

IB401 - Introduction to Entomology - Fall 2023

Instructor: Dr. Larry Hanks, 420 Morrill Hall (hanks@illinois.edu)

Office hours: By appointment

Teaching Assistant: Jared Martin (jaredmm3@illinois.edu)

Office hours: During lab and by appointment

Lecture: 2 hours weekly (MW 9:00 – 9:50 PM in 163 Noyes Lab)

Laboratory: 3 hours weekly (Friday 9:00 – 11:50 AM, or 1:00 – 3:50 PM, 4072 NHB)

Information about the course, announcements, updates, etc. will be posted on **Moodle**

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I. Student learning outcomes

At the end of this course, students will:

- 1) be able to identify the orders, and many families of insects
- 2) have a broad understanding of insect physiology, behavior, and ecology
- 3) understand the evolutionary history of insects
- 4) appreciate how insects come into conflict with humans, and inspire innovation in engineering and other sciences that benefit humans

II. Examinations and Grading

If taking the 3-credit option, 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%

III. Extra Credit Option: 1 additional credit (or 1/4 unit) can be earned by turning in a larger insect collection (as will be explained by the TA). Entomology graduate students are required to take the 4-credit hour option. In that case, 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.

Laboratory percentages determined by the TA:

Practicals:	30%
Drawings:	5%
Lab write-up:	15%
Quizzes:	30%
Presentation:	10%
Report:	10%

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

A: 90 – 100%

B: 80 – 89%

C: 70 – 79%

D: 60 – 69%

F: <60%

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 dean of the student's college will be notified. Students that habitually miss lecture may be required to withdraw from the course.

Academic integrity: According to the Student Code: 'It is the responsibility of each student to refrain from infractions of academic integrity, from conduct that may lead to suspicion of such infractions, and from conduct that aids other in such infraction.' Please know that it is the responsibility of the instructor to uphold the academic integrity policy of the University, which can be found here: <https://studentcode.illinois.edu/>

Lecture exams will total 100 points and will be drawn from the lecture material. How the exams will be taken has yet to be determined. 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"**. Exceptions will be made for the final exam, per the student code: <https://studentcode.illinois.edu/>

Students that miss an exam must have a valid excuse, as documented by a letter from the Dean on Duty (link below) 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.

<https://deanofstudents.illinoisstate.edu/contact/#dean-on-duty>

The three-hour **final exam** will be cumulative over the entire course, but half of it will emphasize the first two thirds of the course in lesser detail. The format for the Final will be the same as the two other exams, but the date is not yet known.

IV. Recommended texts (none required)

For lecture:

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

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.

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Recommended additional lab text:

Borror, DeLong, 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.

Lecture Topics and Exam Schedule

IB401: *Introduction to Entomology* – Fall 2023

Date	Date	Day	#	Topic
August	21	M	1	Introduction to the course, grading policy, etc.
	23	W	2	Origin of the Insects
	28	M	3	Hexapod diversity: Entognatha, Apterygotes to Palaeoptera
	30	W	4	Polyneoptera
September	4	M		Labor Day (no classes)
	6	W	6	Paraneoptera
	11	M	7	Neuropterida, Coleoptera, Strepsiptera
	13	W	8	Mecoptera, Diptera, Siphonaptera; Trichoptera, Lepidoptera
	18	M	9	Hymenoptera
	20	W	10	Diversity wrap-up
	25	M		Exam I (Covering Lectures 2 – 9)
27	W	11	Insects and Humans	
October	2	M	12	" " "
	4	W	13	" " "
	9	M	14	" " "
	11	W	15	Habitat and Life Style
	16	M	16	" " "
	18	W	17	" " "
	23	M	18	" " "
	25	W	19	Reproduction, Development, and Physiology
	30	M		Exam II (Covering lectures 10 –18)
November	1	W	20	Reproduction, Development, and Physiology
	6	M	21	Sensory Systems and Simple Behaviors
	8	W	22	" " "
	13	M	23	" " "
	15	W	24	" " "
	20	M		Thanksgiving break
	22	W		
	27	M	25	Sensory Systems and Simple Behaviors
	29	W	26	The Insect Societies
December	4	M	27	" " "
	6	W	28	Course wrap-up
	?	?		Final (?? in the lecture room)