



ENTOMOLOGY

DEPARTMENT OF ENTOMOLOGY AND WILDLIFE ECOLOGY

Entomology is the study of 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 biological control or insect behavior. 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?

From freshman orientation to graduation, our majors enjoy close interaction with faculty, who are the common thread in many experiences that make the undergraduate years meaningful. In addition to getting to know faculty as instructors, students work with faculty advisors who assist with course selection, academic issues, and career planning. This relationship is an important one, as students often rely on

faculty for recommendation letters and referrals for jobs and graduate school admissions.

Our majors also may work with faculty as part of the Science Scholars program, here they conduct research, present posters on their findings, and may earn publication in scientific journals. Some students take their research even farther and write and defend a thesis, which earns them a Degree with Distinction. Throughout this process, a faculty mentor guides and advises the student researcher.

Our majors also have the opportunity to earn credits for summer internships both on and off campus. A departmental "Field Agreement" form must be signed and agreed upon with their major advisor. For students who want to learn beyond the borders of Delaware, faculty-led study abroad programs to Costa Rica, Tanzania, Cambodia, Vietnam, and numerous other countries give students the opportunity to study biodiversity in other ecosystems and conservation under the supervision and instruction of UD faculty. In addition to over 200 UD-wide clubs and organizations, our college has over 14 very active college specific clubs including the Wildlife Society and AGCC, our college student council.

Facilities and Resources

Classes and laboratory sections meet both on the main campus and in Townsend Hall, which is the cornerstone of our 350-acre teaching and research complex. Townsend Hall houses faculty offices; teaching and research laboratories; several classrooms; a student Commons; a computing site; and a library branch.

We also maintain an impressive Insect Reference Collection, containing more than 150,000 specimens, as well as extensive collections of birds and mammals, all of which are available for teaching, research, and student projects. Our outdoor research center, located on site, means easy access for field trips to our farm, botanical gardens, field plots, hedgerows, small wetlands, and 35-acre woodlot. An active apiary provides a unique resource for students interested in learning about bees and their behavior. Nearby, several state parks, a wildlife refuge, and many forests offer additional field opportunities for observation and experimentation.

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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& Natural Resources

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