

**GRADUATE STUDENT REQUIREMENTS FOR THE M.S. DEGREE
DEPARTMENT OF ANIMAL SCIENCE**

Adopted by Faculty Vote: January 12, 2018

**DEPARTMENT OF ANIMAL SCIENCE
GRADUATE STUDENT REQUIREMENTS FOR MASTER'S DEGREE**

Note: All students are bound by the rules and requirements outlined in the Graduate Catalog corresponding to their year of enrollment in the program.

Overview: The Master of Science (M.S.) degree is offered in Animal Science, with supportive instruction in biochemistry, genetics, environmental health, physiology, food science, microbiology, nutrition, statistics, and other related fields. All prospective students should have a strong academic background in the biological sciences. In addition to the credit requirements described below, all M.S. students are required to complete ANSC 5694 (seminar), and/or ANSC 5693 (grad presentation skills). All graduate students receiving assistantship support are also required to assist in teaching one course per year of enrollment. The M.S. degree in Animal Science offers students the opportunity to emphasize study in animal behavior, genetics, regenerative biology, food science, microbiology, nutrition, growth, physiology of lactation, physiology of reproduction, or production management.

There are two Master of Science programs offered by the department, Plan A (with thesis) and Plan B (non-thesis). Due to the strong research emphasis of the department, students are encouraged to enroll in the Plan A program, which requires the completion of a laboratory-based research project, submission of a thesis, and satisfactory completion of a cohesive curriculum of courses. The Plan B Master's Degree Program requires the student to attain a comprehensive understanding in one of the subject areas outlined below, primarily by enrolling in courses. This Master's degree program is frequently referred to as a "coursework" masters, but actually entails additional elements, described below.

Plan B (Non-thesis) Master's of Science Degree in Animal Science:

Plan B (non-thesis option) M.S. students must complete a minimum of thirty (30) credits, of which a minimum of twenty-four (24) credits must include formal coursework, and a minimum of four (4) credits must include research (ANSC 5692) or independent study (ANSC 5699).

Plan B M.S. students are exempt from the ANSC 5694 requirement, but must complete ANSC 5693 once. Although Plan B students may or may not be involved in laboratory research projects, they are expected to assemble a Graduate Advisory Committee to oversee their selection of coursework and to administer a final examination to assess the student's overall level of comprehensive knowledge of their discipline. In general, the Plan B Master's student should assemble their Graduate Advisory Committee during their first semester to help map out a cohesive plan of study. The Committee should consist of at least three (3) members of the graduate faculty within the department, but can involve faculty from other departments. Once the major advisor and Committee agree on the coursework requirements, a Plan of Study Form must be submitted to the Graduate School for final approval.

The research component of the Plan B program can involve library research, assistance on laboratory-based projects, computer or data analysis, or any form of scholarly activity approved by the major advisor and the committee. This component of the program is generally taken for credit and graded by the instructor-of-record. After completion of all required courses and the research component, the student is required to give a formal presentation of their work. The presentation is open to all faculty members in the department. Following the presentation, the Graduate Advisory Committee will administer a final examination. The format of this examination is at the discretion of the major advisor and the Graduate Advisory Committee, and its purpose is to assess the student's understanding of the area that they have emphasized. The final examination must be completed no later than one (1) year after completion of coursework.

Plan A (Research/Thesis) Master's of Science Degree in Animal Science

Plan A (thesis option) M.S. students must complete a minimum of 30 credits, of which a minimum of 18 credits must include formal coursework, and a minimum of 9 credits must include Thesis Research (GRAD 5950) or Full-Time Master's Research (GRAD 5960).

The formal coursework cannot include research (ANSC 5692) and independent study (ANSC 5699).

GRADUATE ADVISORY COMMITTEE

The Graduate Advisory Committee is charged with guiding the student through all matters pertaining to graduate study, and the student's progress through the program. All Plan A M.S. students in the Department of Animal Science must assemble their Graduate Advisory Committee, in consultation with their major advisor, within their first year of enrollment. The committee must be headed by a major advisor who is a member of both the Department of Animal Science (including jointly appointed faculty) and a member of the Graduate Faculty. The committee must also include at least two (2) associate advisors whose expertise complements the area of anticipated research. Experts from outside of the department and/or University can be included on the committee (See Graduate Catalog). Students are encouraged to schedule annual committee meetings to discuss their research and academic progress.

