INSECTS AND PLANTS
Fall 2020

Credits: 1
Course number: ENY 4932, Class Number: 23262, Section: AB01
Schedule: Tuesday period 3 (9:35 am – 10:26 am)
Location: Online, via Zoom (unless notified otherwise)

Instructors
Dr. Andrei Sourakov
Dr. Keith Willmott
McGuire Center for Lepidoptera, Room 212 (second floor)
Florida Museum of Natural History
Powell Hall on Hull Road
UF Cultural Plaza
PO Box 112710
TEL: (352) 273-2013
Email: asourakov@flmnh.ufl.edu

Office hours
By appointment

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 common empirical patterns, processes and theories proposed to explain them. Additional articles from the primary scientific literature may be suggested or required as background reading in preparation for each lecture.

Class discussion
During each class, we will have time for discussions of the course textbook. All students are expected to contribute in class and the overall grade will reflect this contribution. Students are not expected to fully understand any set literature, but are expected to come to class with at least two questions prepared about aspects of the literature reviewed, including concepts that they do not understand or would like to discuss further.
<table>
<thead>
<tr>
<th>Activity</th>
<th>% of final grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance</td>
<td>50</td>
</tr>
<tr>
<td>Class discussions</td>
<td>50</td>
</tr>
</tbody>
</table>

A = 95-100%
A- = 90-94%
B = 85-89%
B- = 80-84%
C = 75-79%
C- = 70-74%
D = 65-69%
D- = 60-64%
E = <60%

**Current UF grading policies**
See: [https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx](https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx)

**Class attendance, work and exam policies**

Students are expected to attend all classes unless there are valid reasons for absence, and part of the grade will reflect class attendance. Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: [https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx](https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx)

**Textbook will be provided to students on loan hence not required.**

**CLASS READING ASSIGNMENTS**

**WEEK 1**
September 1
Introduction

**WEEK 2**
September 8
CLASS DISCUSSION: *Insects and Plants*: pp. xix-xxv, 1-18

**WEEK 3**
September 15
CLASS DISCUSSION: *Insects and Plants*: pp. 19-37

**WEEK 4**
September 22
CLASS DISCUSSION: *Insects and Plants*: pp. 38-54

**WEEK 5**
September 29
CLASS DISCUSSION: *Insects and Plants*: pp. 55-69
WEEK 6
October 6
CLASS DISCUSSION: Insects and Plants: pp. 70-85

WEEK 7
October 13
CLASS DISCUSSION: Insects and Plants: pp. 86-105

WEEK 8
October 20
Insects and Plants: 106-112

WEEK 9
October 27
CLASS DISCUSSION: Insects and Plants: pp. 113-126

WEEK 10
November 3
CLASS DISCUSSION: Insects and Plants: pp. 127-141

WEEK 11
November 10
CLASS DISCUSSION: Insects and Plants: pp. 142-155

WEEK 12
November 17
CLASS DISCUSSION: Insects and Plants: pp. 156-169

WEEK 13
November 24
CLASS DISCUSSION: Insects and Plants: pp. 170-185

Week 14
December 1
TBD

WEEK 15
December 8
TBD