### 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>1</td>
</tr>
<tr>
<td>AG 599</td>
<td>Thesis</td>
<td>6</td>
</tr>
<tr>
<td>ASCI 581</td>
<td>Graduate Seminar in Animal Science</td>
<td>3</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>
</tr>
</tbody>
</table>

Select from the following:

- AG 500 Individual Study
- 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 503 Advanced Molecular Techniques in Animal Science
- ASCI 593 Regenerative Medicine Internship
- ASCI 594 Applications in Regenerative Medicine
- AGED 438 Instructional Processes in Agricultural Education
- BIO 501 Molecular & Cellular Biology
- BIO 524 Developmental Biology Seminar
- CHEM 528 Nutritional Biochemistry
- NR 532 Applications in Biometrics and Econometrics

#### Approved Electives

Any 400 and 500 level courses approved by the student's graduate committee: 11 units

**Total units**: 45

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