ENTOM 2120 – Insect Biology - 4 credits.
Instructor: J. Sanderson. Prerequisite or co-requisite: one semester of college biology or permission of instructor.
Lab fee: $25. Introduces the science of entomology, focusing on the systematics, anatomy, physiology, basic and applied ecology, and natural history of insects. Early fall laboratories include field trips to collect and study insects in the natural environment. A personal collection emphasizing ecological, behavioral, and taxonomic categories is a requirement of the laboratory.

Lec: M,W 10:10-11:00 am
Lab: T or W 1:30-4:30 pm

ENTOM 2100 - Plagues and People - (BSOC 2101) 2-3 credits, variable. (Offered alternate years) Instructors: M. Caillaud and L. Harrington

Human diseases transmitted by insects and related forms (arthropods) have affected human lives and society through history. This course focuses on the pathogens, parasites, and arthropods causing human plagues through multiple perspectives (biomedical, social, ethical, cultural). Those plagues that have had the greatest impact on human culture and expression are emphasized.

Lec: M,W 1:30-2:20 pm
Disc: multiple days and times

ENTOM 4521 – Introduction to Disease Vectors Lab- 1 credit. Instructor: L. Harrington

Students that took ENTOM 4520 in Fall 2020 should enroll into ENTOM 4521 if they wish to use this course towards their Group A Entomology requirements. Students are encouraged to enroll in ENTOM 4521 Lab to gain practical skills in arthropod collection and identification. Students will be able to apply knowledge gained from the class in their future roles as public health practitioners or as informed citizens.

Lab: R 1:30-4:30 pm

ENTOM 3200 – Grape Pest Management (PLPPM/VIEN 3200) - 2 credits. Instructors: G. Loeb, K. Perry

Emphasizes general integrated pest management concepts, and the biology and specific management practices pertaining to the major diseases and arthropod pests of grapes with an emphasis on viticulture in the eastern US. Team taught by plant pathologist and entomologist. Includes a Saturday field trip to research vineyards and local commercial vineyards. Emphasis is on providing practical knowledge that will prepare students for the real world of viticulture, within a scientific framework.

Lec: M 9:05-11:00 am

Fall 2021
Entomology
Course Offerings
ENTOM 2500 – Southwest Biodiversity

The Sonoran Desert hosts an impressive array of biological diversity. This course will explore this diversity, with a focus on the insect fauna and the plants they utilize. Specific topics will include collection methods, insect biodiversity, biogeography, and Sonoran Desert plant communities. A one-week field trip will take place over spring break. Students will travel to Tucson, visit the Sonoran Desert Museum, and be housed at the Southwest Field Station.

Course fee: ~$1000.00

ENTOM 2540 - Insect Conservation (BSOC 3441) 3 credits. Prerequisite: entomology or conservation biology course or permission of instructor. Instructor: J.E. Losey.

In-depth look at the concepts and issues surrounding the conservation of insects and other invertebrates. Topics include sampling rare populations; insect conservation genetics; the role of phylogeny in determining conservation priorities; refuge design; saving individual species; plus the unique political, social, and ethical aspects of insect conservation and preservation of their ecological services (i.e., pollination, decomposition, pest suppression, and insectivore food sources).

Lec: T,R 11:25-12:40 pm

UPCOMING: Spring 2022

ENTOM 3310/3311 – Insect Diversity & Evolution 3-4 credits. Instructor: B. Danforth. Prerequisite: ENTOM 2120.

Insects are the dominant terrestrial organisms on planet earth both in terms of the number of species as well as in biomass. This course will provide a detailed look at insect diversity, phylogeny, natural history, and the insect fossil record. We will examine what is known about insect higher level relationships based on morphology and DNA sequence data and explore how phylogenies can be used to examine the evolution of behavior, life history, ecology, and natural history. Students will come away from the class with a deeper understanding of insect biodiversity, evolution, natural history, and phylogeny.

Lec: T,R 9:40am-10:55 am
Lab: T 1:30-4:30 pm

ENTOM 3350 – Naturalist Outreach Practicum - 4 credits. Prerequisite: one college level biology course. Enrollment limited to: juniors, seniors, and graduate students. Instructor: L. Rayor

An interdisciplinary, community engaged service-learning course on how to do effective scientific outreach in environmental and organismal biology (http://blogs.cornell.edu/naturalistoutreach).

The goals of this course are to 1) to train you to speak about science with passion and clarity, 2) to give you experience doing science outreach in different contexts, 3) to expose you to the diversity of careers in informal and formal science education, and 4) to help develop civically engaged outreach leaders of the future. Naturalist Outreach Program will give you outreach experience in classrooms throughout the region. With feedback from peers and instructors, students develop their own biological presentations and display materials.

Lec: R 2:50–5:10 pm
Field: TBD

UPCOMING: NEW COURSE

There will be a new population biology of infectious disease course coming Spring 2022.

This will be a 4 credit course with lab co-taught by Courtney Murdock and Megan Greischar (EEB). The course will introduce students to the field of infectious disease ecology, an area of study that has developed rapidly over the past three decades and addresses some of the most significant challenges to human health and conservation. Students will learn about the incredible diversity of parasitic organisms, arguably the most abundant life forms on the planet, and examine how pathogens invade and spread through host populations.

ENTOM 6900 (BIOEE 6900) Ecology and Evolution of Infectious Diseases. 1 credit. Instructor: Brian Lazzaro

Sem: R 2:00 - 3:00 pm


Sem: F 9:00 – 10:00 am