MS AGRICULTURE, SPECIALIZATION IN ANIMAL SCIENCE

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</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG 581</td>
<td>Graduate Seminar</td>
<td>2</td>
</tr>
<tr>
<td>AG 599</td>
<td>Thesis</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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Approved Electives ¹

Select from the following: 22

- AG 500 Individual Study
- AGED 524 Instructional Processes in Agricultural Education
- ASCI 581 Graduate Seminar in Animal Science
- ASCI 403 Applied Biotechnology in Animal Science
- ASCI 405 Domestic Livestock Endocrinology
- ASCI 406 Applied Animal Embryology and Assisted Reproduction
- ASCI 415 HACCP for Meat and Poultry Operations
- ASCI 420 Animal Metabolism and Nutrition
- ASCI 438 Systemic Animal Physiology
- ASCI 440 Immunology and Diseases of Animals
- ASCI 450 Computer Applications in Animal Science: Spreadsheet Analysis
- ASCI 500 Individual Study in Animal Science
- ASCI 583 Research Experience for Regenerative Medicine Students
- ASCI 593 Regenerative Medicine Internship
- BIO 501 Molecular & Cellular Biology
- BIO 524 Developmental Biology Seminar
- CHEM 428 Nutritional Biochemistry
- NR 532 Applications in Biometrics and Econometrics

Any 400 and 500 level courses approved by the student’s graduate committee ¹

Total units 45

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