

Insect Ecology
 Course number: 16:370:525

Lecture Topic	Reading /Guest Lecturer
Introduction and Scope	Chpt 1, 14
Behavioral Ecology	Chpt 2 (except 2.7) & 3
Evolutionary Ecology	Chpt 1.6, 4.6
Trophic Interactions 1 – Chemical communications	Cesar Rodriguez Chpt 2.7
Herbivory	Chpt 4
Mutualism, symbiosis and competition	Chpt 5 & 6
<i>Midterm</i>	
Trophic Interaction 2 – Predator/Prey Dynamics	Chpt 7 & 8
<i>No Class</i>	<i>Spring Break</i>
Population Biology 1	Chpt 9 & 10
Population Biology 2	Chpt 11
Food webs	Chpt 12 & 13
<i>Student presentations</i>	
Invasion Ecology	Chpt 15.4 Term paper/grant proposal due
Future and Applications– conservation, climate change, fragmentation; community ecology	Chpt 15.2
<i>Final Exam</i>	

Class will be a mix of lecture and discussion. The course will use the 2011 textbook: “Insect Ecology” by Price, Denno, Eubanks, Finke and Kaplan. For each topic there will also be seminal papers about ecological theory (as it relates to insects) or species/system specific papers that provide good examples of the topic. Each student will lead at least one paper during a discussion period. Students are expected to distribute 4 questions on each paper to the class the day before. One or two weeks prior to the grant proposal due date, students will send an outline of objectives and hypotheses tested.

You will be evaluated on:

10%	Discussion participation
30%	Midterm (written)
30%	Term paper/presentation
30%	Final (oral)