# Animal Sciences, MANSC

*for the Master of Animal Sciences in Animal Sciences (on campus & online)*

## Research, Teaching, and Extension Areas

The Department of Animal Sciences offers graduate work leading to the Master of Animal Sciences. Fields of specialization include:

- animal breeding, genetics, and bioinformatics
- animal behavior
- nutrition
- systems of animal management & production, precision management
- physiology of lactation and reproduction
- environmental physiology
- meat science & muscle biology
- immunobiology
- microbiology

Beef and dairy cattle, horses, poultry, sheep, swine, and companion and laboratory animals are available for study. Experience in teaching, extension, or outreach is encouraged as part of the academic work.

## Admission

Candidates for admission to the MANSC program must have a bachelor's degree from an accredited institution equivalent to those from the University of Illinois at Urbana-Champaign. A grade point average of 3.0 or higher (A = 4.0) for the last two years of undergraduate work and for any graduate study is required for admission. Graduate Record Examination (GRE) scores are not required for admission. English proficiency requirements for admission follow Graduate College requirements. Application materials include baccalaureate degree transcripts, resume, personal statement, and three letters of recommendation. Admission is possible for fall, spring, and summer semesters.

*for the Master of Animal Sciences in Animal Sciences*

For additional details and requirements refer to the department's Graduate Handbook ([http://ansci.illinois.edu/grads/degree-requirements/](http://ansci.illinois.edu/grads/degree-requirements/)) and the Graduate College Handbook ([http://www.grad.illinois.edu/gradhandbook/](http://www.grad.illinois.edu/gradhandbook/)).

## Course Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 590</td>
<td>Animal Sciences Seminar</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>or ANSC 591</td>
<td></td>
</tr>
<tr>
<td>ANSC 593</td>
<td>Res Studies in Animal Sciences</td>
<td>8</td>
</tr>
</tbody>
</table>

The individual research studies project or internship experience and a written report will fulfill the ANSC 593 (Research Studies in Animal Sciences) capstone project requirement. The project or internship and the written product will be supervised by the Animal Sciences faculty mentor and provide evidence that the student can understand and apply the scientific method, interpret scientific information; and effectively communicate scientific information in a field of animal sciences.

### Select One Statistics Course:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 440</td>
<td>Applied Statistical Methods I</td>
<td>2-4</td>
</tr>
<tr>
<td>ANSC 445</td>
<td>Statistical Methods</td>
<td></td>
</tr>
<tr>
<td>ANSC 448</td>
<td>Math Modeling in Life Sciences</td>
<td></td>
</tr>
<tr>
<td>ANSC 449</td>
<td>Biological Modeling</td>
<td></td>
</tr>
<tr>
<td>ANSC 442</td>
<td>Introduction to Data Analytics</td>
<td></td>
</tr>
</tbody>
</table>

### Elective Courses: Please consult with advisor

18-20

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Elective 400- or 500-level courses</td>
</tr>
</tbody>
</table>

### Total Minimum Hours

32

## Other Requirements

### Requirement

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Requirements and conditions may overlap</td>
</tr>
</tbody>
</table>

### Minimum Hours Overall Required Within the Unit

12
Minimum 500-level Hours Required Overall: 12
Minimum GPA: 3.0

for the Master of Animal Sciences in Animal Sciences

The recipient of a Master of Animal Sciences in Animal Sciences will demonstrate:

1. Graduate-level understanding of essential concepts and approaches in the area of animal science specialization. The essential concepts will enable the graduate to strengthen the application to a D.V.M, M.Sc., or Ph.D. program, advance throughout the employment ranks, or secure a mid-management position in industry or government agencies.

2. Capacity to execute a supervised independent studies project including a) understanding of the scientific method, research objectives, materials and methods, basic data analysis, and appreciation of the findings; and b) effectively assist on the implementation of essential research activities.

3. Ability to effectively communicate essential disciplinary knowledge and independent studies findings in written format.

4. Aptitude to advocate for interdisciplinary research and education efforts to improve food security, food safety, animal and human health and wellbeing or environmental stewardship.

for the Master of Animal Sciences in Animal Sciences

Graduate Degree Programs in Animal Sciences

Graduate Majors:

- Animal Sciences, MANSC (p. 1)
- Animal Sciences, MS (http://catalog.illinois.edu/graduate/aces/animal-sciences-ms/)
- Animal Sciences, PhD (http://catalog.illinois.edu/graduate/aces/animal-sciences-phd/)

Graduate Concentrations:

- Bioinformatics: Animal Sciences, MS (http://catalog.illinois.edu/graduate/aces/concentration/animal-sciences/bioinformatics/)

for the Master of Animal Sciences in Animal Sciences (on campus & online)

Animal Sciences
Department Head: Rodney Johnson
Graduate Program Coordinator: Sandra Rodriguez-Zas
Associate Director of Graduate Studies: Ashley Lamb
Program Website (https://giesbusiness.illinois.edu/mas/)
Department Faculty (https://ansc.illinois.edu/directory/faculty/)
110 Animal Sciences Laboratory, 1207 West Gregory Drive, Urbana, IL 61801
(217) 333-3131
ansc-gradprog@illinois.edu (ansci-gradprog@illinois.edu)

College of Agricultural, Consumer & Environmental Sciences
College Website (https://giesbusiness.illinois.edu/)

Admissions
Grad College Admissions & Requirements (https://grad.illinois.edu/admissions/apply/)
ACES College Admissions & Requirements

Information listed in this catalog is current as of 12/2022