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.

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CPSC 112</td>
<td>Introduction to Crop Sciences</td>
<td>4</td>
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<tr>
<td>CPSC 226</td>
<td>Introduction to Weed Science</td>
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<tr>
<td>CPSC 270</td>
<td>Applied Entomology</td>
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<tr>
<td>CPSC 498</td>
<td>Crop Sci Professional Develpmt</td>
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<tr>
<td>NRES 201</td>
<td>Introductory Soils</td>
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<tr>
<td>PLPA 204</td>
<td>Introductory Plant Pathology</td>
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Select one of the following:

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<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MCB 100</td>
<td>Introductory Microbiology &amp; MCB 101 Intro Microbiology Laboratory</td>
<td>4-5</td>
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<tr>
<td>IB 104</td>
<td>Animal Biology</td>
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Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ANSC 100</td>
<td>Intro to Animal Sciences</td>
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<tr>
<td>FSHN 101</td>
<td>Intro Food Science &amp; Nutrition</td>
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</tr>
<tr>
<td>HORT 100</td>
<td>Introduction to Horticulture</td>
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</tr>
<tr>
<td>NRES 102</td>
<td>Introduction to NRES</td>
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</tr>
<tr>
<td>TSM 100</td>
<td>Technical Systems in Agr</td>
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Select 12 hours from the following:

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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>CPSC 261</td>
<td>Biotechnology in Agriculture</td>
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</tr>
<tr>
<td>CPSC 265</td>
<td>Genetic Engineering Lab</td>
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<tr>
<td>CPSC 352</td>
<td>Plant Genetics</td>
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<tr>
<td>CPSC 412</td>
<td>Principles of Crop Advising</td>
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<tr>
<td>CPSC 414</td>
<td>Forage Crops and Pasture Eco</td>
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</tr>
<tr>
<td>CPSC 415</td>
<td>Bioenergy Crops</td>
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<tr>
<td>CPSC 418</td>
<td>Crop Growth and Management</td>
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<tr>
<td>CPSC 426</td>
<td>Weed Mgt in Agronomic Crops</td>
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<tr>
<td>CPSC 431</td>
<td>Plants and Global Change</td>
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</tr>
<tr>
<td>CPSC 437</td>
<td>Principles of Agroecology</td>
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</tr>
<tr>
<td>CPSC 452</td>
<td>Advanced Plant Genetics</td>
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<tr>
<td>CPSC 453</td>
<td>Principles of Plant Breeding</td>
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<tr>
<td>CPSC 454</td>
<td>Plant Breeding Methods</td>
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<tr>
<td>CPSC 484</td>
<td>Plant Physiology or HORT Horticultural Physiology</td>
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<tr>
<td>NRES 419</td>
<td>Env and Plant Ecosystems</td>
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<tr>
<td>PLPA 401</td>
<td>Plant Pathogenic Fungi</td>
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Select six hours from the following: 6

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<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>NRES 471</td>
<td>Pedology</td>
<td></td>
</tr>
<tr>
<td>NRES 474</td>
<td>Soil and Water Conservation</td>
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<tr>
<td>NRES 475</td>
<td>Environmental Microbiology</td>
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<tr>
<td>NRES 488</td>
<td>Soil Fertility and Fertilizers</td>
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Total ACES prescribed and elective courses must total 35 hours, of which 20 hours must be completed in residence.

Total Hours 126