

ENTO - Entomology

ENTO 510 Insect Ecology: 3 Credits (3 Lec)

Physiological ecology of insects. Influence of biotic and abiotic factors on insect population and community dynamics. Emphasis on seasonal adaptations, dispersion, life table analysis, r and k-selection, ecological methods, and insect-plant interactions. Co-convened with BIOE 422.

ENTO 516 Biosystematics: 3 Credits (2 Lec, 1 Lab)

PREREQUISITE: One of the following: AGSC 454, BIOO 230, BIOO 415, BIOL 433, BIOO 435, BIOO 475, BIOO 470, BIOO 465. Theory and practice of classification. History of taxonomy, use of International Codes of Nomenclature and phylogenetic reconstruction (cladistics). Information retrieval, character generation and computer algorithms in systematics

ENTO 520 Insect Physiology: 3 Credits (3 Lec)

PREREQUISITE: BIOO 262IN and one of the following: BIOH 340, BIOO 412, BIOO 413, BIOO 433, BIOO 465, ENTO 514, or ENTO 525. The course focuses on a systems physiology approach, emphasizing the principles of insect physiology and insect physiological ecology. Material covered will include the digestive, respiratory, excretory, and circulatory processes, neurophysiology and communication, endocrinology, reproductive systems, muscular systems and locomotion, defensive mechanisms, and water balance. The basic course goal is to provide a strong fundamental understanding of insect physiological function as it relates to the environment. Emphasis will be placed on process comprehension

ENTO 525 Insect Morphology: 2 Credits (1 Lec, 2 Lab)

PREREQUISITE: ENTO 204 and one of the following: BIOL 310, BIOB 420, ENTO 401, ENTO 432, ENTO 510, ENTO 514, ENTO 516, or ENTO 520. The principles of insect morphology and the evolutionary principles behind the diversity of form and function of the major insect and arthropod groups

ENTO 590 Master's Thesis: 1-10 Credits (1 Other)

PREREQUISITE: Master's standing
Repeatable up to 99 credits.

ENTO 592 Independent Study: 1-3 Credits (1 Other)

PREREQUISITE: Graduate standing, consent of instructor, approval of Department Head and Dean of Graduate Studies. Directed research and study on an individual basis
Repeatable up to 6 credits.

ENTO 594 Seminar: 1 Credits (1 Other)

PREREQUISITE: Graduate standing or seniors by petition. Course prerequisites as determined for each offering. Topics offered at the graduate level which are not covered in regular courses. Students participate in preparing and presenting discussion material
Repeatable up to 4 credits.