BIOL 3850 MEDICAL & VETERINARY ENTOMOLOGY SPRING 2022
SYLLABUS & COURSE POLICIES

Lecture: BSC 2022 (M, W, F 10:00-10:50)
Laboratory: BSC 2071 (Section A: Thursday 2:00 4:50; Section B: Friday 11:00 1:50)
Instructor: Dr. Mark Blackmore
Office: Bailey Science Center 2218. Tel. 259-5114; email = mblackmo@valdosta.edu
Office Hours: Mon 11-12; Wed 11-12; Thursday 9:30-10 or by appointment

Course scope and objectives: This course is intended to introduce the student to the biology, ecology and behavior of insects that affect the health of humans, livestock, and other domestic or wild animals.
Factors contributing to the diversity and success of these arthropods and their interactions with humans will be emphasized. Students are expected to learn the characters used to identify the more common and important North American taxa of medical or veterinary importance and to assemble a collection of relevant locally-occurring species. These correspond to Department of

diversity, explain the phylogenetic relationships among the major taxa of life, and provide and 5 (Interpret ecological data pertaining to the behavior of the individual organism in its natural environment; to the structure and function of populations, communities

Catalogue Description: BIOL 3850/5850 Overview of medical and veterinary entomology. Reviews basic biology of insects and other arthropods, with emphasis on species affecting health of humans, domestic animals and livestock. Diseases associated with arthropods and principles of forensic entomology will be considered. **4 credit hours. Prerequisite: BIOL 3200, BIOL 3250, or permission of instructor; admission to graduate program (BIOL 5850 only).**

Text: *Medical and Veterinary Entomology* 3rd ed. 2019 by Gary Mullen & Lance Durden.

Course requirements & grading policy: Students are expected to attend all scheduled lectures, all laboratory sessions, and complete all assigned work including quizzes and examinations. BlazeView will be used to communicate with the class, and students should check BV daily for announcements or other information that may be posted there. Regular attendance and participation are **essential** for success in class. Therefore, students are expected to attend class as scheduled and must complete assignments as outlined in the syllabus. **Attendance** will not be routinely recorded after the Drop/Add period but students are responsible for all material presented in class and must attend labs. The Instructor is not obligated to provide lecture notes or

the lab also may be covered on these tests but students will not be tested in the lab on subjects that are covered only in lecture. ***All tests are cumulative***.

Points for the course will be allocated as follows:

LABORATORY		LECTURE	
8 Quizzes (15 pts each, 2 low scores dropped)	90 pts	Hour Exams	300 pts
Practical Exam I:	40 pts	Final Exam	100 pts
Practical Exam II:	60 pts	TOTAL:	400 pts
Worksheets:	10 pts		
TOTAL:	200 pts		

The following scale will be used to assign final grades:

POINTS EARNED		GRADE
540	600	A
480	539	B
420	479	C
360	419	D
< 360		F

Tentative Lecture Schedule Spring 2022

Lecture Topics	**Assigned Reading (Mullens & Durden 3rd ed.)**
Introduction & Overview of Arthropods	Ch.1
Morphological Adaptations of Parasitic Arthropods	Ch. 2
Arthropod Toxins & Venoms	Ch. 3
Epidemiology of Vector-borne Diseases	Ch. 4
Forensic Entomology	Ch. 5
Cockroaches	Ch. 6
Lice	Ch. 7
True Bugs	Ch. 8
Beetles & Fleas	Ch. 9 & 10
Flies	Ch. 11 through 20
Moths & Butterflies	Ch. 21
Ants, Wasps & Bees	Ch. 22
Scorpions & Solpugids	Ch. 23 24
Spiders	Ch. 25
Mites	Ch. 26
Ticks	Ch. 27
Molecular Tools Used in Med/Vet Entomology	Ch. 28

Tentative lecture exam dates: Mon. Feb 14; Fri. March 25; Fri. April 29. ***Final Exam Tuesday May 3, 10:15 AM 12:15 PM.***

Tentative Lab Schedule

LAB No.	**Topic/Activity**
1	Classification, Dichotomous keys, Arthropod classes, Insect & Arachnid orders
2	External morphology, Life history stages,
3	**Quiz 1***; Blattodea, Phthiraptera