IPM 4114/6021 Insect Pest and Vector Management
Summer C 2025
100% Online (Asynchronous), 3 Credits

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Paula.moraes@ufl.edu (please contact through Canvas messages and always copy the TA)
Zoom Office Hours are available Tuesdays and Thursdays from 4-4:45 pm EST (3-3:45 pm - Instructor is in CST). https://ufl.zoom.us/j/96045488860?pwd=rLNawDMGQLyzSPssPp30bhD4oigjQ0.1
Please message on Canvas if you are planning to attend.

Dr. Tolulope Agunbiade (Recorded Lecturer)

Claudia Alzate (Teaching Assistant)
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Zoom Office Hours are available Tuesdays and Thursdays from 4-4:45 pm EST.
https://ufl.zoom.us/j/96045488860?pwd=rLNawDMGQLyzSPssPp30bhD4oigjQ0.1
Please message on Canvas if you are planning to attend.

Course Description
This course covers the principles and practices used in insect pest and vector management and emphasizes the arthropod pests affecting crops and ornamental plants, humans, and livestock.

Course Delivery Mode
The course is delivered 100% online and asynchronously. The course content is available through the course website in Canvas. Each week, students are required to view the module content and complete the required assessments prior to the assigned due dates in order to complete the course requirements. The modules and assignments will be open and available from the first day of class.

Course Prerequisites
ENY 3005 (Principles of Entomology), or any introductory course in entomology.

Course Learning Objectives
After completing this course, students will be able to:
1. Describe the philosophy of integrated pest management.
2. Assess the management approaches available to pest managers, including the advantages and disadvantages of each.
3. Formulate the most appropriate pest management tactic for each pest situation.
4. Develop critical thinking skills for decision making in pest management.
5. Communicate pest management issues in written and oral formats.

Learning Materials and Supplies

Course Textbook
The following textbook is required for this course:

- Vvan Emden H. F. and M. W. Service. 2004. Pest and vector control. Cambridge University Press. 349 pp.
- This textbook is available free of charge as an e-book through the UF libraries with your Gatorlink login. If you are accessing the library off-campus, log into the UF VPN to get library access.

Instructor Interaction Plan

Example:

- In your messages to the instructor, make sure you ALWAYS copy both the instructor and the TA.
- Send messages to communicate with us using Canvas. In this way, your message would not risk being buried in the high volume of emails we receive every day.
- If you want to talk to the instructor or the TA, please message and book to attend office hours.
- Please do not wait until the weekend to complete assignments. We may not be available to answer emails or messages during the weekend.
- Make sure you turn on notifications on your Canvas to receive real time posts and check the "Announcement" session on Canvas at least once a day.
- I invite your feedback in both midterm and end-of-term GatorEvals and plan to continuously improve student experience within the course. Your opinion is highly valued.

Required Technology & How to Obtain the Technology

The University of Florida expects students entering an online program to acquire computer hardware and software appropriate to their degree program. Most computers can meet the following general requirements. A student's computer configuration should include:
- Webcam
- Microphone
- Broadband connection to the internet and related equipment (cable/DSL modem)
- Microsoft Office Suite installed (provided by the university)

Individual colleges may have additional requirements or recommendations, which students should review before starting their program.

If you cannot afford the required technology, please contact the libraries to be loaned equipment. Visit the following website to see all technology available to you as a student:
https://librarywest.uflib.ufl.edu/technology/borrowing-equipment/

Required Technology & Digital Information Literacy Skills

To complete your tasks on this course, you will need a basic understanding of operating a computer and using word processing software.

Digital information literacy skills may include:

- Using online libraries and databases to locate and gather appropriate information
- Using computer networks to locate and store files or data
- Using online search tools for specific academic purposes, including the ability to use search criteria, keywords, and filters
- Analyzing digital information for credibility, currency, and bias (e.g., disinformation, misinformation)
- Properly citing information sources
- Preparing a presentation of research findings

Honorlock

Honorlock is an online proctoring service that allows students to take exams on-demand 24/7. There are no scheduling requirements or fees. You will need a laptop or desktop computer with a webcam, a microphone, and a photo ID. The webcam and microphone can be either integrated or external USB devices. Honorlock requires that you use the Google Chrome browser and that you must add the Honorlock extension to Chrome. For further information, FAQs, and technical support, please visit Honorlock.

