<table>
<thead>
<tr>
<th>Program:</th>
<th>Master of Animal Breeding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree:</td>
<td>MS</td>
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<tr>
<td>Department:</td>
<td>Animal Science</td>
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<tr>
<td>Contact Name:</td>
<td>Kathrin Dunlap</td>
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<tr>
<td>Contact Phone:</td>
<td>845-1541</td>
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**Outcome**

Master degree-program requirements, including theories, concepts, principles, and practice, and develop a coherent understanding of the subject matter through synthesis across courses and experiences.

** Marketable Skills**

- Knowledge of literature in discipline
- Ability to assimilate and communicate concepts and principles
- Writing and oral communication competencies

**Outcome**

Apply subject matter knowledge in a range of contexts to solve problems and make decisions.

** Marketable Skills**

- Draw on a broad intellectual database using search engines and apply the knowledge gained to solve well-defined problems
- Make data based decisions using scientific data to solve problems or correct misconceptions
- Apply critical thinking using a defined problem solving process

**Outcome**

Use a variety of sources and evaluate multiple points of view to analyze and integrate information and to conduct critical, reasoned arguments.

** Marketable Skills**

- Establish an interdisciplinary team with expertise in those disciplines that are relevant to conducting studies and/or research
- Use existing knowledge to develop and implement sound approaches that lead to solutions to problems
- Exercise leadership skills to solve problems and communicate credits for those who were key to problem-solving activities

**Outcome**

Communicate effectively.

** Marketable Skills**

- Writing clear and understandable documents
- Utilization of technical programs that clarify and convey results
- Speaking skills that engage the audience and convey significant findings

**Outcome**

Use appropriate technologies to communicate, collaborate, conduct research, and solve problems.

** Marketable Skills**

- Practice interdisciplinary research in developing hypotheses and using experimental methods.
- Engage collaborators in research and sharing of outcomes
- Recognize and reward excellence in communication, laboratory skills and expertise, interpretation of data and publication of results.

**Outcome**

Develop clear research plans and conduct valid, data-supported, theoretically
consistent, and institutionally appropriate research.

| Marketable Skills | • Intellectually competent in discipline with strong base of knowledge of decision making regarding next steps in activities, e.g., research.  
|                   | • Develop rational and testable hypotheses  
|                   | • Design and execute well designed experiments to test hypotheses |

| Marketable Skills | • Recognize contributions of each individual involved in all steps in the Scientific Method for conduct of sound research  
|                   | • Use objective methods to analyze data and interpret results in an unbiased manner  
|                   | • Adhere to high standards guiding issues of compliance, publishing and rewarding excellence in research, basic and clinical, and outreach. |