

**ENY 4060L, Entomology Laboratory
Spring 2017**

This course will emphasize knowledge of the morphology, taxonomy and habits of adult insects.

Meeting time: Wednesday, 9:00 - 11:50 AM.

Classroom: OE 169.

Instructors: Carlos Ruiz (carlosruiz78@gmail.com), Jeffrey Wells (jedwell@fiu.edu)

Office/office hours/Mr. Ruiz: ECS110, by appointment

Office/office hours/Dr. Wells: OE203, TU/TH 2:00-4:00PM

Prerequisites: General Biology I BS 1010, and General Biology II BSC 1011, or permission of the instructor. Corequisite ENY4060.

Textbook: Borror, DJ & White RE (1998) A field guide to the insects. 2nd Edition. Houghton Mifflin Harcourt. **Bring the textbook to every class period.**

Grading

The curve will be based on the mean of the two highest point totals achieved by a student in the course.

>90% of the highest total = A.

>78% = B.

>64% = C.

>50% = D.

Quizzes = 120 pts

Student insect collection = 150 pts

Other courses use the same room, giving us a limited time window for setting up and removing material for each lab exercise or exam. **Therefore no make up of in-class work, including a quiz, will be permitted in the event of an absence. A student who misses a quiz because of an official FIU or other authorized (e.g. U.S. military) absence will be given an opportunity to make up the points via an alternate assignment.**

A quiz will often be given **at the beginning of a class period** and covering material from the previous week. Some collection progress milestones should be achieved by a given date (see schedule below). Failure to do these on time will result in points deducted from what you have earned.

INSECT COLLECTION: The collection should include adult insects representing at least 40 species and 8 taxonomic orders, all of which should be properly preserved and labeled and identified to the level of family. There will be opportunities to show your collection to the instructors for feedback prior to the deadline. There will be a grade penalty for a collection turned in late. Insect collecting equipment and preservation materials will be provided.

Tentative Schedule of Lab Topics

DATE	TOPIC	TEXT pp.
Jan. 11	Lab introduction. External anatomy	29-37
Jan. 18	Arthropod diversity	48-56
Jan. 25	Collecting and preserving insects	4-22
Feb. 1	Collecting and preserving insects cont'd. Explanation of insect collection grading.	
Feb. 8	Primitively wingless insects, mayflies, damselflies & dragonflies	57-75
Feb. 15	Polyneoptera	76-102
Feb. 22	Paraneoptera	102-140
Mar. 1	Neuroptera and Coleoptera, must have collected at least 200 specimens sorted by order	140-154
Mar. 8	Coleoptera continued	154-206
	SPRING BREAK	
Mar. 22	Trichoptera and Lepidoptera	210-259
Mar. 29	Diptera	260-307
Apr. 5	Hymenoptera	312-362
April 12	Preliminary check of pinning/labeling, 30 prepared specimens required by end of class	
April 19	Collection and any checked-out collection equipment due by the end of the class period	
By app't	Come in during finals week to review/retrieve collection	

Expected learning outcomes

By the end of this course students should have a basic understanding of field entomology, insect identification, insect natural history, and how to make an insect collection. They will be able to recognize many of the common arthropods encountered in daily life.