# Geographic Information Systems for Agriculture Minor

## Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRAE 150</td>
<td>Design Graphics and CAD for Agricultural Engineering</td>
<td>2</td>
</tr>
<tr>
<td>BRAE 239</td>
<td>Engineering Surveying</td>
<td>4</td>
</tr>
<tr>
<td>BRAE 345</td>
<td>Aerial Photogrammetry and Remote Sensing</td>
<td>3-4</td>
</tr>
<tr>
<td>or GEOG 328</td>
<td>Applications in Remote Sensing</td>
<td></td>
</tr>
<tr>
<td>NR/LA 218</td>
<td>Introduction to Geographic Information Systems (GIS)</td>
<td>3-4</td>
</tr>
<tr>
<td>or GEOG 318</td>
<td>Applications in GIS</td>
<td></td>
</tr>
<tr>
<td>NR 418</td>
<td>Applied GIS</td>
<td>3-4</td>
</tr>
<tr>
<td>or GEOG 440</td>
<td>Advanced-Applications in GIS</td>
<td></td>
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</tbody>
</table>

## Emphasis areas

Select one of the following emphasis areas: 12

### Environmental Information Emphasis

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRAE/NR 355</td>
<td>Drone Assisted Surveying</td>
</tr>
<tr>
<td>BRAE 447</td>
<td>Advanced Surveying with GIS Applications</td>
</tr>
<tr>
<td>NR 306</td>
<td>Natural Resource Ecology and Habitat Management</td>
</tr>
<tr>
<td>NR 416</td>
<td>Environmental Impact Analysis and Management</td>
</tr>
<tr>
<td>or CRP 336</td>
<td>Introduction to Environmental Planning</td>
</tr>
</tbody>
</table>

### Precision Agriculture Emphasis

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>AEPS/BRAE 244</td>
<td>Precision Farming</td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>AEPS 406</td>
<td>Advanced Weed Management</td>
</tr>
<tr>
<td>AEPS 410</td>
<td>Crop Physiology</td>
</tr>
<tr>
<td>AEPS 423</td>
<td>Advanced Vegetable Science</td>
</tr>
<tr>
<td>AEPS 431</td>
<td>Insect Pest Management</td>
</tr>
<tr>
<td>AEPS 445</td>
<td>Cropping Systems</td>
</tr>
<tr>
<td>BRAE/NR 355</td>
<td>Drone Assisted Surveying</td>
</tr>
<tr>
<td>BRAE 447</td>
<td>Advanced Surveying with GIS Applications</td>
</tr>
</tbody>
</table>

## Total units

| 27-30 |