***Twin Cities Campus***

# Entomology M.S.

*Entomology*

**College of Food, Agricultural and Natural Resource Sciences**

Link to a list of faculty for this program.

**Contact Information:**
Department of Entomology, 1980 Folwell Avenue, 219 Hodson Hall, St. Paul, MN 55108 (612-624-3636; fax: 612-625-5299)
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Website: http://www.entomology.umn.edu

- Program Type: Master's
- Requirements for this program are current for Fall 2018
- Length of program in credits: 30
- This program does not require summer semesters for timely completion.
- Degree: Master of Science

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.

Entomology centers on the study of insects and includes specializations in ecology, behavior, molecular biology, microbiology, neurobiology, physiology, population dynamics, systematics, and taxonomy. Specialized or applied areas include apiculture, biological control, cell culture, insect conservation, insect-vector relations, integrated pest management, and modeling. Research programs are active in aquatic systems, forest systems, crop and animal agriculture, human health, and natural and urban environments.

## 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.

Other requirements to be completed before admission:
A bachelor's degree with a major in a biological science is a prerequisite. Preference is given to students with a broad background in the basic sciences. Admission depends primarily on applicant's undergraduate record, letters of recommendation, and the statement of interest from the applicant.
GRE scores in Verbal Reasoning, Quantitative Reasoning, Analytical Writing are required.

**Special Application Requirements:**
Applicants must submit a complete set of official transcripts and a clearly written statement of career interests, goals, and objectives, and a diversity statement. Three letters of recommendation are required from persons well acquainted with the student's academic record, and should be either uploaded or sent directly to the department.

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

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

Key to test abbreviations(GRE, TOEFL).

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

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## Program Requirements

**Plan A:** Plan A requires 20 major credits, up to null credits outside the major, and 10 thesis credits.The final exam is oral.

**Plan B:** Plan B requires 30 major credits and up to null credits outside the major.The final exam is oral. A capstone project is required.
**Capstone Project:** 1-3 project reports as directed by the advisor and the advisory committee.

This program may be completed with a minor.

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

A minimum GPA of 2.8 is required for students to remain in good standing.

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

Students must accumulate 2 written examination points.

**Required Coursework**
ENT 5011 - Insect Structure and Function (4.0 cr)
ENT 5021 - Insect Biodiversity and Evolution (4.0 cr)
ENT 5041 - Insect Ecology (3.0 cr)

**Plan Options**

**Plan A Requirements**
**Graduate Seminar**
Take at least 1 credit of the following:
ENT 8300 - Graduate Seminar (1.0 - 2.0 cr)
**Electives**
Take at least 8 credits in consultation with the advisor. Elective courses can be taken from entomology or any University of Minnesota program. Students must work with their advisor(s) when selecting electives outside of the entomology program. Elective courses must be taken at the graduate (4xxx-8xxx) level.
**Master's Thesis Credits**
Take at least 10 master's thesis credits.
ENT 8777 - Thesis Credits: Master's (1.0 - 18.0 cr)

*-OR-*

**Plan B Requirements**
Take 1-6 credits of Independent Research (ENT 5910: Special Problems in Entomology)
ENT 5910 - Special Problems in Entomology (1.0 - 6.0 cr)
**Electives**
Take at least 13-18 credits in consultation with the advisor and the advisory committee. Elective courses can be taken from entomology or any University of Minnesota program. Students must work with their advisor(s) when selecting electives outside of the entomology program. Elective courses must be taken at the graduate (4xxx-8xxx) level.

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