

COURSE SYLLABUS
ENY 4590C - MOSQUITO IDENTIFICATION (UNDERGRADUATE)
ENY 6591C - ADVANCED MOSQUITO IDENTIFICATION (GRADUATE)

3 CREDIT HOURS | SPRING

LOCATION: FLORIDA MEDICAL ENTOMOLOGY LABORATORY, VERO BEACH, FL 32962 AND CANVAS

INSTRUCTOR:

Dr. Nathan Burkett-Cadena; Florida Medical Entomology Laboratory, Vero Beach, FL; (772) 226-6617;

Email: nburkettcadena@ufl.edu

OFFICE HOURS: *By appointment, phone or email.*

COURSE WEBSITE: <https://elearning.ufl.edu>

COURSE COMMUNICATIONS: *Via email with instructors.*

REQUIRED TEXTBOOKS: *Identification and Geographic Distribution of the Mosquitoes of North America, North of Mexico. 2005. Richard F. Darsie and Ronald A. Ward. University Press of Florida. This textbook is essential for the course and must be acquired in advance of the lectures/labs in Vero Beach, FL. Purchase from the UF bookstore or on-line retailer and bring with you to Vero Beach. Do not purchase the electronic version (e-book or PDF). <https://upf.com/book.asp?id=9780813062334>*

MATERIALS AND SUPPLIES FEES: *None*

COURSE DESCRIPTION: *This course provides intensive and in-depth lecture and hands-on training focused on the identification of adult and larval mosquitoes as well as a review of current and historical mosquito taxonomy and biology topics.*

PREREQUISITE KNOWLEDGE AND SKILLS: *Students should have basic knowledge of insect morphology; experience and familiarity with stereo and compound microscopes and the use of taxonomic identification keys are highly desirable.*

COURSE GOALS AND/OR OBJECTIVES: *By the end of this course, students should be able to:*

- 1. Use mosquito taxonomic keys to identify adult female and larval mosquitoes.*
- 2. Recognize morphological features used to identify adult female and larval mosquitoes.*
- 3. Identify and recognize mosquito genera and a minimum of 50 species that occur in North America.*
- 4. Synthesize information on mosquito biology and taxonomy through an in-depth writing assignment (Graduate students).*

INSTRUCTIONAL METHODS: *This course will be conducted through Canvas, email and in-person. All lectures are delivered in-person at the Florida Medical Entomology Laboratory in Vero Beach, FL for a two-week period (UF spring break and following week).*

Graduate students are required to write and submit a Featured Creature profile article on a mosquito species that occurs in Florida. <http://entnemdept.ufl.edu/creatures/>

COURSE POLICIES:

ATTENDANCE POLICY: STUDENTS CANNOT COMPLETE THIS COURSE WITHOUT ATTENDING ALL OF THE REQUIRED LECTURES WHICH ARE ONLY DELIVERED IN-PERSON AT THE FLORIDA MEDICAL ENTOMOLOGY LABORATORY IN VERO BEACH, FL.

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/ugrad/current/regulations/info/attendance.aspx>

QUIZ/EXAM DATES/POLICIES: *Quizzes & exams must be taken during periods they are available in-person.*

Letter grades are assigned using the following scale which follows grading recommendations of the Entomology and Nematology Department.

Percent	93.0 - 100	90.0 - 92.99	87.0 - 89.99	83.0 - 86.99	80.0 - 82.99	77.0 - 79.99	73.0 - 76.99	70.0 - 72.99	60.0 - 69.99	<60.0
Grade:	A	A-	B+	B	B-	C+	C	C-	D	E

More information on UF grading policy may be found at [Grades and Grading Policies](#)

COURSE SCHEDULE:

CRITICAL DATES:

LAB PRACTICAL 1: March 21, 2025

LECTURE EXAM 1: March 21, 2025

LAB PRACTICAL 2: March 28, 2025

LECTURE EXAM 2: March 28, 2025

Review article due: April 30, 2025

SCHEDULE OF LECTURE TOPICS – IN PERSON, VERO BEACH, FL

Week	Day	Lecture topics
Adult Mosquitoes	1	Course Introductions; Housekeeping and logistics; Stereomicroscope set up and use; handling adult mosquito specimens; Adult mosquito morphology
	2	Introduction to identification of Aedes; Mosquito trapping Part 1
	3	Introduction to identification of Culex; Introduction to Identification of Anopheles; Mosquito trapping Part 2
	4	Introduction to identification of Coquillettidia, Culiseta, Deinocerites, Mansonia, Orthopodomyia, Psorophora, Toxorhynchites, Uranotaenia & Wyeomyia; Review of mosquito genera and species.
Larval Mosquitoes	1	Course Introductions; Housekeeping and logistics; Compound Microscope set up and use; handling adult mosquito specimens; Larval mosquito morphology
	2	Introduction to identification of Aedes; Larval mosquito sampling Part 1
	3	Introduction to identification of Culex; Introduction to Identification of Anopheles; Larval mosquito sampling Part 2
	4	Introduction to identification of Coquillettidia, Culiseta, Deinocerites, Mansonia, Orthopodomyia, Psorophora, Toxorhynchites, Uranotaenia & Wyeomyia; Review of mosquito genera and species.

