduction to Plant Biology</td>
<td>15-16</td>
</tr>
</tbody>
</table>

Concentration Required Core Courses: 29

- CPSC 102 Foundational Skills in Crop Sciences
- CPSC 226
- CPSC 270 Applied Entomology
- CPSC 498 Crop Sci Professional Developmt
- HORT 100 Introduction to Horticulture
- HORT 240 Plant Propagation
- HORT 360 Vegetable Crop Production
- HORT 361 Small Fruit Production
- HORT 362 Tree Fruit Production
- NRES 201 Introductory Soils
- PLPA 204

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

- CPSC 352 Plant Genetics
- HORT 341 Greenhouse Mgmt and Production
- HORT 442 Plant Nutrition
- CPSC 484 Plant Physiology or IB 420 Plant Physiology
- NRES 438 Soil Nutrient Cycling or NRES 488 Soil Fertility and Fertilizers

Select 15 hours from the following focus area electives: 15

- ACE 231 Food and Agribusiness Mgt
- CPSC 261 Biotechnology in Agriculture
- CPSC 431 Plants and Global Change
- CPSC 437 Principles of Agroecology
- HORT 180
- HORT 205 Local Food Networks

Information listed in this catalog is current as of 02/2021
HORT 301

HORT 341  Greenhouse Mgmt and Production
HORT 344  Planting for Biodiversity and Aesthetics
HORT 363  Postharvest Handling Hort Crop
HORT 421  Horticultural Physiology

HORT 434

HORT 435  Urban Food Production
HORT 442  Plant Nutrition
HORT 447  Horticultural Plant Breeding

HORT 475

TSM 311  Humanity in the Food Web

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

**Total Required Concentration Hours:** 51-52

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