

ENTOMOLOGY AND NEMATOTOLOGY

Entomology and Nematology are interdisciplinary biological sciences that focus on the study of insects, mites, ticks, spiders, nematodes, and related organisms. These creatures can have both helpful and harmful effects on food security, the environment, and the health of humans and other animals. Entomology and Nematology students study ecology, behavior, physiology, evolution, systematics, biodiversity conservation, arthropods of medical and veterinary significance, the management of insect/nematode pests, and invertebrates as models in many different fields of research, including biomedical sciences, bioinspired engineering, and biotechnology.

About this Program

- **College:** Agricultural and Life Sciences (<http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/>)
- **Degree:** Bachelor of Science
- **Specializations:** Biological Science of Insects (http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/ENY_BS/ENY_BS02/) | Preprofessional (http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/ENY_BS/ENY_BS04/) | Urban Pest Management (http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/ENY_BS/ENY_BS07/)
- **Credits for Degree:** 120

To graduate with this major, students must complete all university, college, and major requirements.

Department Information

The Entomology and Nematology Department prepares students for exciting careers in a large variety of fields. Entomology and Nematology majors can enter medical, veterinary, or dental school; progress to graduate study in entomology, nematology, or any of several other biological sciences such as ecology and evolutionary biology, horticulture, or zoology; or move directly to a variety of careers (including industry and government positions) in fields such as pest management, agriculture, ecotourism, biosecurity, science policy, and education

Website (<https://entnemdept.ufl.edu/>)

CONTACT

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Map (<http://campusmap.ufl.edu/#/index/0970>)

Curriculum

- Beekeeping Certificate
- Combination Degrees
- Entomology and Nematology
- Entomology and Nematology Minor
- Entomology and Nematology Minor UF Online
- Landscape Pest Management Certificate
- Medical Entomology Certificate
- Pest Control Technology Certificate
- Urban Pest Management Certificate

The Department of Entomology and Nematology offers the major. Faculty within the department specialize in a diverse array of fields, including systematics and evolutionary biology, ecology, behavior, physiology, medical and veterinary entomology, genomics and molecular biology, apiculture, agricultural and urban pest management, biodiversity conservation, and more. The department has a long tradition of sending students to graduate school and professional programs (including medical, veterinary, and dental school). Given the widespread importance of insects and nematodes, there are many employment opportunities for students with a degree in Entomology & Nematology.

Academic Learning Compact

The Entomology and Nematology curriculum develops an excellent knowledge base and an understanding of concepts and fundamental practices. Through formal courses, laboratory experimentation, and individual research experience, students will learn how the scientific method is applied to the biological world at the whole organism and population levels. Students will learn to evaluate hypotheses, to acquire and interpret experimental data, and to communicate results effectively in appropriate styles. Special focus will be information on insect identification, morphology, behavior, physiology, and ecology.

Before Graduating Students Must

- Pass the Entomology and Nematology competency exam, which will be tailored to individual specializations.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes | SLOs

Content

1. Identify insects and describe and explain insect morphology, physiology, and behavior.

Critical Thinking

2. Acquire, analyze and synthesize entomological information.

Communication

3. Communicate proficiently in the sciences in oral and written forms.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3
AEC 3030C			A
AEC 3033C			A
ENY 3005	I, A	I, A	I
ENY 3005L	A	A	
ENY 4161	R, A		R, A

Assessment Types

- Assignments
- Exams
- Course grades
- Research collection