CROP SCIENCES: CROPS, BS

for the degree of Bachelor of Science Major in Crop Sciences, Crops
Concentration

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

The crops concentration is designed for students with an interest in
agronomic crop plants. Students study the diversity of crop plants—
how they grow and how they are grown This concentration prepares
students for careers in crop production and marketing, cropping systems
management, plant breeding, and seed merchandising, or for entrance
into graduate school.

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</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>
</tbody>
</table>

Advanced Composition
Select from campus approved list. 3-4

Cultural Studies
Select one course from Western culture, one from non-Western culture, and one from U.S. minority culture from campus approved lists. 9

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  Agr Cons and Resource Econ 1 3-4
or ECON 102  Microeconomic Principles 3-4
Select from campus approved list. 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.

<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</td>
<td>4</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>4</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>4</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>4</td>
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</tbody>
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Crops Concentration Required

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CPSC 112</td>
<td>Introduction to Crop Sciences</td>
<td>4</td>
</tr>
<tr>
<td>CPSC 226</td>
<td>Introduction to Weed Science</td>
<td>3</td>
</tr>
<tr>
<td>CPSC 270</td>
<td>Applied Entomology</td>
<td>3</td>
</tr>
<tr>
<td>CPSC 498</td>
<td>Crop Sci Professional Develpmt</td>
<td>1</td>
</tr>
<tr>
<td>NRES 201</td>
<td>Introductory Soils</td>
<td>4</td>
</tr>
<tr>
<td>PLPA 204</td>
<td>Introductory Plant Pathology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 4-5
- MCB 100  Introductory Microbiology
- MCB 101  and Intro Microbiology Laboratory
- IB 104  Animal Biology

Select one of the following: 3-4
- ANSC 100  Intro to Animal Sciences
- FSHN 101  Intro Food Science & Nutrition
- HORT 100  Introduction to Horticulture
- NRES 102  Introduction to NRES
- TSM 100  Technical Systems in Agr

Select 12 hours from the following: 12
- CPSC 261  Biotechnology in Agriculture
- CPSC 265  Genetic Engineering Lab
- CPSC 352  Plant Genetics
- CPSC 412  Principles of Crop Production
- CPSC 414  Forage Crops & Pasture Ecology
- CPSC 415  Bioenergy Crops
- CPSC 418  Crop Growth and Management
- CPSC 426  Weed Mgt and Management
- CPSC 431  Plants and Global Change
- CPSC 437  Principles of Agroecology
- CPSC 452  Advanced Plant Genetics
- CPSC 453  Principles of Plant Breeding
- CPSC 454  Plant Breeding Methods
- CPSC 484  Plant Physiology
- or HORT 421  Horticultural Physiology
- NRES 419  Env and Plant Ecosystems
- PLPA 401  Plant Pathogenic Fungi
- PLPA 402  Phytoparasitic Nematodes
- PLPA 404  Plant Virology
- PLPA 405  Plant Disease Diagnosis & Mgmt

Information listed in this catalog is current as of 12/2019
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>PLPA 406</td>
<td>Phytobacteriology</td>
</tr>
<tr>
<td>PLPA 407</td>
<td>Diseases of Field Crops</td>
</tr>
<tr>
<td>NRES 471</td>
<td>Pedology</td>
</tr>
<tr>
<td>NRES 474</td>
<td>Soil and Water Conservation</td>
</tr>
<tr>
<td>NRES 475</td>
<td>Environmental Microbiology</td>
</tr>
<tr>
<td>NRES 488</td>
<td>Soil Fertility and Fertilizers</td>
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</tbody>
</table>

Select six hours from the following: 6

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

Total Hours 126