**Animal Science (MS)**

**Master of Science Degree Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANS 601</td>
<td>Animal Science Seminar</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>ANS 610</td>
<td>Topical Problems in Animal Science (Safety and Ethics in Animal Science)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANS 685</td>
<td>Master's Supervised Teaching</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANS 695</td>
<td>Master's Thesis Research</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or ANS 693</td>
<td>Master's Supervised Research</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Graduate Elective Courses</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select any 500 - 700 level courses determined in conjunction with the advisory committee.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elective Courses</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select any &quot;Elective Courses&quot; determined in conjunction with the advisory committee.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

1 Students may choose 8 credits in combination of: ANS 693 Master's Supervised Research/ANS 695 Master's Thesis Research, Seminar, ANS 685 Master's Supervised Teaching, and other elective graded courses.

**Additional Requirements & Restrictions**

- A minimum of one (1) full academic year or its equivalent in residence as a graduate student at the university
- A minimum of 30 semester hours of graduate work in the degree program, unless the specific program requires more hours, including a minimum of 18 hours of 500-700 level coursework
- No more than six (6) hours of 400-level courses can be counted toward the minimum 30-hour requirement, and they may not come from the major field
- No more than three (3) credit hours of Masters Supervised Teaching (ANS 685) can be included in the minimum 30-credit program
- No more than six hours of Thesis Research (ANS 693 Master's Supervised Research/ANS 695 Master's Thesis Research) in the minimum 30-hour program
- No more than two (2) credit hours of seminar (S/U graded) may be included in the minimum 30-credit hour program
- Masters Thesis Preparation (ANS 699) credits may not be used to satisfy the 30-credit hour requirement
- A thesis
- A departmental defense seminar
- A comprehensive oral examination

**Accelerated Bachelor's/Master's Degree Requirements**

The Accelerated Bachelors/Master's (ABM) degree program allows exceptional undergraduate students at NC State an opportunity to complete the requirements for both the Bachelor's and Master's degrees at an accelerated pace. These undergraduate students may double count up to 12 credits and obtain a non-thesis Master's degree in the same field within 12 months of completing the Bachelor's degree, or obtain a thesis-based Master's degree in the same field within 18 months of completing the Bachelor's degree.

This degree program also provides an opportunity for the Directors of Graduate Programs (DGP) at NC State to recruit rising juniors in their major to their graduate programs. However, permission to pursue an ABM degree program does not guarantee admission to the Graduate School. Admission is contingent on meeting eligibility requirements at the time of entering the graduate program.

**Faculty**

**Full Professors**

Glen William Almond
Joan Eisemann
Charlotte E. Farin
Vivek Fellner
William Lucas Flowers IV
Fikret Isik
Sung Woo Kim
Duane K. Larick
Hsiao-Ching Liu
Christian Maltecca
Melissa Schuster Merrill
Jeannette A. Moore
Jack Odle
Shannon Elizabeth Phillips
Jorge A. Piedrahita
Matt H. Poore
Miles T. See
Paul David Siciliano
Eric VanHeugten
Elizabeth B. Wilson
Associate Professors
Dana J. Hanson
Mark T. Knauer
Daniel Heath Poole
Korinn Edna Saker
Giuseppe Valacchi

Assistant Professors
Debora A. Esposito
Jonathan Paul Holt
Jicai Jiang
Michael Vadakekara Joseph
Suzanne McKay Leonard
Casey C. Nestor
Carrie L. Pickworth
Xiaoqiu Wang
Stephanie Hill Ward

Practice/Research/Teaching Professors
Kimberly Dawn Ange-Van Heugten
Deidre Danielle Harmon
James B. Holland
Francesco Tiezzi Mazzoni Della Stella Ma
Shweta Trivedi
Lin Xi

Emeritus Faculty
Brenda P. Alston-Mills
Geoffrey A. Benson
Leonard S. Bull
Roger G. Crickenberger
Kenneth L. Eshenbrake
Warren H. Croom, Jr.
Eugene Eisen
Winston Murry Hagler
Raymond W. Harvey
Brinton Alden Hopkins

Gerald B. Huntington
James R. Jones
Jean-Marie Luginbuhl
Roger Lee McCraw
William M. Morrow
Richard M. Myers
Robert M. Petters
Odis Wayne Robison
Frank D. Sargent
Jerry Wayne Spears
Steven Paul Washburn
Michael David Whitacre
Lon Weidner Whitlow
Charles Michael Williams

Adjunct Faculty
Raymond Dean Boyd
Max T. Coffey
Kent A Gray
Jeffrey Alan Hansen
Justin W. Holl
Elizabeth A. Koutsos
Douglas Wyatt Newcom
Theo A. van Kempen
Rasha Qudsieh