METHODS BY WHICH STUDENTS WILL BE EVALUATED AND THEIR GRADE DETERMINED:

For students enrolled in ENY 4590C (undergraduate course), the overall grade is based upon 2 lab practical exams and 2 lecture exams. For students enrolled in ENY 6591C (graduate course), the overall grade is based upon 2 lab practical exams, 2 lecture exams, and 1 writing assignment.

	UNDERGRADUATE (4590C)	GRADUATE (6591C)
Component	PERCENT OF FINAL GRADE	PERCENT OF FINAL GRADE
LAB PRACTICAL 1 – IDENTIFY ADULT MOSQUITOES	25%	20%
LAB PRACTICAL 2 – IDENTIFY LARVAL MOSQUITOES	25%	20%
LECTURE EXAM 1 – ADULT MOSQUITOES	25%	20%
LECTURE EXAM 2 – LARVAL MOSQUITOES	25%	20%
REVIEW ARTICLE	-	20%
TOTAL	100%	100%

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 honor and integrity by abiding by the Honor Code. On all work submitted for credit by students 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 <https://sccr.dso.ufl.edu/process/student-honor-code/>

Use of Artificial Intelligence

Artificial Intelligence or chatbots, such as Chat-GPT, is not allowed on any graded writing assignment.

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/>

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 feedback in a professional and respectful manner is available at: <https://gatorevals.aa.ufl.edu>. 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/>.

Software Use

All UF faculty, staff and students 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.

Student Privacy

There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see the [Notification to Students of FERPA Rights](#).

Campus Resources:

Health and Wellness

U Matter, We Care: If you or a friend is in distress, please contact umatter@ufl.edu or 352 392-1575 so that a team member can reach out to the student.

Counseling and Wellness Center: counseling.ufl.edu/cwc, and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Assault Recovery Services (SARS) Student Health Care Center, 392-1161.

University Police Department at 392-1111 (or 9-1-1 for emergencies), or police.ufl.edu.

Academic Resources

Computing Help Desk, 352-392-4357 (select option 2) or e-mail to helpdesk@ufl.edu.

Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling.

Library Support, Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring.

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers.

On-Line Students Complaints

Class Demeanor or Netiquette: All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions, and chats. It is important to recognize that the online classroom is in fact a classroom, and certain behaviors are expected when you communicate with both your peers and your instructors. These guidelines for online behavior and interaction are known as netiquette.

SECURITY

Remember that your password is the only thing protecting you from pranks or more serious harm.

- Don't share your password with anyone.
- Change your password if you think someone else might know it.
- Always log out when you are finished using the system.

GENERAL GUIDELINES

When communicating online, you should always:

- Treat your instructor and classmates with respect in email or any other communication.
- Always use your professors' proper title: Dr. or Prof., or if in doubt use Mr. or Ms.
- Unless specifically invited, don't refer to your instructor by first name.
- Use clear and concise language.
- Remember that all college level communication should have correct spelling and grammar (this includes discussion boards).
- Avoid slang terms such as "wassup?" and texting abbreviations such as "u" instead of "you."
- Use standard fonts such as Arial, Calibri or Times new Roman and use a size 10 or 12 point font
- Avoid using the caps lock feature AS IT CAN BE INTERPRETTED AS YELLING.
- Limit and possibly avoid the use of emoticons like :) or 9.

- Be cautious when using humor or sarcasm as tone is sometimes lost in an email or discussion post and your message might be taken seriously or sound offensive.
- Be careful with personal information (both yours and other's).
- Do not send confidential information via e-mail.

EMAIL NETIQUETTE

When you send an email to your instructor, teaching assistant, or classmates, you should:

- Use a descriptive subject line.
- Be brief.
- Avoid attachments unless you are sure your recipients can open them.
- Avoid HTML in favor of plain text.
- Sign your message with your name and return e-mail address.
- Think before sending the e-mail to more than one person.
- Be sure you REALLY want everyone to receive your response when you click, "reply all."
- Be sure that the message author intended for the information to be passed along before you reply.

Getting Help:

For issues with technical difficulties for Canvas, please contact the UF Help Desk at:

- <http://helpdesk.ufl.edu>
- (352) 392-HELP (4357)
- Walk-in: HUB 132

Any requests for make-ups due to technical issues MUST be accompanied by the ticket number received from the Help Desk 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.

Other resources are available at <http://www.distance.ufl.edu/getting-help> for:

- Counseling and Wellness resources
- Disability resources
- Resources for handling student concerns and complaints
- Library Help Desk support

Should you have any complaints with your experience in this course please visit <https://flexible.dce.ufl.edu/student-complaints/> to submit a complaint.

Disclaimer: This syllabus represents my current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.