

IB401 - Introduction to Entomology Fall 2012

Instructor: Dr. Larry Hanks, 420 Morrill Hall, hanks@life.illinois.edu
Office hours: By appointment

Teaching Assistant: Fred Larabee, 689 Morrill Hall, 333-3687, larabee@life.illinois.edu
Office hours: During lab and by appointment

Lecture: 2 hours weekly (1:00 PM Monday and Wednesday, 163 Noyes)
Laboratory: 3 hours weekly (9:00 – 11:50 AM on Monday or Wednesday, 408 NHB)

Information about the course, announcements, etc. will be posted on **Illinois Compass**.

I. Course Objectives

The basic objective of this course is to introduce you to the subject of insect biology.

Specific objectives include:

- Introducing the evolution and life-histories of the major insect groups (lecture)
- Introducing basic insect morphology and the techniques of insect identification (lab)
- Examining the basic principles of insect physiology, behavior, and ecology (lecture)
- Demonstrating selected principles of insect physiology, behavior, and ecology (lab)

II. Examinations and Grading

Your final grade for the course will be calculated as:

Lecture: 60%
Laboratory: 40%

In turn, the grades for these components will be calculated as:

Lecture:	Exam 1:	30%	
	Exam 2:	30%	
	Final:	40%	
Laboratory:	Practicals:	60%	
	Drawings:	10%	
	Lab write-ups:	10%	
	Report:		20%

The course grade will then be derived directly from your overall numerical average:

90 - 100% = A
80 - 89% = B
70 - 79% = C
60 - 69% = D
<60% = F

Additional Information Pertaining to the Lecture Exams:

Attendance of lecture is mandatory, per University policy. The professor will keep a record of students that repeatedly fail to attend lecture, and the School office will be notified. Students that habitually miss lecture will not receive a grade for the course.

Lecture exams will total 100 points and will be drawn from the lecture material. Exams will be written such that the answers, in the form of multiple choice questions, can be completed in one hour. Sample questions will be provided prior to the first exam, but there will be no formal review sessions. Exams must be taken on scheduled dates, regardless of whether exams in other courses are scheduled on the same day. In other words, there will be no “conflict exams” available.

Students that miss an exam must have a valid excuse, as documented by a letter from the Emergency Dean (<http://www.odos.illinois.edu/deanon-duty/>) to take a make-up exam. The student must request the letter within 24 h of the scheduled exam. Make-up exams will be oral and conducted by the instructor or the TA within a week of the exam date. Questions will be drawn from lecture materials, and will be different from those used in the exam, but of similar difficulty.

The three-hour Final Exam will be cumulative over the entire course, but half of it will emphasize the final third of the course. The format for the Final will be the same as the two other exams.

III. Extra Credit Option: 1 additional credit (or 1/4 unit) can be earned by turning in an insect collection. Entomology graduate students are required to make a collection. If you elect this 4-credit option, your grade for the course will be calculated as follows:

Lecture	45%
Laboratory	30%
Collection	25%

The lecture and laboratory grades are calculated as for the 3-credit (3/4 unit) option.

IV. Texts (required texts in stock at the UI bookstore):

Recommended (not required) lecture text:

Gullan and Cranston's The Insects: An Outline of Entomology

Required lab texts:

J. L. Castner. Photographic Atlas of Entomology and Guide to Insect Identification.

Strongly recommended lab text for students that do collections:

E. R. Eaton and K. Kaufman, Kaufman Field Guide to Insects of North America, Houghton Mifflin Co.

Recommended additional lab texts:

Borror, Triplehorn, and Johnson. An Introduction to the Study of Insects; 7th Edition (2004). A few copies of this rather expensive text will be available in the

laboratory, principally for students making collections. It can be special ordered from the Bookstore.

V. Special needs

If you need accommodations for any sort of physical or learning disability, please tell the professor and TA at the beginning of the course.

<i>Date</i>	<i>Lecture #</i>	<i>Topic</i>
August	27	1 Introduction to the course, grading policy, etc.
	29	2 Origin of the Insects
September	3	Labor day holiday
	5	3 Insect Diversity: Entognatha, Apterygotes to Paleoptera
	10	4 Polyneoptera
	12	5 Paraneoptera
	17	6
	19	7-8 Neuropterida, Coleoptera, Strepsiptera
	24	9 Mecoptera, Diptera, Siphonaptera
	26	10 Trichoptera, Lepidoptera
October	1	No class
	3	Exam I (Covering Lectures 2-10)
	8	11 Hymenoptera
	10	12
	15	13 Habitat and life style
	17	14
	22	15
	24	16 Anatomy, Physiology, and Development
	29	17
	31	18 Sensory Systems and Behavior
November	5	19
	7	20 Sensory Systems and Behavior
	12	Exam II (Covering Lectures 11-18)
	14	21 <i>Movie Secret Weapons</i>
	19	<i>Thanksgiving break</i>
	21	
	26	22 Sensory Systems and Behavior
	28	23
December	3	24 The Insect Societies
	5	25
	10	26 Insects and people
	12	27 Course wrap-up
	18	FINAL: Tuesday, 1:30-4:30 PM, in lecture room