BSC 4933 049 | Medical and Applied Entomology, Spring 2012

INSTRUCTOR

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Office Hours: Monday, Wednesday, Friday after class or by appointment

TEXTBOOK

There is no medical entomology textbook for the course. However, the required reading is:

"New Guinea Tapeworms and Jewish Grandmothers: Tales of Parasites and People" by Robert S. Desowitz.

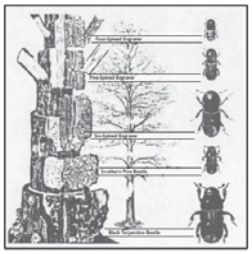
New copies of this book are available in USF's campus bookstore; however, you can get it cheaper at Amazon.com.

LECTURE MATERIAL

The Blackboard system (https://my.usf.edu/) will contain *all the readings* (in PDF form), lecture notes, PowerPoint handouts, e results, grades and important messages. **You must consult this weekly** to keep track of any changes in lecture material, handouts, or exam schedules.

COURSE OVERVIEW

Medical entomology is the study of insects and arthropods that impact the health of humans (and their domesticated animals), and applied entomology is the study of insects that impact agriculture, forestry, and stored products.

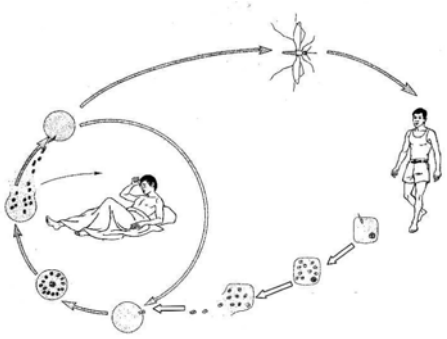


This course will begin with a brief overview of general entomology, cover the basic biology of medically important arthropods and the pathogens/parasites they transmit (with emphasis on the ecology of arthropod-borne diseases and principles of their control), then cover insect pests, animal pests, natural enemies, beneficial insects, beneficial animals, agricultural chemicals and more.

Among the diseases to be covered: dengue fever, malaria, yellow fever, West Nile virus, Lyme disease, and river blindness. Among the pests to be covered: mosquitoes, ticks, aphids, mites, bark beetles, and weevils.

TENTATIVE LECTURE SCHEDULE (lecture times: MWF 10:45-11:35am, room: CIS 1045)

DATE	TOPIC
week 1 (Jan 9, 11, 13)	introduction, concepts of entomology
Jan 16th	no class, Martin Luther King, Jr. Day
week 2 (Jan 18, 20)	concepts of entomology, arthropod diversity
week 3 (Jan 23, 25, 26)	insect evolution and diversity
week 4 (Jan 30, Feb 1, 3)	systematics, growth, development
week 5 (Feb, 6, 8)	reproduction, review
exam I (Feb 10)	**weeks 1 to 5 to be covered**
week 6 (Feb 13, 15, 17)	mosquitoes
week 7 (Feb 20, 22, 24)	sand-flies, midges, horse flies
week 8 (Feb 27, 29, Mar 2)	botflies, tsetse-flies,
week 9 (Mar 5, 7, 9)	lice, fleas, bedbugs,
March 12-16	no class, Spring break
week 10 (Mar 19, 21)	ticks, mites, review
exam II (Mar 23)	**weeks 6 to 10 to be covered**
week 11 (Mar 26, 28, 30)	locusts, termites, cicadas
week 12 (Aprl 2, 4, 6)	aphids, scale insects, thrips
week 13 (Aprl 9, 11, 13)	beetles, sawflies
week 14 (Aprl 16, 18, 20)	ants, wasps, bees
week 15 (Aprl 23, 25, 27)	moths and butterflies, review
exam III (Dec TBA)	**weeks 11 to 15 to be covered**



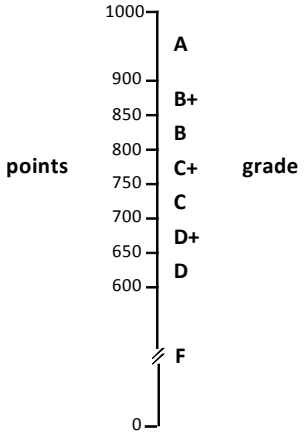
BSC 4933 | COURSE EVALUATIONS

GRADES. There will be a total of 1000 points available in this course in the form of exams and homework assignments through Blackboard. These are assigned as:

assignment	points
in class Exam I	320
in class Exam II	320
Exam III	320
homework assignment	40
total	**1000**

There is no curve for this course. However, if midterms, assignments and the final exam turn out more difficult than anticipated, the grades will be adjusted upwards. The absence of a curve guarantees that students scoring 900 or above will receive an A regardless of the grade adjustment.

GRADING SCALE



ATTENDANCE. Attendance is expected but not mandatory. You are all adults capable of making your own decisions about the costs and benefits of attendance. However, it is my opinion that absences will impair your academic performance and comprehension of the material, which in turn will affect your success in the course. Students are responsible for all material covered in class and any announcements or schedule changes made during class regardless of attendance history.

ACADEMIC DISHONESTY. The University and Divisions does not tolerate academic dishonesty and punishment will be imposed for academic dishonesty of any kind (see Undergraduate Catalogue for University guidelines on punishment, as well as the document linked below). The Department of Integrative Biology (IB) has specific guidelines pertaining to academic dishonesty, and this course follows these guidelines. These guidelines are found at:

DEPARTMENT OF INTEGRATIVE BIOLOGY INSTRUCTIONAL POLICIES FOR STUDENTS
(http://biology.usf.edu/ib/data/admin/2011-2012_Student_Information.pdf)

EXAMS. There will be three multiple choice exams. All exams will require students to memorize, synthesize, and apply their knowledge in a new context. Your exam copy and scantron must be returned at the end of the exam.

What you should have…

1) number 2 pencil with a good eraser
2) USF ID or Driver's License that will be checked at the start and end of the test

What you should put away and adjust…

1) any electronic device
2) notes, textbook, study cards
3) sunglasses or hats must be worn backwards or removed, and hoodies must not cover head

If you miss an exam, but have a documented excuse, you must take the exam within 48 hours of the scheduled exam time. If you miss two exams you should withdraw from the course. If you are late for the exam and any students have already completed and left the exam, you may not be allowed to take the exam. Students anticipating missing an exam due to a religious holiday, or have a scheduled conflict with documentation, must provide a written notice to me (lajeunesse@usf.edu) at least one week before the exam.

Exam scantron sheets will be available at my office (SCA306) within a week following the exam. If at any time you believe there is **an error with your recorded score**, email me and I will check it against the computer output from the grading center. Corrections can be made only if your exam was graded by the wrong answer key or if your score was incorrectly entered in the gradebook. Exam scores cannot be corrected due to your errors in marking the scantron—it is your responsibility to make clean and accurate responses.