

**ENY-5226C, Principles of Urban Pest Management Distance Education, 3 Credits,
Syllabus, Spring 2023**

Instructor: Dr. Michael E. Scharf
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Office: Steinmetz Hall 3101
Office Hours: By appointment
Canvas Website: <https://elearning.ufl.edu> (login with UF Gatorlink username and password)

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.

Course Description and Learning Objectives: This is an *asynchronous online** course that covers the methods of managing urban pests, such as cockroaches, fleas, termites, flies, stored food pests, and ants. Chemical and nonchemical methods of control will be emphasized, along with safety, laws and regulations. Through completing the course students will be expected to:

1. Know the different categories of urban pest insects and how they are targeted based on their biology & behavior.
2. Know the steps involved with managing urban pests by chemical, non-chemical and integrated (IPM) approaches.
3. Know where and how insecticides are applied in urban settings.
4. Know the classes of insecticides used for urban pest management, their modes of action, and how insecticide resistance develops.
5. Know the fundamentals of pesticide safety, as well as pest control laws and regulations.

* "Asynchronous online" means the course will consist of online lectures, labs and learning materials only, to be completed by students independently on their own schedule. However, exams and assignments will be done according to a set schedule. A course schedule is available on the Canvas eLearning site. Students are expected to regularly consult this schedule and be aware of upcoming deadlines.

WEEKLY ZOOM MEETINGS - Fridays @ 1:00PM EST (not required but any course material is open for discussion) Join Zoom Meeting: <https://ufl.zoom.us/j/94158818356>

Critical Thinking & Communication Report: Critical thinking & communication for the graduate version of the course (ENY5226) will be evaluated by writing a report to develop a situational pest management plan for a specific urban pest insect. The plan should use refereed scientific literature as much as possible to (1) detail the biology of the pest and (2) the specific problem or challenges of the situation, and (3) integrated approaches to be used for controlling the pest. The project will take the form of a written report in Word (2000-2500 words in length).

Laboratories: Assignments are multiple choice laboratory activities located at the Canvas website. Students can do the on-line laboratory activities as often as necessary until the due date and will get credit for the best grade obtained for each assessment.

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 (Available at PCT Store for \$79 [<https://store.pctonline.com/en/mallis-handbook/>])

Grading: The exams (lecture & lab) will be timed exams.. The final exam (lecture & lab) will be comprehensive of all lectures. The course is based on a total of 1300 points:

| Course item | Points | Date(s) |
|------------------------------------|------------|--------------------|
| Exam 1 | 200 points | Feb 6-8 |
| Exam 2 | 200 points | Mar 8-10 |
| Final Exam | 200 points | May 1-3 |
| Laboratory Assignments | 200 points | Multiple due dates |
| Laboratory exam 1 | 75 points | Feb 6-8 |
| Laboratory exam 2 | 75 points | Mar 8-10 |
| Laboratory final exam (cumulative) | 150 points | May 1-3 |
| Critical Thinking Report | 200 points | Apr 26 |

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

Specific Evaluations: Your grade in the course will be based on the points you earn and determined by the percentage breakdown of points earned. The percentage is then applied to the grading scale. Lecture exams 1, 2, and the final exam will be timed exams. Final exams (lecture and laboratory) will be comprehensive. The “critical thinking & communication” project will be graded by evaluating the written and presentation components equally (i.e. 100 points per component) based on (1) depth of content and (2) clarity.

Class files: Lectures, reading assignments, class notes, class schedule, and syllabus. The files are available on the Canvas eLearning course site.

Grades and Grade Points

For information on current UF policies for assigning grade points, see <https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/> .

Absences and Make-Up Work

Since this is an asynchronous online course there are no attendance requirements; however, requirements for make-up exams, assignments and other work are consistent with university policies that can be found at: <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>.

Online Course Evaluation Process

Student assessment of instruction is an important part of efforts to improve teaching and learning. At the end of the semester, students are expected to provide feedback on the quality of instruction in this course using a standard set of university and college criteria. Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at:

<https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at: <https://gatorevals.aa.ufl.edu/public-results/>.

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/process/student-conduct-honor-code>.

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.

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, <https://disability.ufl.edu/>

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
- U Matter We Care, www.umatter.ufl.edu/
- *Career Resource Center, First Floor JWRU, 392-1601, www.crc.ufl.edu/*
- Student Success Initiative, <http://studentsuccess.ufl.edu>.
- Student Complaints:
 - Residential Course: <https://sccr.dso.ufl.edu/policies/student-honor-code-studentconduct-code/>.
 - • Online Course: <http://www.distance.ufl.edu/student-complaint-process>

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 Tips: You should never copy and paste something from the Internet without providing

the exact location from which it came. The course instructor also is trained in the use of plagiarism detection tools and software.

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”.

UF POLICIES:

UNIVERSITY POLICY ON ACCOMMODATING STUDENTS WITH DISABILITIES: Students requesting accommodation for disabilities must first register with the Dean of Students Office (<http://www.dso.ufl.edu/drc/>). The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. You must submit this documentation prior to submitting assignments or taking the quizzes or exams. Accommodations are not retroactive, therefore, students should contact the office as soon as possible in the term for which they are seeking accommodations.

UNIVERSITY POLICY ON ACADEMIC MISCONDUCT: Academic honesty and integrity are fundamental values of the University community. Students should be sure that they understand the UF Student Honor Code at <http://www.dso.ufl.edu/students.php>.

****NETIQUETTE: COMMUNICATION COURTESY:** All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats. <http://teach.ufl.edu/docs/NetiquetteGuideforOnlineCourses.pdf>

GETTING HELP:

For issues with technical difficulties for E-learning, please contact the UF Help Desk at:

- Learning-support@ufl.edu
- (352) 392-HELP - select option 2
- <https://lss.at.ufl.edu/help.shtml>

**** Any requests for make-ups due to technical issues MUST be accompanied by the ticket number received from LSS when the problem was reported to them. The ticket number will document the time and date of the problem. You MUST e-mail your instructor within 24 hours of the technical difficulty if you wish to request a make-up.**

Lecture Subjects

1. Pest Management & Insecticide Labels
2. Insecticide Mode of Action, Part I
3. Insecticide Mode of Action, Part II
4. Insecticide Mode of Action, Part III
5. Insecticide formulations & poisonings
6. Sites of urban insecticide application
7. Urban insecticide application equipment
8. Control of domestic cockroaches (Blattellidae)
9. Control of Peridomestic cockroaches (Blattidae)
10. Subterranean termite control with soil termiticides
11. Subterranean termite control with soil termiticides
12. Subterranean termite control with baits
13. Drywood termite control techniques
14. Structural fumigation
15. Control of Wood Destroying Beetles
16. Concepts of mosquito control
17. Control of human lice
18. Control of fleas
19. Bedbug control
20. Silverfish control
21. Pest ant control
22. Fire ant control
23. Bee control
24. Wasp control
25. Control of filth breeding flies
26. Stored food insect control
27. Commodity fumigation
28. Control of occasional invaders
29. Pesticide safety
30. Pest control laws and regulations