COURSE SYLLABUS

ENY 4590C - MOSQUITO IDENTIFICATION (UNDERGRADUATE)

ENY 6591C - ADVANCED MOSQUITO IDENTIFICATION (GRADUATE)

3 CREDIT HOURS | SPRING SEMESTERS

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

INSTRUCTORS:

Dr. Nathan Burkett-Cadena; Florida Medical Entomology Laboratory, Vero Beach, FL; (772) 226-6617; Email: nburkettcadena@ufl.edu

Dr. Derrick Mathias; Florida Medical Entomology Laboratory, Vero Beach, FL; (772) 226-6645; Email: d.mathias@ufl.edu

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

COURSE TA: *Kristin Sloyer, ksloyer@ufl.edu*

COURSE WEBSITE: *http://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).*

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).*

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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).

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.*

MAKE-UP POLICY: *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 nburkettcadena@ufl.edu within 24 hours of the technical difficulty if you wish to request a make-up.*

ASSIGNMENT POLICY: *Assignments must be completed by the due dates. 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 nburkettcadena@ufl.edu within 24 hours of the technical difficulty if you wish to request a make-up.*

COURSE TECHNOLOGY: *Students must have access to a computer that can view PowerPoint, Flash, and .pdf files, has adequate memory and speed, and meets the minimum standards for UF computer use is needed. The following website explains the University of Florida computer hardware and software policy: http://dell.techhub.ufl.edu/computer_requirement.html. Contact the UF Computing Help Desk with any technology problems.*

- http://helpdesk.ufl.edu
- (352) 392-HELP - select option 2

ONLINE COURSE EVALUATION: 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 10 university and college criteria. 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 of the specific times when they are open. Results of these assessments are available to students at https://evaluations.ufl.edu/results.

UF POLICIES:

UNIVERSITY POLICY ON ACCOMMODATING STUDENTS WITH DISABILITIES (REQUIRED): "Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester."

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UNIVERSITY POLICY ON ACADEMIC CONDUCT: UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty 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." The Honor Code specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class. (http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/)

CLASS DEMEANOR OR NETIQUETTE:

Students are expected to arrive on time for lectures, to refrain from using cell phones and text messaging during lectures; Students are expected to take cell phone calls outside of the lab and to keep discussions to a minimum. Please minimize sounds that may make it difficult for others to concentrate.

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 Ariel, Calibri or Times new Roman and use a size 10 or 12 pt. font
- Avoid using the caps lock feature AS IT CAN BE INTERPRETTED AS YELLING.
- Limit and possibly avoid the use of emoticons like :) or☺.
- 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:

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- 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.

MESSAGE BOARD NETIQUETTE AND GUIDELINES

When posting on the Discussion Board in your online class, you should:

- Make posts that are on topic and within the scope of the course material.
- Take your posts seriously and review and edit your posts before sending.
- Be as brief as possible while still making a thorough comment.
- Always give proper credit when referencing or quoting another source.
- Be sure to read all messages in a thread before replying.
- Don't repeat someone else's post without adding something of your own to it.
- Avoid short, generic replies such as, "I agree." You should include why you agree or add to the previous point.
- Always be respectful of others' opinions even when they differ from your own.
- When you disagree with someone, you should express your differing opinion in a respectful, non-critical way.
- Do not make personal or insulting remarks.
- Be open-minded.

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 http://www.distance.ufl.edu/student-complaints to submit a complaint.

GRADING POLICIES:

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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%

INFORMATION ON CURRENT UF GRADING POLICIES FOR ASSIGNING GRADE POINTS:

- https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

GRADING SCALE: Letter grades for ENY 4590C and ENY 6591C are assigned using the following scale.

Grade	Percentages
A	93– 100
A-	90– 92.9
B+	87– 89.9
B	83– 86.9
B-	80- 82.9
C+	77- 79.9
C	73- 76.9
C-	70- 72.9
D+	67- 69.9
D	63- 66.9
D-	60- 62.9
E	<59.9 and below

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COURSE SCHEDULE:

CRITICAL DATES:

LAB PRACTICAL 1: March 11, 2022

LECTURE EXAM 1: March 11, 2022

LAB PRACTICAL 2: March 18, 2022

LECTURE EXAM 2: March 18, 2022

Review article due: April 22, 2022

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

Week	Day	Lecture topics
Adult Mosquitoes	March 7	Course Introductions; Housekeeping and logistics; Stereomicroscope set up and use; handling adult mosquito specimens; Adult mosquito morphology
	March 8	Introduction to identification of Aedes; Mosquito trapping Part 1
	March 9	Introduction to identification of Culex; Introduction to Identification of Anopheles; Mosquito trapping Part 2
	March 10	Introduction to identification of Coquillettidia, Culiseta, Deinocerites, Mansonia, Orthopodomyia, Psorophora, Toxorhynchites, Uranotaenia & Wyeomyia; Review of mosquito genera and species.
	March 11	Exams
Larval Mosquitoes	March 14	Course Introductions; Housekeeping and logistics; Compound Microscope set up and use; handling adult mosquito specimens; Larval mosquito morphology
	March 15	Introduction to identification of Aedes; Larval mosquito sampling Part 1
	March 16	Introduction to identification of Culex; Introduction to Identification of Anopheles; Larval mosquito sampling Part 2
	March 17	Introduction to identification of Coquillettidia, Culiseta, Deinocerites, Mansonia, Orthopodomyia, Psorophora, Toxorhynchites, Uranotaenia & Wyeomyia; Review of mosquito genera and species.
	March 18	Exams

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REQUIRED READINGS (TO BE PROVIDED BY INSTRUCTORS on Jan 31)

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.