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/faculty
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 Introduction to Applied Microeconomics 3-4

or ECON 102 Microeconomic Principles

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>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102 &amp; CHEM 103</td>
<td>General Chemistry I and General Chemistry Lab I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 104 &amp; CHEM 105</td>
<td>General Chemistry II and General Chemistry Lab II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 232 or CPSC 382</td>
<td>Elementary Organic Chemistry I or Organic Chem of Biol Processes</td>
<td>4</td>
</tr>
<tr>
<td>IB 103</td>
<td>Introduction to Plant Biology</td>
<td>4</td>
</tr>
</tbody>
</table>

Crops Concentration Required

CPSC 112 Introduction to Crop Sciences 4

CPSC 226 3

CPSC 270 Applied Entomology 3

CPSC 498 Crop Sci Professional Developmt 1

NRES 201 Introductory Soils 4

PLPA 204 3

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 The Science of Food and How it Relates to You
- 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 in Agronomic Crops
- 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 403 Advanced Plant Pathology
- PLPA 405 Plant Disease Diagnosis & Mgmt
- PLPA 407

Information listed in this catalog is current as of 08/2021
Select six hours from the following:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<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>
</tr>
</tbody>
</table>

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

Total Hours 126