Zoom

Zoom is an easy-to-use video conferencing service available to all UF students, faculty, and staff that allows for meetings of up to 100 participants. You can find resources and help using Zoom at the University of Florida's Zoom website.

Communication Guidelines

Real-time notifications from Canvas

The student must turn on the notification system on Canvas to receive real-time alerts and updates about the course. Be sure to disable your pop-up blocker to prevent receiving content in Canvas and check the announcement section in Canvas at least once daily. This link provides instructions on how to do it: How do I manage my Canvas notification settings

Questions About the Course

Questions to the instructor should be submitted through Canvas and remember to ALWAYS copy the TA. In this way, we will be able to keep track of the messages during the busy research time of summer and answer you as soon as possible.

Accommodation letter

Students requesting special accommodation should submit the accommodation letter to the instructor during the first week of the course.

Online Netiquette

For all online class engagements, it is required that students:

- Do not use offensive language.
- Present ideas appropriately.
- Respect one another and the opinions of others in class.
- Act professionally.

Technical Support

UF Computing Help Desk & Ticket Number: All technical issues require a UF Helpdesk Ticket Number. The UF Helpdesk is available 24 hours a day, 7 days a week. https://helpdesk.ufl.edu/ | 352-392-4357

Weekly Course Schedule

Week	Topic	Required Reading	Task/Assignment - check Canvas for deadlines
Week 1 (May 12-16)	Course orientation and introductions Module 1 – Insects and humans	van Emden and Service, Chapter 1	• Introduce yourself! • Syllabus quiz Discussion 1 • Quiz 1
Week 2 (May 19-23)	Module 2 – Causes of pest and vectored disease outbreaks	van Emden and Service, Chapter 2	• Discussion 2 • Quiz 2
Week 3 (May 26-30)	Module 3 – Sampling and monitoring of arthropods	PDF file available in Canvas	• Discussion 3 • Quiz 3 • Exam 1
Week 4 (June 2-6)	Module 4 – Insecticides: Applications, and problems with using insecticides	van Emden and Service, Chapters 3 - 5	• Discussion 4 • Quiz 4
Week 5 (June 9-13)	Module 5 – Environmental and cultural control	van Emden and Service, Chapters 6	• Discussion 5 • Quiz 5 • Assignment #1 – Extension Poster
Week 6 (June 16-20)	Module 6 – Biological control and insect pathogens	van Emden and Service, Chapters 7 - 8	• Discussion 6 • Quiz 6 • Exam 2
Week 7 (June 23-27)	Module 7 – Genetic control and area-wide management	van Emden and Service, Chapter 9	• Discussion 7 • Quiz 7
Week 8 (June 30-July 4)	Module 8 – Attractants, repellents, and pheromones	van Emden and Service, Chapter 10	• Discussion 8 • Quiz 8 • Assignment #2 – Understanding the pesticide label and

Week	Topic	Required Reading	Task/Assignment - check Canvas for deadlines
			prescribing management control
Week 9 (July 7-11)	Module 9 – Host plant resistance	van Emden and Service, Chapter 11	• Discussion 9 • Quiz 9
Week 10 (July 14-18)	Module 10 – Physical control	van Emden and Service, Chapter 12	• Discussion 10 • Quiz 10
Week 11 (July 21-25)	Module 11 – Concepts of pest and vector management	van Emden and Service, Chapter 13	• Discussion 11 • Exam 3
Week 12 (July 28-August 1)	Grading		

Disclaimer: This syllabus represents current course plans and objectives. It is subject to change as necessary. Such changes will be communicated clearly to students, and the necessary adjustments to the course schedule and deadlines will be made.

Grading Policy

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

The course grade is based on performance in the exams, quizzes, participation in discussion activities, and the pest management report (for graduate students only). The final grade will be assigned as follows:

Course Grading Structure

	Undergraduate			Graduate		
Course Requirements	**Point Value**	**Total Grade Points**	**In 100% scale**	**Point Value**	**Total Grade Points**	**In 100% scale**
Introduce Yourself! Discussion	35	35	10	5	5	1
Syllabus Quiz	30	30	8	5	5	1
Perusall Discussions	10 each	110	29	10 each	110	28
Quizzes	5 each	50	13	5 each	50	13
Exams	50 each	150	40	50 each	150	38
Assignment#1	n/a	n/a		45	45	11
Assignment#2	n/a	n/a		30	30	8
Total		**375**	**100**		**395**	**100**

Please, be aware that the questions from PlayPosit, have five points, but **are not calculated into the final grade** and have the objective of practice and real time feedback of your learning in each module.

