

ENY-4660, Medical & Veterinary Entomology, 2 credits
Distance Education
Syllabus, Fall 2018

Instructor: Dr. Philip G. Koehler
Email: pgk@ufl.edu
Phone 352-392-2484
Teaching Assistant: **Bethany McGregor** bmcgreg@ufl.edu
Phone: (772) 778-7200
Office: Urban Entomology Building, Bldg 1278
Office Hours: Weekdays 8:00-5:00
Co-Course Requirements: ENY4660L
Canvas Website: <http://lss.at.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: This course presents the major insect, mite, and tick vectors of disease to man and animals. Students will learn to identify and understand the life cycles, morphology, and behavior of mosquitoes, ticks, mites, lice, fleas, and other disease vectors. Students also will learn about major arthropod-transmitted disease cycles, including malaria, Lyme disease, West Nile virus, leishmaniasis, and plague. The interaction between the disease-causing pathogen and the arthropod vector will be covered, including *biological* and *mechanical* transmission of pathogens as well as the mechanical damage that a parasite inflicts on its host.

Critical Thinking: With international travel and movement of people from place to place, it is difficult to determine the origins of a disease outbreak. Students will be expected to identify the vector, pathogen, and location of a person associated with a vector-borne disease. Critical thinking & communication will be evaluated by downloading a research paper from the course website, analyzing each of the specific portions of the paper (literature review, objectives, materials and methods, results, and discussion), and submitting an evaluation of the downloaded research paper as a Word document.

Course Lectures: Course lectures are on the Canvas course website. Lecture notes and class schedule are also on the Canvas website and available for download.

Text: Gary Mullen and Lance Durden. 2009. *Medical and Veterinary Entomology, 2nd Edition*. Academic Press. ISBN #: 978-0-12-372500-4.

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

Grading: The exams will be timed exams. The final exam will be comprehensive of all lectures. The course is based on a total of 1000 points:

| | |
|-----------------------------------|------------|
| Exam 1 | 200 points |
| Exam 2 | 200 points |
| Final exam | 400 points |
| Critical Thinking & Communication | 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

Specific Evaluations: Your grade in the lecture 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. Exams 1 & 2 and identification exams are not comprehensive and will be timed exams. Final exams (lecture and laboratory) will be comprehensive. Your “critical thinking & communication paper” will be graded by evaluating the critique of the 5 sections of the downloaded research paper on a scale of 40 points per section.

Grades and Grade Points

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

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 Canvas website. The site is restricted to only students officially enrolled in the class. Assignments must be completed on or before the date listed.

Course Technology

The course is administered in E-learning through Canvas. Students will need a Gatorlink account to access the course web site (<http://helpdesk.ufl.edu/self-help/>). All students should have unlimited access to a computer with either Windows 7 or Mac OS X operating systems. Students should make sure to have access to a back-up computer in case of equipment failure. A high-speed Internet connection is highly recommended. Students will need speakers, microphone, and headphones to

hear and record presentations. Microsoft Office PowerPoint is recommended for the presentation assignment but OpenOffice (freeware) may suffice <http://www.openoffice.org/>.

Plagiarism

The purpose in bringing to your attention the matter of plagiarism is to help train you to be an ethical person, not to impugn your character. Plagiarism is a serious problem in academia today, especially with the ease of obtaining information from the World Wide Web. Plagiarism is defined as representing the words **or ideas** of another person as one's own, without attribution to the source. All words and ideas must be attributed to a source unless they are considered common knowledge (i.e., widely known by many people and found in many different sources). There are many kinds of plagiarism, as you will read on the Guide to Plagiarism website referenced below. One of the most common forms is insufficient paraphrasing. Even with attribution, you may be guilty of insufficient paraphrasing because your sentence too closely follows the content and structure of the cited author's sentence.

Plagiarism is unethical, unacceptable, and prohibited by the UF Student Honor Code (<http://www.dso.ufl.edu/sccr/honorcodes/honorcode.php>). The consequences for plagiarism at the University of Florida range from receiving a grade of zero for the plagiarized assignment or a failing grade for the course, to expulsion from the University for repeated offenses. Plagiarism after schooling calls into question one's integrity and can lead to banning of publication in journals and the loss of jobs/careers.

In some countries, it is an acceptable practice to write in a manner that faculty members at the University of Florida consider as plagiarism. Students studying at our university and with plans to publish their research in the English language need to know what plagiarism is and how to avoid it. Students who plagiarize will be caught and consequences will be applied. I check all written assignments using anti-plagiarism software called Turnitin® (http://turnitin.com/en_us/products/originalitycheck). Students who plagiarize will receive a grade of zero on the assignment. The second instance of plagiarism in the course will result in an automatic failing grade in the course. For further information and examples of plagiarism, read the George Smathers' Library Guide to Plagiarism at <http://www.uflib.ufl.edu/msl/07b/students.html> UF Policies 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 to appropriate personnel any condition that facilitates academic misconduct. 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/honorcodes/honorcode.php>.

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 University of Florida is committed to providing academic accommodations for students with disabilities. 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, a student should present his/her accommodation letter to me supporting a request for accommodations. The University encourages students with disabilities to follow these procedures as early as possible within the semester. See the website at www.dso.ufl.edu/drc/

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/wp-content/uploads/2012/08/NetiquetteGuideforOnlineCourses.pdf>

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. 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. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results>.

Getting Help

For issues with technical difficulties for E-learning in Canvas, 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. Other resources are available at

<http://www.distance.ufl.edu/getting-help> for:

- Counseling and Wellness resources
- Disability Resource Center
- Dean of Students Office
- Online Library Help Desk Complaints

Each online distance learning program has a process for, and will make every attempt to resolve, student complaints within its academic and administrative departments at the program level. See <http://distance.ufl.edu/student-complaints> for more details

Lecture Subjects:

1. Introduction to Med & Vet Entomology
2. Classification of Arthropod-borne diseases
3. Hematophagy, disease transmission and epidemiology
4. Flies (Diptera) of Medical and Veterinary Importance
5. Moth flies: Leishmaniasis and Bartonellosis
6. Biting Midges (Ceratopogonidae)
7. Mosquito Taxonomy, Biology, and Behavior
8. Mosquito viruses: EEE, VEE, SLE, Yellow fever, West Nile virus
9. Mosquito surveillance
10. Malaria
11. Horse flies, Deer Flies: EIA, Anaplasmosis
12. Muscid flies
13. Myiasis (Muscoidea)
14. Myiasis (Skin Bots and Grubs) and Louse flies
15. Black flies of Medical and Veterinary Importance
16. Filariasis: Mansonellosis, Onchocerciasis
17. Lice of Medical and Veterinary Importance
18. Rickettsial Diseases: Epidemic Typhus, etc.
19. Mites: Rickettsialpox and Tsutsugamushi
20. Mites and Acariasis: Mange, Scabies, Chiggers
21. Spiders and Scorpions
22. Fleas (Siphonaptera) of Medical and Veterinary Importance
23. Plague and Murine Typhus
24. Ticks of Medical and Veterinary Importance
25. Lyme disease, Rocky Mountain Spotted Fever, Tularemia
26. True Bugs (Hemiptera): Kissing bugs and Bedbugs
27. Chagas Disease
28. Tsetse flies
29. Lepidoptera and Hymenoptera