

Syllabus, Entomology 1001

Laboratory Fall 2011

Month	Date	Laboratory	Laboratory Topic
August	22/23	1	Introduction, checking out collecting equipment, and announcing the first two assignments: 1) Students are to collect, for the August 29/30 laboratory, insects to pin and point (beetles and ants will do; someone bring a moth, too!). We will pin and point the insects in the August 29/31 laboratory. When you collect these insects, simply put them into a zip-lock plastic bag, place the bag (with insects) into the freezer, and bring them to the lab on August 29/30. 2) For the September 12/13 laboratory, students are to collect three examples of insect ‘damage’, along with the insects that caused that damage (if possible). READ LABORATORY MANUAL CHAPTER 3
August	29/30	2	Preservation and care of insect collections. A ‘hands-on’ session of pinning insects and spreading the wings of moths/butterflies. READ LABORATORY MANUAL CHAPTER 3.
September	5/6	–	No laboratory – Labor Day holiday –
September	12/13	3	Insect damage and telltale signs. BRING TO LAB YOUR THREE EXAMPLES OF INSECT DAMAGE AND THE INSECTS THAT CAUSED THE DAMAGE.
September	19/20	4	Insects and their relatives. READ LABORATORY MANUAL CHAPTER 1. <i>Project topic suggestions due.</i>

Month	Date	Laboratory	Laboratory Topic
September	26/27	5	External insect anatomy. READ LABORATORY MANUAL CHAPTER 4. <i>Project title due.</i>
October	3/4	6	Anatomical modifications and specializations. READ LABORATORY MANUAL CHAPTER 5.
October	10/11	7	Insect identification. READ LABORATORY MANUAL CHAPTER 8.
October	17/18	8	Insect orders – Collembola to Phasmida – READ LABORATORY MANUAL CHAPTER 9.
October	24/25	9	Insect orders – Orthoptera to Dermaptera – READ LABORATORY MANUAL CHAPTER 9. <i>Completed outline of project due.</i>
October/ November	31/1	10	Insect orders – Plecoptera to Neuroptera – READ LABORATORY MANUAL CHAPTER 9.
November	7/8	11	Insect orders – Coleoptera to Hymenoptera – READ LABORATORY MANUAL CHAPTER 9.
November	14/15	12	Immature insects and metamorphosis. READ LABORATORY MANUAL CHAPTER 7. <i>Rough draft of project paper due</i>
November	21/22	13	Internal insect anatomy. READ LABORATORY MANUAL CHAPTER 6.
November	28/29	14	Laboratory examination (50 points). <i>Final draft of project paper due. Insect collections due.</i>

PLEASE NOTE: The laboratory examination will be worth **50** points.

Insect Collection: Your insect collection will be worth **50 points**. If you choose to make a collection, you have the potential to make an additional *25 points of extra credit!*

PLEASE NOTE: *all specimens in your collection must be adults!* Grading for insect collections will be as follows:

Required: 50 different species of insects. These must represent 10 different insect orders.

Extra credit: 1 additional point for each species beyond 50.

2 additional points for the 11th insect order.

3 additional points for the 12th insect order.

4 additional points for the 13th insect order.

5 additional points for the 14th insect order.

6 additional points for the 15th insect order.

7 additional points for the 16th insect order.

– etc. –

PLEASE NOTE: *collected specimens must bear the label of the collector; a failure to do so will constitute an act of academic dishonesty.*

Project/report: Please read chapter 11 of your laboratory manual. You will be required to submit a written report (minimum 3 pages, maximum 5 pages; 12 point font). You will *not* be required to make an oral presentation.

Grading of project:

25 points for adherence to project timeline (please see pages 1 and 2 of this syllabus for dates on which assignments are due)

25 points for the quality of the written report:

sentence structure 5

paragraph structure 5

transitions 5

grammar/spelling/punctuation 5

report “flow” or design 5

Total for project/report 50 points

Finally, some point deductions for insect collections:

Points Deducted	Reasons for deducting points
1	Pointing a specimen when it should be pinned.
1	Pinning a specimen when it should be pointed.
1	Failing to spread lepidoptera wings.
1	Poor or improper spreading of lepidopteran specimens.
1	Failing to label a specimen (1 point per specimen).
2	Incorrect identification of an insect order.
2	For each order less than 10.
2	Having at least one immature in your collection.
10	Having fewer than 50 species.

Total possible laboratory points = 100

Total possible extra credit points = 25 (collection only!)