CROP SCIENCES: AGROECOLOGY, BS

for the degree of Bachelor of Science Major in Crop Sciences, Agroecology 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 Agroecology Concentration addresses ecologically based management of cropping systems, stewardship of the environment, and sustainable food production systems. The intersection between crop plants and their environment is emphasized in this concentration. Graduates of the Agroecology concentration are prepared for careers in integrated plant health management, government regulatory and environmental agencies or for entrance into graduate or professional school.

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Prescribed Courses including Campus General Education

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Composition I and Speech</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RHET 105</td>
<td>Writing and Research</td>
<td>4</td>
</tr>
<tr>
<td>CMN 101</td>
<td>Public Speaking</td>
<td>3</td>
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</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 3-4
or ECON 102Microeconomic 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.

Agroecology Concentration Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 103</td>
<td>General Chemistry Lab I</td>
<td></td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 105</td>
<td>General Chemistry Lab II</td>
<td></td>
</tr>
<tr>
<td>CHEM 232</td>
<td>Elementary Organic Chemistry I</td>
<td>3-4</td>
</tr>
<tr>
<td>IB 103</td>
<td>Introduction to Plant Biology</td>
<td>4</td>
</tr>
<tr>
<td>IB 150</td>
<td>Organismal &amp; Evolutionary Biol</td>
<td>4</td>
</tr>
<tr>
<td>IB 203</td>
<td>Ecology</td>
<td>4</td>
</tr>
<tr>
<td>MCB 150</td>
<td>Molec &amp; Cellular Basis of Life</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following: 4-5

- MCB 100 Introductory Microbiology
- MCB 101 Intro Microbiology Laboratory
- IB 104 Animal Biology

Agroecology Concentration Required

CPSC 112 Introduction to Crop Sciences 4
CPSC 226 Introduction to Weed Science 3
CPSC 270 Applied Entomology 3
CPSC 336 Tomorrow’s Environment 3
CPSC 431 Plants and Global Change 3
CPSC 437 Principles of Agroecology 3
CPSC 498 Crop Sci Professional Develpmt 1
NRES 201 Introductory Soils 4
NRES 474 Soil and Water Conservation 3
or NRES 488 Soil Fertility and Fertilizers
PLPA 204 Introductory Plant Pathology 3

Select one course from three of the following groups: 9-12

- ACE 210 Environmental Economics
- or ACE 3 Natural Resource Economics
- CPSC 412 Principles of Crop Production
- or CPSC 428 Crop Production
- or CPSC 438 Crop Production
- or CPSC 439 Crop Production
- CPSC 426 Weed Mgt in Agronomic Crops
- CPSC 473 Mgmt of Field Crop Insects
- NRES 401 Watershed Hydrology
- or NRES Env and Plant Ecosystems
- or NRES Env and Sustainable Dev

Information listed in this catalog is current as of 08/2019
<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>or NRES 488</td>
<td>Soil Fertility and Fertilizers</td>
</tr>
<tr>
<td>PLPA 401</td>
<td>Plant Pathogenic Fungi</td>
</tr>
<tr>
<td>or PLPA 402</td>
<td>Nematode Virology</td>
</tr>
<tr>
<td>or PLPA 403</td>
<td>Plant Pathogenic Nematodes</td>
</tr>
<tr>
<td>or PLPA 404</td>
<td>Phytoparasitic Nematodes</td>
</tr>
<tr>
<td>or PLPA 405</td>
<td>Plant Virology</td>
</tr>
<tr>
<td>or PLPA 406</td>
<td>Plant Disease Diagnosis &amp; Mgmt</td>
</tr>
<tr>
<td>or PLPA 407</td>
<td>Plant Disease Diagnosis &amp; Mgmt</td>
</tr>
<tr>
<td>or PLPA 408</td>
<td>Phytonematology</td>
</tr>
<tr>
<td>or PLPA 409</td>
<td>Diseases of Field Crops</td>
</tr>
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</table>

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

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