

# Entomology (ENT)

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## **ENT 210. Insects, Humans and the Environment. 3 Credits.**

Insect biology and its relevance to humans and the environment. 2 lectures. F.

## **ENT 350. General Entomology. 3 Credits.**

Fundamental aspects of Entomology, including: insect classification, identification, structure, biology, adaptations, and impact on human society. 2 lectures, 1 two-hour laboratory. F.

## **ENT 410. Integrated Management of Pests. 3 Credits.**

How pests are managed and influenced by the environment, society, economics, and pest biology. This class will look at these factors and how they affect pest management practice across taxonomic groups. Prereq: BIOL 151, ENT 350, PPTH 324, PLSC 323.

## **ENT 431. Principles of Insect Pest Management. 3 Credits.**

This course focuses on integrated pest management of insects and related arthropods. The course will cover information and tactics relevant to using and developing IPM programs (e.g. pesticides, economic thresholds, biocontrol). Prereq: ENT 350. S (odd years) {Also offered for graduate credit - see ENT 631.}.

## **ENT 470. Insect Ecology. 3 Credits.**

This course is an introduction to the fundamental concepts of ecology as they relate to insects. We will emphasize how ecological principles help inform many areas of applied and basic entomological research. Prereq: ENT 350. S (odd years) {Also offered for graduate credit - see ENT 670.}.

## **ENT 631. Principles of Insect Pest Management. 3 Credits.**

This course focuses on integrated pest management of insects and related arthropods. The course will cover information and tactics relevant to using and developing IPM programs (e.g. pesticides, economic thresholds, biocontrol). S (odd years) {Also offered for undergraduate credit - see ENT 431.}.

## **ENT 670. Insect Ecology. 3 Credits.**

This course is an introduction to the fundamental concepts of ecology as they relate to insects. We will emphasize how ecological principles help inform many areas of applied and basic entomological research. S (odd years) {Also offered for undergraduate credit - see ENT 470.}.

## **ENT 741. Insect-Plant Interactions. 3 Credits.**

Insect-plant interactions are a key feature of the terrestrial ecology of our planet. The course will cover plant interactions with both herbivores and pollinators, and will emphasize the behavioral mechanisms insects use to exploit plants.

## **ENT 750. Systematic Entomology. 5 Credits.**

Introduction to systematic methods and principles; identification of common families of insects. F (even years).

## **ENT 751. Immature Insects. 3 Credits.**

Characteristics of the immature forms of the orders and principal families of insects. Prereq: ENT 750. F (odd years).

## **ENT 760. Insect Structure. 4 Credits.**

Structure of insects and physiological functions. The development of adult form from embryonic and larval precursors during growth and metamorphosis; evolutionary development of insect structures. F (odd years).

## **ENT 761. Insect Physiology. 4 Credits.**

Function of major insect organ systems and metabolism, growth, and molting of insects. S (odd years).

## **ENT 765. Biological Control of Insects and Weeds. 3 Credits.**

The natural or applied regulation of pests by predaceous and parasitic insects and pathogens.

## **ENT 770. Writing a Scientific Literature Review. 3 Credits.**

Explore how and why to create a scientific literature review in this writing intensive class. Hands-on exercises will help improve scientific writing, peer-review, and self-assessment while working throughout the semester to create your own review.