**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**

**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**

ACE 101 Contemporary Issues in ACES 2

**Required Concentration** 58-79

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Concentration prescribed courses. See specific concentration requirements.

**Total Hours** 126

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

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**Code** | **Title** | **Hours**
---|---|---

**Natural Sciences and Technology**

- **CHEM 102** General Chemistry I 4
- & **CHEM 103** and General Chemistry Lab I 4
- **CHEM 104** General Chemistry II 4
- & **CHEM 105** and General Chemistry Lab II 4
- **CHEM 232** Elementary Organic Chemistry I 4
- or CPSC 38: Organic Chem of Biol Processes 4
- **IB 103** Introduction to Plant Biology 4

**Crops Concentration Required**

- **CPSC 112** Introduction to Crop Sciences 4
- **CPSC 226** Introduction to Weed Science 3
- **CPSC 270** Applied Entomology 3
- **CPSC 498** Crop Sci Professional Development 1
- **NRES 201** Introductory Soils 4
- **PLPA 204** Introductory Plant Pathology 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
- **FHSN 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 Horticultural Physiology
- **NRES 419** Env and Plant Ecosystems
- **PLPA 403** Advanced Plant Pathology
- **PLPA 405** Plant Disease Diagnosis & Mgmt
- **PLPA 407** Diseases of Field Crops

Select six hours from the following: 6

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Information listed in this catalog is current as of 05/2020
<table>
<thead>
<tr>
<th>Course Code</th>
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</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 |