

**Department: Animal Science & Veterinary Technology**

**Program: MS in Animal Science**

Skill Set	Professional Application	Delivery of Skill Set Courses, extracurricular activities, etc. in which the skill set is introduced (I), reinforced (R), or mastered (M)
Master depth of knowledge required for by the degree	<ul style="list-style-type: none"> <li>• In depth study of biological, biochemical, proteonomic, &amp; metabolomic principles, mechanisms, &amp; systems</li> <li>• Demonstrate appropriate laboratory safety &amp; analytical procedures</li> </ul>	<ul style="list-style-type: none"> <li>• ANSC 5307, 5333, 5336, 5337, 5338, 5351, 5390<sup>1</sup>, 53902, &amp; 53903 (I, R)</li> <li>• ANSC 6335 (M)</li> <li>• Competency examination (M)</li> <li>• Thesis defense (M)</li> </ul>
Demonstrate critical thinking & decision-formulating	<ul style="list-style-type: none"> <li>• Design &amp; conduct research project</li> <li>• Selection of appropriate laboratory analyses</li> <li>• Data entry, analyses, and interpretation</li> </ul>	<ul style="list-style-type: none"> <li>• ANSC 5305 (R), 5395 (M), &amp; 5399 (M)</li> <li>• Competency examination (M)</li> <li>• Thesis defense (M)</li> </ul>
Communicate effectively	<ul style="list-style-type: none"> <li>• Oral presentations</li> <li>• Abstract &amp; manuscript preparation</li> <li>• Thesis writing &amp; defense</li> </ul>	<ul style="list-style-type: none"> <li>• ANSC 5306 &amp; 5390<sup>3</sup> (R)</li> <li>• Presentations at state, regional, national &amp; international conferences (M)</li> <li>• Teaching assistant (R, M)</li> <li>• Thesis defense (M)</li> </ul>
Prepare to engage in life-long learning	<ul style="list-style-type: none"> <li>• Understand implications of new information for both current &amp; future problem-solution discovery and decision-making processes</li> <li>• Selection, training/instruction methods, &amp; procedures appropriate for innovative teaching or investigating new things</li> </ul>	<ul style="list-style-type: none"> <li>• All 5000-levels courses (I, R)</li> <li>• Journal “clubs” (R)</li> <li>• ANSC 5335 (M)</li> <li>• Teaching assistant (M)</li> </ul>