

ENTOMOLOGY (ENY)

ENY1001 BUGS AND PEOPLE (3.00 Credits)

A survey course in entomology for non-majors. The focus will be on both beneficial and detrimental impacts of insects and related arthropods and their role in the environment and scientific advancement. Interactions with man, such as insects as international culture, international mythology, disease factors, agricultural pests, urban pests, indicators of environmental health, pollination and forensic crime solving tools will be given emphasis. Both current and historical international events and their impacts will be examined. The students will be given a non-anthropogenic view and expand their knowledge about the abundance and diversity of the largest group of animals on Earth. ENY1101 meets the International/Intercultural competency requirement.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

ENY3005 PRINCIPLES OF ENTOMOLOGY (2.00 Credits)

An introduction to entomology with lecture and labs on insect structure, development, classification, habits and control.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Prerequisite: BSC2010 (minimum grade: C)

ENY3005L PRINCIPLES OF ENTOMOLOGY LAB (1.00 Credits)

An introduction to entomology with lecture and labs on insect structure, development, classification, habits and control.

Total Contact Hrs: 32.00

Lab Hrs: 32.00

Fees: LABORATORY FEE \$50.00

Complete all the courses in the following option:

- Corequisite: ENY3005

ENY3222 BIOLOGY AND IDENTIFICATION OF URBAN PESTS (3.00 Credits)

An instructional program that describes insects. Including life cycle, morphology, physiology, ecology, and taxonomy of urban pests.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Option 1 - Prerequisite: ENY3005 (minimum grade: C) and ENY3005L (minimum grade: C)

ENY3225 PRINCIPLES OF URBAN PEST MANAGEMENT (3.00 Credits)

This course will cover the methods of managing urban pests, such as cockroaches, fleas, termites, flies, stored food pests, and ants. Chemical and nonchemical methods of control will be emphasized.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Pre or Corequisite: ENY3005 (minimum grade: C)

ENY3228 URBAN VERTEBRATE PEST MANAGEMENT (2.00 Credits)

This is a companion course designed to complement ENY-3225, Principles of Urban Pest Management. It covers vertebrate pests and their control in the Urban Environment, principally structural and landscape pests. Much of the information is also applicable to nursery settings.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

ENY4161C INSECT CLASSIFICATION (3.00 Credits)

Classification of major families of adult insects with emphasis on their identification, habitat and niche. A properly curated collection is required.

Total Contact Hrs: 48.00

Lecture Hrs: 32.00

Lab Hrs: 16.00

Fees: LABORATORY FEE \$60.00

ENY4592 MOSQUITO BIOLOGY (3.00 Credits)

Mosquito Biology is an introduction to mosquito classification, natural history, ecology, physiology, population dynamics, mosquito-borne disease and control. The relationships between mosquitoes, humans, and the environment, along with the mechanisms of pathogen propagation and transmission will be emphasized.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

ENY4660 MEDICAL AND VETERINARY ENTOMOLOGY (3.00 Credits)

This course presents the major tick, mite, and insect vectors of disease to man and animals. Students will learn to identify and understand the morphology, behavior and life cycles of disease vectors. Disease-cycles, prevention, impact, and treatment will be discussed. Disease transmission and epidemiology of vector-borne diseases will also be covered.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Option 1 - Prerequisite: BSC2010 (minimum grade: C) and BSC2010L (minimum grade: C) and ENY3005 (minimum grade: C) and ENY3005L (minimum grade: C)

ENY4905 REVIEW OF SCIENTIFIC LITERATURE (0.00 Credits)

A course where critical thinking is developed through the analysis and critique of scientific literature and research.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Option 1 - Prerequisite: BSC4848 (minimum grade: B) and ENY3005 (minimum grade: B), Pre or Corequisite: PCB4454C (minimum grade: B)

ENY4906 DIRECTED ENTOMOLOGICAL RESEARCH (3.00 Credits)

Students (individually or in a group) will conduct research or certain aspects of research projects. This course is intended to help students acquire skills in applying research principles and obtaining practice in rigorous data collection and reporting. Hours may vary. Instructor permission required. The instructor may incorporate 5 or more objectives as appropriate to the given student project.

Total Contact Hrs: 48.00

Other Hrs: 48.00

Complete all the courses in the following option:

- Option 1 - Prerequisite: ENY3005 (minimum grade: C) and ENY3005L (minimum grade: C)

ENY4949 ENTOMOLOGY INTERNSHIP (3.00 Credits)

A course designed to provide training in entomology through work experience. Students are graded on the basis of documentation of learning acquired as reported by student and employer/host. Minimum clock 144 hours required for completion.

Total Contact Hrs: 144.00

Other Hrs: 144.00

Fees: EDU/ACCIDENT INSURANCE \$4.75

Complete all the courses in the following option:

- Option 1 - Prerequisite: ENY3005 (minimum grade: C) and ENY3005L (minimum grade: C)