

ENY-5223C, Biology and Identification of Urban Pests Distance Education

My goal for this distance education class is to maintain the same schedule as students taking the class on campus and in the classroom. Lectures, official syllabus, official course schedule, class notes, and assignments are available for download from the University of Florida eLearning (Sakai) (<http://lss.at.ufl.edu>) website. The site is restricted to only students officially enrolled in the class. The following is a general concept for keeping on schedule:

Lectures M W-- Lectures should be accomplished on or before the date listed

Laboratories F-- Activities due and submitted to instructor by email on date listed

Instructor: Philip G. Koehler

Office: Urban Entomology Building, Bldg 1278

Phone: 352-392-2484

Email: pgk@ufl.edu

Office Hours: 8:00-5:00 weekdays

Sakai Website: <http://lss.at.ufl.edu> (login with gatorlink username and password)

Pre/ Co-requisite: ENY 3005- Principles of Entomology

Email - each student must have an active email account. The **University of Florida requires that you obtain a student ID # and a [Gatorlink email account](#) as part of your registration process.** The instructor may post class notices to your Gatorlink email account. While many of you already have independent email accounts, you must also obtain a University of Florida Gatorlink email account for use as a registered student. [Please send the instructor an email message as soon as you have successfully registered for this course.](#)

Course Objectives:

1. Learn to recognize wood destroying insects and their damage and understand their biology and life cycles.
2. Learn to recognize cockroaches, their biology, and life cycles.
3. Identify blood-sucking insects and understand their biology
4. Recognize pest ant species and their colony structure.
5. Recognize important stored food pests.

Critical Thinking: Urban pests are found in many situations and are difficult to recognize. Students will be expected to identify the insect pest and recognize the damage they cause. Emphasis will be on determining ways to prevent infestations based on the pest's biology.

Special Research Project: Each student will be responsible for a written research report and presentation. The topic must be approved by instructor, and should be an in-depth review of the scientific literature. The research project report must be written as a scientific paper in Entomological Society of America format. Powerpoint presentation and written script will be a 10 minute scientific paper suitable for presentation at a scientific meeting. Student has the option of presenting the research project orally, on site in Gainesville, or by submission of the presentation and script for a grade. More information is at the end of the syllabus.

Text: Mallis, Arnold. *Handbook of Pest Control*. 10th Edition. 2011 Mallis Handbook Co., Cleveland, OH. ISBN: 978-1-890561-02-4. Library of Congress Catalogue Card No.: 2010928977

Grading: The exams will be timed exams taken on Sakai. The final exam will be comprehensive of all lectures. The laboratory portion is based on an unweighted grade for all the assessments (30 laboratory assessments, exam 1 lab grade, exam 2 lab grade, final lab exam grade, and final exam grade. Students can do the on-line laboratory activities as often as necessary until the due date and turn in the best grade obtained. The course is based on 1100 total points:

Exam 1	200 points
Exam 2	200 points
Final exam	300 points
Special research project --	200 points
Laboratory	200 points

Grading scale (%):

94-100	A
90-<94	A-
87-<90	B+
83-<87	B
80-<83	B-
77-<80	C+
74-<77	C
70-<74	C-
67-<70	D+
64-<67	D
60-<64	D-
<60	E

Class Zipped files: Contain lectures, reading assignments, class notes, class schedule, and syllabus. The files should be downloaded from Sakai

Lecture Notebook: Print this on your own. You can have it printed/bound at a copy store if you desire.

Laboratories: Assignments are laboratory activities located at the Sakai website. The site is restricted to only students officially enrolled in the class. Assignments are usually due on Mondays and must be completed on or before the date listed.

Academic Honesty:

As a result of completing the registration form at the University of Florida, every student has signed the following statement: "I understand that the University of Florida expects its students to be honest in all their academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University".

We, the members of the University of Florida, pledge to hold ourselves and peers to the highest standards of honesty and integrity.

UF Counseling Services:

Resources are available on campus for students having personal problems or lacking clear career and academic goals which interfere with their academic performance. These resources include:

1. University Counseling Center, 302 Peabody Hall, 392-1575 personal and career counseling
2. Student Mental Health, Student Health Care Center, 392-1171, personal counseling
3. Sexual Assault Recovery Services, Student Health Center, 392-1161, sexual counseling
4. Career Resource Center, Reitz Union, 392-1601, career development assistance and counseling

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 damage and/or criminal penalties for the individual violator. Because such violations are against University policies and rules, disciplinary action will be taken, as appropriate.

Information for Students with Disabilities:

Students with disabilities are encouraged to register with the Office for Student Services to determine the appropriate classroom accommodations. Any student requesting classroom accommodations must be registered with the Dean of Students Office, P202 Peabody Hall, 392-1261(TDD - 392-3008), and have documentation on file in the office of Student Services in order to receive classroom and/or examination accommodations. For students with hearing disabilities trying to contact an office that does not list a TDD, please contact the Florida Relay Service at 1-800-955-8771.