PLAN OF STUDY

An approved Plan of Study form must be submitted to the Graduate School no later than the beginning of their final semester. The Animal Science department is diverse, with a large variety of student and faculty interests. As a result, each student's program is quite flexible, and is shaped by the student in consultation with their major advisor and Graduate Advisory Committee. Courses elected shall be consistent with the student's objectives and related to the field in which the degree is to be taken. The plan of study shall consist largely of courses at the 5000's level or above. Not more than 6-credits at the 3000's or 4000's level may be accepted. Course credit by examination is not allowed as a means of accumulating credits to meet the requirements for advanced degrees at this institution.

ANIMAL SCIENCE COURSEWORK REQUIREMENTS: Students must successfully complete the Animal Science Seminar (ANSC 5694) once, and Graduate Presentation Skills (ANSC 5693) once. The thesis defense may not be scheduled to coincide with the required ANSC 5694 presentation.

FINAL EXAM—THESIS DEFENSE: Students must defend their thesis at a public seminar. The defense must be completed no later than one (1) year after completion of coursework or the thesis. Advertising shall include posting flyers in conspicuous areas of relevant buildings, and by contacting the ANSC main office for email distribution. The student must distribute a final "draft" of the thesis to the committee members at least two (2) weeks in advance of the defense date. The public presentation must be attended by at least five (5) Animal Science faculty members (including those on the Graduate Advisory Committee). After the public presentation, attendees will remain for in-depth discussion, followed by the committee alone. Following the presentation, the Graduate Advisory Committee will administer a final examination. The format of this examination is at the discretion of the major advisor and the Graduate Advisory Committee, and its purpose is to assess the student's understanding of the area that they have emphasized, their research, and their thesis. After discussion, the committee will determine the outcome of the exam. The student is required to make all suggested revisions to the thesis, in consultation with their major advisor, prior to final acceptance. The Thesis Submission Checklist must be submitted to the Graduate School with an Approval Page and The Report on the final Examination bearing original signatures of all members of the Graduate Advisory Committee.

PUBLICATION: Students must submit at least one (1) first-author manuscript, suitable for publication, to their major advisor before defending their thesis. In some circumstances, the major advisor, in consultation with the Graduate Advisory Committee, may modify or waive this requirement.

DEPARTMENTAL ASSISTANTSHIPS: Partial or full assistantship support may be offered to students based upon the availability of funding. Funding can come from independent research grants, Hatch projects, or departmentally funded projects through an annual competition. As part of their professional training, all students are required to assist with teaching and/or laboratory assistance as required by the Department at least one course per year. Course assignments are arranged by the Graduate Committee before the beginning of the semester and are communicated by email. Students may not assist with the same course more than twice. Students will be given instructions regarding their duties and responsibilities before the first day of class by the instructors. Students will be evaluated on their performance by the course instructor, and possibly by the students in the class (at the discretion of the course instructor), and satisfactory performance is required. If a student's performance is judged to be unsatisfactory by the course instructor, future assistantship support may be cancelled (at the discretion of the Graduate Committee, in consultation with the Department Head). Students in the Plan A Master's program may be limited to Departmental assistantship support to 2 years. [This requirement was adopted by faculty vote on 10/15/97 and 9/22/00].

EXCEPTIONS: Requests for exceptions to the above rules must be submitted to the Graduate Committee in writing by the faculty advisor. Requests for exceptions cannot override University of Connecticut graduate education regulations. In general, exceptions to departmental regulations are considered only in cases of extenuating circumstances.

Last revised: 27 November 2017

Plan A Master's Degree: REQUIREMENTS CHECKLIST

- ___ SELECTION OF GRADUATE COMMITTEE. Within first year of enrollment. See requirements above.
- ___ PLAN OF STUDY. No later than beginning of final semester. See requirements above.
- ___ SUCCESSFUL COMPLETION OF ANSC 5694 (ONCE) AND ANSC 5693 (ONCE).
- ___ APPLICATION FOR DEGREE. Formal application must be filed on official form at the Graduate School.
- ___ SUBMISSION OF THESIS. A preliminary or "working" copy of the thesis must be distributed to the Graduate Advisory Committee at least two (2) weeks in advance of the oral defense.
- ___ PUBLICATION. Submission of first-author manuscript, suitable for publication, to major advisor prior to thesis defense.
- ___ FINAL ORAL EXAM-THESIS DEFENSE. No later than one (1) year after completion of coursework or thesis.

NOTE: GRADUATE STUDENTS MUST BE REGISTERED FOR CLASSES OR "CONTINUOUS REGISTRATION" THROUGHOUT THEIR COURSE OF STUDY TO REMAIN IN THE PROGRAM.

Minor revisions to this document may be made by the Chair of the Graduate Committee for the purpose of clarity and correctness. Please check the Departmental Website for the most up-to-date version.