Twin Cities Campus

Animal Sciences Ph.D.

Animal Science

College of Food, Agricultural and Natural Resource Sciences

Link to a list of faculty for this program.

Contact Information:
Department of Animal Science, 305 Haecker Hall, 1364 Eckles Avenue, Saint Paul, MN 55108 (612-624-3491; fax: 612-625-5789)
Email: ansci@umn.edu
Website: https://www.ansci.umn.edu/graduate-program

- Program Type: Doctorate
- Requirements for this program are current for Fall 2020
- Length of program in credits: 48
- This program does not require summer semesters for timely completion.
- Degree: Doctor of Philosophy

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

Students in the PhD program concentrate on one of the animal sciences emphasis areas: genetics, nutrition, physiology, or production systems. Students have the option of tailoring their program to include study in more than one emphasis area and to emphasize basic or applied science.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission

The preferred undergraduate GPA for admittance to the program is 3.00.

A bachelor's degree in agriculture or a biological field with training in biology, chemistry, physics, and mathematics is required.

Applicants must submit their test score(s) from the following:

- GRE

International applicants must submit score(s) from one of the following tests:

- TOEFL
  - Internet Based - Total Score: 79
  - Internet Based - Writing Score: 21
  - Internet Based - Reading Score: 19
  - Paper Based - Total Score: 550
- IELTS
  - Total Score: 6.5
- MELAB
  - Final score: 80

The preferred English language test is Test of English as Foreign Language

Key to test abbreviations(GRE, TOEFL, IELTS, MELAB).

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.

Program Requirements

24 credits are required in the major.
24 thesis credits are required.

This program may be completed with a minor.

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Information current as of March 29, 2024

Use of 4xxx courses toward program requirements is permitted under certain conditions with adviser approval.

A minimum GPA of 3.00 is required for students to remain in good standing.

At least 1 semesters must be completed before filing a Degree Program Form.

Ethics Requirement

All students are required to be trained in ethical issues in science. Please select one course from the list below to meet this requirement.
ANSC 5091 - Research Proposals: From Ideas to Strategic Plans (3.0 cr)
or ANSC 8134 - Ethical Conduct of Animal Research (3.0 cr)
or APSC 8123 - Research Ethics in the Plant and Environmental Sciences (0.5 cr)
or PLPA 8123 - Research Ethics in Plant and Environmental Sciences (0.5 cr)
or SOIL 8123 - Research Ethics in the Plant and Environmental Sciences (0.5 cr)
or WRS 8581 - Research and Professional Ethics in Water Resources and Environmental Science (0.5 cr)

Seminar Requirement

All doctoral students are required to take 6 credits of AnSc 8510 Graduate Seminar
ANSC 8510 - Graduate Seminar (1.0 cr)

Thesis Requirement

All doctoral students are required to take 24 thesis credits of AnSc 8888 Graduate Seminar
ANSC 8888 - Thesis Credit: Doctoral (1.0 - 24.0 cr)

Major Coursework

Students are required to take 15 to 17.5 credits in consultation with adviser.

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