## MS Agriculture, Specialization in Animal Science

### 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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</tbody>
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### Approved Electives

Select from the following: 22 units

- 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
  or ASCI 540 Advanced 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

### 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.