CROP SCIENCES, B.S., AGROECOLOGY CONCENTRATION

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.

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>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>
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<tr>
<td>CMN 101</td>
<td>Public Speaking</td>
<td>3</td>
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</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.

Code | Title                                            | Hours |
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<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry I &amp; General Chemistry Lab I</td>
<td>4</td>
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<tr>
<td>CHEM 104</td>
<td>General Chemistry II &amp; General Chemistry Lab II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 232</td>
<td>Elementary Organic Chemistry I or CPSC 38: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>
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<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>
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Select one of the following: 4-5

- MCB 100 Introductory Microbiology & MCB 101 and 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 Developmt 1
NRES 201 Introductory Soils 4
NRES 474 Soil and Water Conservation 3

or NRES 488Soil 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 Advising
- or CPSC 414 Forage Crops and Pasture Eco
- or CPSC 415 Bioenergy Crops
- or CPSC 418p Growth and Management
- 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
- or NRES Soil Fertility and Fertilizers
- PLPA 401 Plant Pathogenic Fungi
- or PLPA 430Topoparasitic Nematodes
- or PLPA 430Virology
- or PLPA 430Disease Diagnosis & Mgmt
- or PLPA 430Phytobacteriology
- or PLPA 430Diseases of Field Crops

Select one of the following: 3-4

- ANSC 100 Intro to Animal Sciences
- FSHN 101 Intro Food Science & Nutrition
<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>HORT 100</td>
<td>Introduction to Horticulture</td>
</tr>
<tr>
<td>NRES 102</td>
<td>Introduction to NRES</td>
</tr>
<tr>
<td>TSM 100</td>
<td>Technical Systems in Agr</td>
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</tbody>
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Total ACES prescribed and elective courses must total 35 hours, of which 20 hours must be completed in residence.