

ENY 3005: Principles of Entomology, Lecture Class

General Syllabus



If you are a student in this course, please download the syllabus for your semester through Sakai. The schedule and assignments vary a bit each term.

Professor:

Dr. Christine Miller
Office: 2101 Entomology Building
E-mail: cwmiller@ufl.edu.

Lectures: Tues. & Thurs. period 3 (9:35 - 10:25am); Room 1031 Entomology Building.

Dr. Miller's office hours: 10:25 to 11:00 am Tuesdays and Thursdays, and by appointment.

A graduate student TA will assist with grading and exam reviews.

ENY 3005 Homepage: <http://entomology.ifas.ufl.edu/miller/eny3005/>

All course materials are on Sakai. You can access Sakai through the ENY 3005 Homepage.

Purpose and Teaching Objectives

ENY 3005 provides an introduction to the study of insects while simultaneously addressing fundamental concepts in ecology, evolution, and behavior. The diversity, abundance, and short generation times of insects has made them excellent organisms for the study of such broad concepts in biology. The focus of this course will be on such concepts; however, this course will also include a firm foundation in entomological terminology. After this semester, students should be able to speak the "language of Entomology". This course provides a framework for understanding the world of insects, their evolutionary history and the ecological significance and will prepare students for higher-level entomology and biology studies. This is a *science* course and is intended to encourage thinking about the processes of science.

Overall course objectives

- 1) Improved understanding of the nature of science.
- 2) Knowledge of the insect orders.
- 3) Ability to explain the anatomy, physiology, and behaviors of insects.
- 4) Recognition of the ecological and evolutionary importance of insects.
- 5) Ability to analyze and critique the primary scientific literature and then make it understandable to your peers.



Required Textbook: Daly and Doyen's Introduction to Insect Biology and Diversity by Whitfield and Purcell, 3rd Edition. It is available at the Bookstore and online, e.g. <http://www.amazon.com/Doyens-Introduction-Insect-Biology-Diversity/dp/0195380673>

Video: Students are expected to watch the Life in the Undergrowth series, which is described here: <http://www.bbc.co.uk/sn/tvradio/programmes/lifeintheundergrowth/>. Students are responsible for locating and viewing these videos outside of class time. The videos can be rented through Amazon.com and Netflix. Two copies are also on course reserves at the Marston Science Library. Please be aware that going to the library the day the questions on the videos are due is probably not a good idea due to competition with other students for the video.

Course notes, slides, reading, and other materials: Available on or through Sakai. All exam questions will be based on these notes and the lecture materials.

Grading: Grades are a measure of the quality of student work, not a measure of personal worth.

Assignments vary a bit each semester, but here is an example:

17 short Sakai quizzes due 10pm the evening before each class period (5pts each)	85 points
Eight in-class exercises (5pts each)	40 points
Hexapod order quiz	25 points
Four assignments (25pts each)	100 points
Critical assessment of group presentations	10 points
Group Presentation <u>or</u> term paper (your choice)	50 points
Two Mid-Semester Examinations (100pts each)	200 points
<u>Comprehensive</u> Final Examination	<u>100 points</u>
Total Points Available	610 points

Final grades are based on percentages of total points possible. The exam and quiz scores are not curved. After the first eight in-class exercises, any other in-class exercises will provide up to five bonus points. Another five bonus points will be awarded to students bringing in insect galls at the designated time, assuming instructions are followed. There may be one or two opportunities for additional bonus points announced in class. Students in previous semesters have found the extra points really help.

Grade and associated percent ranges %

A	93-100	A-	90-92	B+	88-89
B	83-87	B-	80-82	C+	78-79
C	73-77	C-	70-72	D+	68-69
D	63-67	D-	60-62	E	<60



Absences: If you miss a lecture, it is YOUR responsibility to acquire notes from classmates. **Do not ask the instructor for these materials.**

If you miss an exam there will be no make-up available unless you have a valid physician's note indicating reasons for the absence. Students with such valid notes will be allowed to take a make-up examination that will have an **oral** component.

Late work: The scores on late assignments are reduced by 5 points per day. Once the graded assignments are returned to the class, late assignments will no longer be accepted.

Final exam: If you have a conflict with the scheduled time (listed in the course schedule below), you should talk to me by the designated date; otherwise the exam time is not negotiable.

