## MS AGRICULTURE, SPECIALIZATION IN IRRIGATION

### Program Learning Objectives
1. Demonstrate expertise in their respective discipline.
2. Develop, test or select the appropriate technology in their respective discipline.
3. Demonstrate effective communication skills.
4. Formulate decisions utilizing professional ethics.
5. Value the diversity of people and ideas.
6. Investigate problems using critical thinking and derive appropriate solutions.

### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 581</td>
<td>Graduate Seminar</td>
<td>2</td>
</tr>
<tr>
<td>BRAE 438</td>
<td>Drip/Micro Irrigation</td>
<td>4</td>
</tr>
<tr>
<td>BRAE 440</td>
<td>Agricultural Irrigation Systems</td>
<td>4</td>
</tr>
<tr>
<td>BRAE 500</td>
<td>Individual Study</td>
<td>3</td>
</tr>
<tr>
<td>BRAE 533</td>
<td>Irrigation Project Design</td>
<td>4</td>
</tr>
<tr>
<td>BRAE 599</td>
<td>Thesis in BioResource and Agricultural Engineering</td>
<td>9</td>
</tr>
<tr>
<td>ESCI 501</td>
<td>Research Planning</td>
<td>4</td>
</tr>
<tr>
<td>STAT 511</td>
<td>Statistical Methods</td>
<td>4</td>
</tr>
<tr>
<td>STAT 513</td>
<td>Applied Experimental Design and Regression Models</td>
<td>4</td>
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</tbody>
</table>

### Approved Electives

Any 400 and 500 level courses approved by the student's graduate committee

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>7</td>
</tr>
</tbody>
</table>

Total units: 45

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1 At least 60% of all units required by the committee as reflected on the formal study plan must be at the 500 level.