Grading Scale

A grading scale (chart) may be done by total points or percentage of total points but should clearly show the required performance for each letter grade. Plus (+) and minus (-) grades may be used but are not required. There is no standard grading scale (e.g., level of performance for an A grade) in CALS or at UF. See the current UF grading policies for more information.

Final grade	Scale: Percentage
A	92-100
A-	90-91
B+	87-89
B	83-86
B-	80-82
C+	77-79
C	73-76
C-	70-72
D+	67-69
D	63-66
D-	60-62
E	<60

Information on current UF grading policies for assigning grade points is at: catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx.

Student Assessment

Course Requirements: There are 3 examinations, 11 graded discussions, 11 quizzes, and 3 assignments (required for graduate students only) to complete the course requirements. The deadlines for assignments are firm. Exceptions will be considered ONLY for valid reasons (see below under Assignment Make-Up Policy).

Exams: There are 3 closed-book examinations throughout the course. Notes are not to be consulted for exams. Your browser will be locked, and browser activity will only be limited to exam content. All examinations are 30 questions, 20 multiple-choice questions, and 10 true/false questions, and are worth 50 points. Each exam will be made available and accessible in Canvas from 8:00 am EST on Mondays till 11:59 pm EST on Saturdays of the exam week. The exams are proctored using HonorLock. Students are, therefore, required to have a stable internet connection to be able to take the exams. The computer being used must have a camera. There is a time limit for the exams, and once you begin the exam, you will have 50 minutes to complete it in a single session. So, do not open the exam until you are ready to complete it.

Quizzes: There are 11 close-book quizzes (5 points each) throughout the course. The quizzes consist of 5 multiple-choice questions. The quizzes will be made available and accessible in Canvas from 8:00 am EST on Mondays till 11:59 pm EST on Saturdays of the quiz week. Once you begin the quiz, you will have 7 minutes to complete it in a single session. So, do not open the quiz until you are ready to complete it. There are 11 quizzes throughout the semester but your lowest quiz score for the semester will be dropped, and your grade for the quiz component will be based on the best 10 of 11 quizzes.

Discussions: There are 11 discussion assignments (10 points each) throughout the course. Articles/publications relevant to each module will be posted every week. Students are required to read

and review the articles in Perusall. The discussions portal will be available and accessible in Perusall from 8:00 am EST on Mondays till 11:59 pm EST on Saturdays of the discussion week. Some of the quiz and exam questions will be derived from these articles. Students may, in addition, cite educated and reliable sources such as opinions, technical reports, websites, and press releases to support their reasoning. Students are also required to respond to at least two of the comments/posts made by other students for each discussion. You will not receive any grade if you do not comment/post at all or if you simply post "I agree". Each discussion will be open for one week. There will be more information on using Perusall for the discussion on the assignment page in Canvas.

Attendance & Make-up Work

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/

Extra Credit

There is no extra credit offered for the course, but the points for the Discussion posts do add up. Students are advised to submit their posts even if they are late by at least a few points.

Technical Difficulty Policy

In the event of a technical difficulty with the exam, students should contact the UF IT help desk (http://helpdesk.ufl.edu/) and/or Honorlock support. Request to re-take an exam from a student without first contacting the UF IT Help Desk and/or Honorlock will not be considered.

Academic Honesty

The university requires all members of its community to be honest in all endeavors. Cheating, plagiarism, and other acts diminish the process of learning. When students enroll at UF, they commit themselves to honesty and integrity. Your instructor fully expects you to adhere to the academic honesty guidelines you signed when you were admitted to UF.

Plagiarism is the use of ideas or writings produced by someone else. You should not use the writings of another person, including material from the internet (WWW), without putting the ideas in your own words, or placing the copied material in quotes and attributing authorship. In scientific literature, quotations are rarely used. You should use your own words for answering questions on exams, and in your class project.

As a result of completing the registration form at the University of Florida, every student has signed the following statement:

"*I understand 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. "Furthermore, on work submitted for credit by UF students, 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 to be assumed that all work will be completed independently unless the assignment is defined as a group project, in writing by the instructor. This policy will always be vigorously upheld in this course.

Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to the 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

Examples of Academic Integrity Violations
To ensure that you follow the Honor Code and uphold academic integrity, **do not**:

- Sell or share exam questions
- Copy and paste someone else's work into a discussion post (including GenAI output).
- Participate in any discussion app or group that shares answers and solutions to assignments.
- Reuse previously submitted assignments if not permitted.

Academic Integrity Help

Turnitin Draft Coach is a tool for UF students that provides feedback to help improve your academic writing and research skills. It can help with:
- **Unintentional plagiarism**: The Similarity Check tool compares your text to internet content, student papers, and academic journals to identify matches.
- **Citations**: The Citations Check tool identifies missing citations and references and suggests fixes.
- **Grammar**: The Grammar Guide tool finds grammar mistakes and suggests edits.

Artificial Intelligence Policy
You may use generative AI programs to help generate ideas and brainstorm, unless stated otherwise within individual assignment instructions. However, you should note that the material generated by these programs may be inaccurate, incomplete, or otherwise problematic. Beware that generative AI use may also stifle your own independent thinking and creativity.

You may not submit any work generated by an AI program as your own. If you include material generated by an AI program, it should be cited like any other reference material (with due consideration for the quality of the reference, which may be poor).

Any AI-generated content you use must be properly cited in APA format. For example, an AI citation would look like this:

OpenAI. (2024). *ChatGPT* (Version 4) [Generative AI model]. https://openai.com/chatgpt

Student Privacy Disclaimer
Our class sessions may be audio-visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices

recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.]

In-Class Recording
Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A "class lecture" is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or guest lecturer during a class session.

Publication without the permission of the instructor is prohibited. To "publish" means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student

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 professional and respectful feedback on the quality of instruction in this course using a standard set of university and college criteria. Guidance on how to give feedback in a professional and respectful manner is available at: https://gatorevals.aa.ufl.edu/students/. These evaluations are conducted online at https://evaluations.ufl.edu. Evaluations are typically open for students to complete during the last two or three weeks of the semester. 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. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results.

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 accommodation for 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/

Campus 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.

Health and Wellness

- *U Matter, We Care*: If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or https://umatter.ufl.edu/ to refer or report a concern and a team member will reach out to the student in distress.
- *Counseling and Wellness Center*: Visit https://counseling.ufl.edu/ or call 352-392-1575 for information on crisis services as well as non-crisis services.
- Student *Health Care Center*: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit https://shcc.ufl.edu/
- *University Police Department*: Visit https://police.ufl.edu/ or call 352-392-1111 (or 9-1-1 for emergencies).
- *UF Health Shands Emergency Room / Trauma Center:* For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; visit https://ufhealth.org/locations/uf-health-shands-emergency-room-trauma-center
- *GatorWell Health Promotion Services*: For prevention services focused on optimal wellbeing, including Wellness Coaching for Academic Success, visit https://gatorwell.ufsa.ufl.edu/ or call 352-273-4450.

Academic Resources

- *E-learning technical support*: Contact the UF Computing Help Desk at 352-392-4357 https://it.ufl.edu/helpdesk/ or via e-mail at helpdesk@ufl.edu.
- *Career Connections Center*: Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services.
- *Library Support*: Various ways to receive assistance with respect to using the libraries or finding resources.
- *Teaching Center*: 1317 Turlington Hall, 352-392-2010. General study skills and tutoring.

- *Writing Studio:* 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers.
- *Student Concern*: Report Student Concerns or Conduct

Student Complaints:
- Residential Course: https://www.sfa.ufl.edu/written-student-complaints/
- Online Course: https://pfs.tnt.aa.ufl.edu/state-authorization-status/#student-complaint

Additional Information

Privacy and Accessibility Policies

For information about the privacy policies of the tools used in this course, see the links below:

- Adobe
    - Adobe Privacy Policy

    - Adobe Accessibility
- Honorlock
    - Honorlock Privacy Policy
    - Honorlock Accessibility
- Instructure (Canvas)
    - Instructure Privacy Policy
    - Instructure Accessibility
- Microsoft
    - Microsoft Privacy Policy
    - Microsoft Accessibility
- Perusall
    - Perusal Accessibility
    - Perusal Privacy
- PlayPosit
    - PlayPosit Privacy Policy
    - PlayPosit Accessibility
- Zoom
    - Zoom Privacy Policy
    - Zoom Accessibility