

INSECTS AND PLANTS

Spring 2017

Credits: 1

Course number: IDH2930 (section 1334)

Schedule: Thursday period 8 (3-3:50 pm)

Location: McGuire Center for Lepidoptera and Biodiversity room 217, Florida Museum of Natural History, 3215 Hull Rd., Powell Hall

Instructors

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Office hours

By appointment or drop by office of Dr. Sourakov

Course description

Insects and plants are intimately connected and have been so for 300 million years. During this time, the evolutionary arms-race between the two groups has produced examples of co-existence more fantastic than any science-fiction. During this course we will use the textbook to stimulate more in-depth discussions of diverse topics linked to insect-plant interactions, including co-evolution, chemical ecology, predator-prey relationships, mimicry, natural selection, camouflage, host-mediated speciation and adaptive radiation. In addition to lectures and discussion sessions, students will have a chance to visit the collections of the Florida Museum of Natural History and of the Division of Plant Industry, in addition to the Natural Area Teaching Laboratory located behind the Florida Museum of Natural History, and the Chemical Ecology Laboratory of USDA. Students will gain an appreciation and understanding of the evolution of two of the most important groups of organisms on the planet, in addition to developing their ability to think critically about scientific research. This course is intended to stimulate interest in the natural world, in which insects and plants form the great majority of species, and there are no prerequisites beyond a fascination in the diversity of life.

Objectives and basis for grading

Lectures

Short lectures during each class will provide an introduction and describe classical and contemporary research relevant to each week's topic. Students will be introduced to a broad variety of research methods and will learn

