



ENTOMOLOGY

DEPARTMENT OF ENTOMOLOGY AND WILDLIFE ECOLOGY

Entomology is the study of the most abundant wildlife on Earth--insects--and their interactions with other wildlife, humans, and the environment.

Areas of Emphasis at Delaware

Students who major in Entomology study insect identification, behavior, ecology, structure, physiology and ways to reduce the impact of pest species. The major builds from a core of courses in biology, chemistry, and entomology, and has flexibility in course selection, which allows students to focus on specialties like pest management or insect biology. To ensure breadth in the undergraduate experience, the major requires general education courses in computers, English, mathematics, social sciences, humanities, literature and the arts. In addition, some students choose to pursue a minor in areas like biology, landscape horticulture, agricultural business or Spanish.

What's special about the program?

At the University of Delaware, entomology majors work closely with the department's

faculty, which includes scholars whose interests lie in ecology, behavior, physiology, genetics, morphology, pest management, classification, ornithology, and wildlife conservation. Not only will you learn from your professors in class, but you'll get to know them and seek professional guidance from them outside of lecture and lab. Students here work with faculty on research projects as part of the science and engineering scholars program and in independent studies. You also will have a faculty advisor assigned especially to you for help with course selection, internship advice, and career planning. Our professional relationships with the nearby U.S.D.A. Beneficial Insects Research Laboratory and Dupont Agricultural Products provide great opportunities for internships and part-time employment. For those who want to go beyond the borders of Delaware, winter programs in Costa Rica, Puerto Rico, Ecuador and Tanzania have given students the opportunity to study biodiversity in other ecosystems.

Facilities and Resources

The College of Agriculture and Natural Resources houses the Entomology major, and most of its facilities are openly accessible to students. Most of our classes and laboratory sections meet in Townsend and

Worriw hall, which are part of our 350-acre teaching and research complex. Our farm, located on site, means easy access for field trips to experimental plots, hedgerows, small wetlands, and a 35-acre forest. The department also has collections of preserved insects, amphibians, reptiles, birds and mammals for use in teaching. In addition to these sites, students also routinely use the agriculture library and the college's computing facility, with its web and e-mail access and state-of-the-art software.

Career Paths

Integrated pest management. Biological control. Pesticide research. Forensic entomology. Environmental consulting. Nature education. These careers and more are shared by hundreds of entomology alumni. While some students enter the workforce right after college, others choose to further their education in graduate school, studying subjects like pest management, insect ecology, and genetics. Whatever your goal, you will be encouraged to participate in our job-search workshops and career days, Seek an internship, develop your communication skills, and learn to network with prospective employers. This, in addition to doing well academically, will greatly enhance your post-graduate opportunities.

The Entomology Curriculum

Starting with the first semester, entomology majors usually have at least one course in the department each semester. To earn a bachelor's degree, students must complete **124 credits** and meet specific requirements, as outlined in the University of Delaware Undergraduate Catalog. Each semester's courses will vary, depending on the student's interest, background, and academic preparation. **The following plan is only one example; not every student will take every course in the same order. Most students take 12 -17 credits per term;** winter and summer sessions may be used to lighten the loads of regular semesters. **Students should meet with their academic advisor before registering for any semester.**

Freshman year

Fall Semester

ENWC 165- New Student Seminar (1 cr.) Study and careers in entomology and wildlife conservation. Readings, speakers, discussions, written/oral assignments and field trips

BISC 207- Introductory Biology I (4 cr.)

ENWC 201- Wildlife Conservation and Ecology (3 cr.)

CHEM 103 – General Chemistry (4 cr.)

Mathematics (3 cr.) The first math course, probably pre-calculus or calculus, is determined by student's background and math placement test

Breadth Requirement* (3 cr.)

Spring Semester

BISC 208- Introductory Biology II (4 cr.)

ENGL 110- Critical Reading and Writing (3 cr.)

ENWC 205- Elements of Entomology (3 cr.)

CHEM 104 - General Chemistry II (4 cr.)

Sophomore Year

Introduction to Data Analysis (3 cr.)

Entomology Laboratory (1 cr.)

Intro. to Soil Science (4 cr.)

Breadth Requirements * (3-12 cr.)

Junior and Senior Years

General Ecology (3 cr.)

Insect Identification -Taxonomy (3 cr.)

Field Taxonomy (3 cr.)

Selected Entomology Courses (6 cr.)

Insect Structure and Function (4 cr.)

Introductory Plant Pathology (4 cr.)

Genetics (3 cr.)

Research Methods (3 cr.)

Selected Plant Science and Biology courses (9 cr.)

Senior Capstone Experience (1 cr.)

Breadth Requirements*/Electives (approx. 24 cr.)

**There's a total of 21 University and College Breadth credits required for this degree including a minimum of nine credits from any three different College of Agriculture and Natural Resources subject area codes, outside the subject area codes of the student's major. Twelve credits are required (3 from each) from the following categories: Creative Arts and Humanities; History and Cultural Change; Social and Behavioral Sciences; Mathematics, Natural Sciences and Technology. At least one course in multicultural studies must be taken to fulfill graduation requirements.*

FOR MORE INFORMATION

You are welcome to come talk with us about our majors and the ways in which we can help you reach your goals. Please contact us:



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