ANIMAL SCIENCES, MS

for the Master of Science in Animal Sciences

Graduate Degree Programs in Animal Sciences

Graduate Majors:

- Animal Sciences, MANS (http://catalog.illinois.edu/graduate/aces/animal-sciences-mansc/)
- Animal Sciences, MS (p. 1)
- 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/)

Research Areas

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

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

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 M.S. 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 additional details and requirements refer to the department’s Graduate Handbook (http://ansci.illinois.edu/grads/degree-requirements/) and the Graduate College Handbook (http://www.grad.illinois.edu/gradhandbook/).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Lecture and laboratory classes (400- and at least 2 hours of 500-level courses; excludes ANSC 590 and ANSC 599)</td>
<td>22</td>
<td></td>
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<tr>
<td>Graduate seminar (ANSC 590) enrollment is required every semester (max 2 hours can be applied to the degree)</td>
<td>2</td>
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<tr>
<td>ANSC 599</td>
<td>Thesis Research (min/max applied toward degree)</td>
<td>8</td>
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Total Hours 32

Other Requirements

Requirement

Other Requirements and conditions may overlap

Minimum Hours Overall Required Within the Unit: 8

Information listed in this catalog is current as of 10/2022
for the Master of Science in Animal Sciences

The recipient of a Master of Science 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 secure a mid-level management position in industry or government agencies or pursuit Ph.D. studies and to advance throughout the professional ranks.

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

3. Ability to effectively communicate essential disciplinary knowledge and thesis research findings in oral and written formats.

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

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