Plagiarism.

Plagiarism is a serious violation of the [Student Honor Code](#). The Honor Code prohibits and defines plagiarism as follows:

Plagiarism. A student shall not represent as the student's own work all or any portion of the work of another. Plagiarism includes (but is not limited to):

- a. Quoting oral or written materials, whether published or unpublished, without proper attribution.
- b. Submitting a document or assignment which in whole or in part is identical or substantially identical to a document or assignment not authored by the student.
(University of Florida, Student Honor Code, 15 Aug. 2007
<<http://www.dso.ufl.edu/judicial/honorcode.php>>)

University of Florida students are responsible for reading, understanding, and abiding by the entire [Student Honor Code](#).

Important Tip: You should never copy and paste something from the Internet without providing the exact location from which it came.

UF Policy on E-mail:

“Official University business email will be communicated to students using the University GatorLink email account. That is, official email will be sent exclusively to

GatorLinkUserName@ufl.edu. The preferred email address recorded for all students will be the GatorLink address. This is the email address displayed in the online phonebook. Students may continue to use the forwarding mechanism to deliver their email to other mail services, if they wish. However, it is the student's responsibility to insure that the forwarding address is current so that they receive official communications from the University".

Course Directions

Log onto Sakai website (<http://lss.at.ufl.edu>) (login with UF gatorlink username and password).

If you have difficulty, contact the instructor.

- a. Click on Lectures
- b. Click on desired Download (e.g., ENY3222 CD1)
- c. If yellow security bar appears, click and allow download
- d. Extract the zip files to a zipfolder and then to your hard drive or flash drive

1. Read the assignment in textbook for each class before listening to the lecture.
2. Print the lecture notes for each class. You may want to go to a copy store to have the notes printed and bound.
3. Put lecture notebook and pen/pencil at a convenient place in front of a computer.
 - A. You will need sound so make sure the computer has speakers and sound capabilities turned on.
 - A. Windows
 1. Go to Windows desktop.
 2. Double click "My computer"
 3. Double click on the ".exe" or ".html file
 - B. Mac : the CD may not work properly on a Mac computer
4. Each lecture has
 - A. A title slide that has the time you need to plan for completion of each lecture.
 - B. An objectives slide that presents the objectives of each lecture.
 - C. Content slides that present the lecture information
 - D. Practice essay questions slide: These are for studying. Exams will usually be multiple choice questions.
 - E. A closing video that summarizes the information and presents the next reading assignment.
4. View each slide. Start each lecture by clicking on the menu on the left. Sound or video is played automatically for each slide.
 - A. The next slide is advanced automatically.
 - B. You can control the sound/video volume and replay sound by sliding the bar controls.
 - C. Video can be advanced or rewound by sliding the bar under the video.
 - C. You can go to other slides by clicking on the menu at the left side of screen.
5. As each slide is playing sound, take notes in the lecture notes.

Lecture Subjects

1. Overview of Urban Entomology
2. Orders of Arthropods that are Urban Pests
3. Cockroaches
4. Cockroaches (Problems)
5. Cockroaches (Blattellidae)
6. Cockroaches (Blattidae)
7. Composition and Structure of Wood
8. Termites
9. Subterranean termites
10. Non-Subterranean termites
11. Wood-boring Beetles
12. Wood Decay & Other WDOs
13. Pests in Damp Locations
14. Delusory Parasitosis
15. Biting flies & Mosquitoes
16. Lice & bugs
18. Bedbugs
19. Fleas
20. Ticks and Mites
21. Pests of Fabric
22. Pests of Paper
23. Ants
24. Pest Ants
25. Wasps
26. Bees
27. Spiders and Scorpions
28. Envenomization
29. Stored Food Pests
30. Filth Flies & Small Flies (Gnats)

Research Report Requirements

1. Select a specific topic. You may want to select a topic that has been addressed in Annual Review of Entomology articles. Do not choose a general topic select one that addresses a very specific issue.
2. Your job is to dig up and read as many of the original literature papers as possible on the subject and summarize them for publication as an Annual Review of Entomology article of your own.
3. Update the publications with more current literature.
4. Include pertinent data tables and graphs from other researchers in the article.
5. The article must be written in Entomological Society of America format. The style manual is located at: <http://www.entsoc.org/pubs/publish/style>
6. The article must be at least 12 double-spaced pages in length. It should be set up as a manuscript ready for submission to ESA. I will take off for bad formatting.

7. The sections must be Title page, Abstract, Key Words, Body of Report, Literature Cited, Tables, List of Figures, and Figures on separate pages.

In addition to the report, I expect you to prepare a Powerpoint presentation on the subject of the report. The Powerpoint presentation should be in a format for presentation as a 10-minute paper at the ESA annual meeting. I expect the Powerpoint presentation to follow the material in the research report and be scripted so you could go to ESA and present the talk by reading the script.