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/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 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>
</tr>
</thead>
<tbody>
<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>
</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

Information listed in this catalog is current as of 02/2022

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.

Agroecology Concentration Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102 &amp; 103</td>
<td>General Chemistry I and General Chemistry Lab I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 104 &amp; 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>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 & MCB 101 Introductory Microbiology and Intro Microbiology Laboratory
- IB 104 Animal Biology

Agroecology Concentration Required

CPSC 112 Introduction to Crop Sciences 4
CPSC 226 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

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

- ACE 210 Environmental Economics
  or ACE 310 Natural Resource Economics
- CPSC 412 Principles of Crop Production
  or CPSC 414 Forage Crops & Pasture Ecology
  or CPSC 415 Bioenergy Crops
  or CPSC 418 Crop Growth and Management
- CPSC 426 Weed Mgt in Agronomic Crops
- CPSC 473 Mgmt of Field Crop Insects
- NRES 401 Watershed Hydrology
  or NRES 419 Env and Plant Ecosystems
  or NRES 439 Env and Sustainable Dev
or NRES 488 Soil Fertility and Fertilizers
PLPA 403 Advanced Plant Pathology
or PLPA 405 Plant Disease Diagnosis & Mgmt
or PLPA 407

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

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