ENTOM 3410 – Applied Entomology - 3 credits. Letter grades only. Instructor: J. P. Sanderson. This course focuses on how insects affect our daily lives in agriculture, urban and environmental settings and public health. Through hands-on field trips, lectures and laboratory exercises, students will gain an appreciation for and understanding of the biology, ecology, behavior and management of important insects and arthropods. We will explore insects as pests as well as beneficial organisms (e.g. pollinators and natural enemies). We will discuss various past, present and future pest management practices and the effects they have on our society, economy, health and the environment in which we live. The course will emphasize field experiences and discussion of topics. Previous experience in entomology is not required. Lec: M,W 10:10 – 11:00 am. Lab: F 1:25 – 4:25pm.

ENTOM 4730 Ecology of Agricultural Systems (crosslisted). 3 credits. Prerequisite: BIOEE 1610. Instructor: K. Poveda. Through lectures, field trips, case studies and discussions students will gain a broad, working knowledge of agroecology including population, community, evolutionary and ecosystem principles as well as the role of economics and other social processes in agricultural systems. This class also provides students with opportunities to apply ecological concepts to agricultural systems and to develop critical thinking and writing skills. Lec: T,R 2:30-3:45pm; Disc: R 3:45-4:25pm.

ENTOM 3440 - Insect Conservation (crosslisted) (also 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 10:10-11:25am.

ENTOM 3520 lecture / 3521 laboratory - Medical Veterinary Entomology – Prerequisite: one college-level biology course or permission of instructor. Instructor: L.C. Harrington. Diseases resulting from arthropodborne pathogens (such as malaria, Zika virus, dengue, and yellow fever) cause considerable human and animal suffering and death worldwide. The course offers a contemporary overview of insects and related forms and how they impact human and animal health. Concepts in medicine, entomology, genetics and evolution will be discussed within the context of public health/one health. This is a good course for students interested in vector biology, medical school or careers in public health or veterinary medicine. This course can be taken with or without the laboratory section (ENTOM 3521). Lec: T,R 8:40-9:55am. Lab: R 1:25-4:25pm.

For full course descriptions: http://courses.cornell.edu/
ENTOM 3350 - Naturalist Outreach Practicum 4 credits. Prerequisite: one college-level biology course. Enrollment limited to: juniors, seniors, and graduate students with permission of instructor. Instructor: L. S. 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, display materials, and teacher resource guides. Lec: R 1:25 – 4:25pm.

ENTOM 3360 - Naturalist Outreach Continued 1-2 credits, variable. Prerequisite: ENTOM3350. Permission of instructor required. Instructor: L. S. Rayor. If you have already taken ENTOM 3350, you can continue to do outreach in the community for credit. Open only to students who have already taken ENTOM 3350. Lec: R 1:25-4:25pm.


ENTOM 3310/3311 - Insect Diversity & Evolution 3-4 credits. Instructor: E. Murray. 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 11:40am - 12:55pm; Lab: T 1:25-4:25pm.

ENTOM 2100 - Plagues and People - (crosslisted) BSOC 2101 2-3 credits, variable. (Offered alternate years) Instructor: M. Caillaud. 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 12:20-1:10pm, Disc: multiple days and times.

ENTOM 2120 – Insect Biology 4 credits. Instructor: Cole Gilbert. Prerequisite or co-requisite: one semester of college biology or permission of instructor. Lab fee: $40. 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: T,R 10:10-11:00am; Lab: W or R 1:25-4:25pm.