

Field Zoology Lecture BIOL 209

Fall 2009

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Office hours : Mondays, 10:00 AM - 12:00 PM

Ms. Heather Axen (GTA)
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Office Hours: TBA

Lecture: 8:30AM – 9:20 AM, MW, 203 Torrey Hall
Laboratory: Tuesday, 11:30 AM - 2:15 PM or 2:30 PM to 5:15 PM, 202 Torrey Hall

Textbook: *Evolution of the Insects*, Grimaldi and Engel

Objectives: To expose students to the natural history, taxonomy, evolution and ecology of insects, the planet's most diverse lineage of life.

Exams: There will be four lecture exams (including the final) during the semester. All regularly scheduled lecture exams will be a combination of multiple choice, definitions, and short-answer essay. The second and third exams are not cumulative; the final exam is cumulative. If for some reason you cannot attend an exam, make-ups will be given for excused absences arranged in advance. Make-up exams will be entirely essay format.

I do not offer extra credit.

Grading:

	Points
Lecture (~60%)	
Exam I	100
Exam II	100
Exam III	100
Final Exam	100
Lab (~40%)	
Insect collection	150
Notebook	50
Practical	100
Total:	700

UVM's Values and Policies

Learning Accommodation: If you need learning accommodation, you must notify me within the first week of class. Adaptations and instructional supports are available through consultation with the instructor and UVM's Office of Accommodation, Consultation, Collaboration & Educational Support Services (ACCESS: <http://www.uvm.edu/~access/>). Only students properly registered with ACCESS will receive learning accommodation. See policy on disability certification and student support: <http://www.uvm.edu/~uvmppg/ppg/student/disability.pdf>

Religious Holidays: Students have the right to practice the religion of their choice. If you need to miss class to observe a religious holiday, you must submit the dates of your absence to me in writing by the end of the second full week of classes. You will be permitted to make up work within a mutually agreed-upon time.

Preferred Name and Pronoun Information: Any student at the University of Vermont can indicate a preferred first name and pronoun to the university community regardless of whether there has been a legal name change. Utilizing this process will result in changes in the following areas: CATcard, Degree Audit Reporting System, Grade Reports, Advisee Lists, Unofficial Transcripts, Library sign-out process, Directory Listing (unless you have chosen FERPA Exclusion; see below). Information on how to change your preferred name and pronoun are housed on the Registrar's Preferred Name and Pronoun Website. Also available are instructions for how to change your email address to use your preferred name.

Student Responsibilities and Rights

Academic Integrity: UVM's Code of Academic Integrity addresses plagiarism, fabrication, collusion, and cheating. The code will be enforced. Please familiarize yourself with it: <http://www.uvm.edu/~uvmppg/ppg/student/acadintegrity.pdf>

Grading Policies: For information on grading and GPA calculation, go to <http://www.uvm.edu/academics/catalogue> and click on Policies for an A-Z listing.

Grading Appeals: If at some point you believe you have received an unfair course grade, you may want to consult UVM's policy on grade appeals: <http://www.uvm.edu/~uvmppg/ppg/student/gradeappeals.pdf>

FERPA Rights Disclosure: The purpose of this policy is to communicate the rights of students regarding access to, and privacy of their student educational records as provided for in the Family Educational Rights and Privacy Act (FERPA) of 1974: <http://www.uvm.edu/~uvmppg/ppg/student/ferpa.pdf>

August

31 Course Introduction, and The Importance and Dominance of Insects..... 1

September

2 The Importance and Dominance of Insects (continued)..... 1
 4 Insect Taxonomy and Evolution 1
 7 Labor Day (no classes)
 9 The Fossil Record, and the Origin of Insects..... 2
 11 Insect External Morphology 4
 14 Insect External Morphology 4
 (Add/Drop, Pass/No Pass, Audit Deadline)
 16 Insect Internal Morphology, Physiology
 18 Early Insects, and the Origin of Flight..... 5-6
 21 Review for Exam I
 23 **Exam I**
 25 Insect Diversity and Classification: Polyneoptera I (Embioptera, Zoraptera,
 Plecoptera, Dermaptera, Grylloblatodea, Mantophasmatodea)..... 7
 28 Insect Diversity and Classification: Polyneoptera II (Phasmatodea, Orthoptera,
 “Blattaria,” Isoptera, Mantodea..... 7
 30 Insect Diversity and Classification: Paraneoptera I (Psocoptera, Phthiraptera,
 Thysanoptera)..... 8

October

2 Insect Diversity and Classification: Paraneoptera II (Hemiptera) 8

 5 Insect Diversity and Classification: Holometabola (origins, Neuropterida)..... 9
 7 Insect Diversity and Classification: Coleoptera I 10
 9 Fall Recess (no classes)
 12 Insect Diversity and Classification: Coleoptera II 10
 14 Insect Diversity and Classification: Panorpida I (Mecoptera, Siphonaptera)..... 12
 16 Insect Diversity and Classification: Panorpida II (Diptera, Strepsiptera)..... 12
 19 Insect Diversity and Classification: Amphiesmenoptera I (Trichoptera,
 Lepidoptera) 13
 21 Review for Exam II
 23 **Exam II**
 26 Insect Diversity and Classification: Amphiesmenoptera II (Lepidoptera cont.) 13
 28 Insect Diversity and Classification: Hymenoptera I 11
 30 Insect Diversity and Classification: Hymenoptera II..... 11

November

2 Insect Societies I: Natural History 11 (in part)
 4 Insect Societies II: Group and Kin Selection 11 (in part)
 6 (Last Day to Withdraw)
 9 Insect Societies III: Honey bee Dance Language
 11 Insect Societies IV: Self-Organization
 13 Guest Lecture: Ms. Heather Axen
 16 Insects and Plants

- 18 Review for Exam III
- 20 **Exam III**
- 23 Reproduction
- 25-27 Thanksgiving holiday (no classes)
- 30 Medical Entomology, Pest Management and Agricultural Entomology

December

- 2 Insect Symbioses
 - 4 Film
 - 7 Insect Defense
 - 9 Review for Final Exam
- 18 FINAL EXAM, 11:45 - 02:45 PM TORREY 203**

Note: This schedule is subject to change.