Disability status: Please inform Dr. Miller as soon as you can if you have disability status

Learning Strategy: This is an upper division course at a major university. Thus, students have major responsibilities in the learning process. You will be expected to review the major concepts of each topic BEFORE classtime. Study guide questions and quizzes are provided to help you keep on track. On occasion, students will be required to watch lectures in advance so that class time is freed up for activities designed to aid learning. Please feel free to ask questions in class, email, or come to office hours as you prepare for exams. If you do not, the instructor will assume you have read and fully understand classroom material.

Photos: Alex Wild, <http://www.alexanderwild.com/>

Sample Schedule, Fall 2014: This schedule is the most dynamic part of the course. The instructor will make every effort to disseminate information pertinent to each week as far in advance as possible. Please check the course Sakai page on the internet prior to each class period. **Readings/media for each class period includes the study guides, the textbook, and anything else posted in the Sakai folder for the topic.**

Week and Dates	Topic	Important events	Sakai quiz due?	Reading & Media (always refer to study guides)
Week 1 Aug. 26 & 28	Significance and diversity of insects What is an insect?		none	Text: Chapter 1
Week 2 Sept. 2 & 4	Insect evolution (macro-evolution)	Quiz on hexapod orders on Thursday in class	Mon 10pm	Text: Chapter 16
Week 3 Sept 9 & 11	External morphology	Assignment #1, The work of Dr. Emlen, due Wednesday, 10pm	Mon 10pm	Text: Chapters 2 & 3
Week 4 Sept 16 & 18	Internal anatomy, physiology, and development		Mon & Wed 10pm	Recorded lecture modules AND Text: Chapters 4 & 5, Chapter 11, pages 247-249
Week 5 Sept 23 & 25	Sensory systems and behavior		Mon & Wed 10pm	Text: Chapter 6
Week 6 Sept 30 & Oct 2	Tuesday - Group discussion on interpreting scientific publications Insect evolution (micro-evolution)	Assignment #2 due Monday, 10pm . Bring an extra copy of both your assignment and the scientific paper to class – <i>no</i> excuses accepted for late work	Wed 10pm	Study guide only
Week 7 Oct 14 & 16	Continued...	Exam 1 on Thursday in class covering material through insect evolution	Mon 10pm	
Week 8 Oct 21 & 23	Sexual selection in insects Insects and plants	Sign up for semester project this week (term paper or group presentation).	Mon & Wed 10pm	Study guide Text: Chapter 9
Week 10 Oct 28 & 30	Continued... Pest management	Five bonus points for bringing in insect galls on Tuesday . Debate in class Thursday. Assignment #3 due Thursday 10pm	Mon 10pm	Text: Chapter 13
Week 11 Nov 4 & 6	Social insects Predation and parasitism Insect defense	Assignment #4(semester project assignment)due Thursday, 10pm	Mon & Wed 10pm	Text: Chapter 7 Text: Chapter 8, pages 199-211; Text: Chapter 10
Week 12 Nov 13	Continued...		Mon 10pm	
Week 13 Nov 18 & 20	Medical and veterinary entomology Undergraduate group presentations (A)	Term paper due Wednesday, 10pm (students may opt to give group presentation instead)	Mon 10pm	Text: Chapter 12
Week 14 Nov 25	Undergraduate group presentations (B)	Critical assessment of group presentations due Tuesday in class, 10points .	none	
Week 15 Dec 2 & 4	Insect conservation, Course evaluations		Mon 10pm	Text: Chapter 14
Week 16 Dec 9		Exam 2 on Tuesday in class	none	
Week 17 Dec 17		Comprehensive Final Exam on Wed., 5:30-7:30pm in Rm 1031	none	

Grades and Grade Points

For information on current UF policies for assigning grade points, see <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

Absences and Make-Up Work

Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

Academic Honesty

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: *"We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity."* You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: *"On my honor, I have neither given nor received unauthorized aid in doing this assignment."*

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: <http://www.dso.ufl.edu/SCCR/honorcodes/honorcode.php>.

Software Use:

All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

Campus Helping Resources

Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575, www.counseling.ufl.edu/cwc/

Counseling Services
Groups and Workshops
Outreach and Consultation
Self-Help Library
Training Programs
Community Provider Database

Career Resource Center, First Floor JWRU, 392-1601, www.crc.ufl.edu/

Services for Students with Disabilities

The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation

0001 Reid Hall, 352-392-8565, www.dso.ufl.edu/drc/

Plagiarism: The UF Science and Engineering policy about plagiarism is located at <http://www.uflib.ufl.edu/msl/07b/students.html>. You are expected to understand this policy. Please let us know in advance of turning in your assignments if you do not understand the policy. Plagiarism will not be tolerated in this course.