

BIOL 3850_5850: Medical and Veterinary Entomology
Department of Biology, College of Math and Science
Valdosta State University
Fall 2023, Syllabus and Course Policies

BIOL 3850 (4 credit hours): Section A, CRN #86212; Section B, CRN #86214
BIOL 5850 (4 credit hours): Section A: CRN #86213, Section B, CRN #86215

Lecture: BSC room 2022- MWF 11:00-11:50 am

Lab: BSC room 1043 -Section A, R 9:30 am – 12:20 pm; Section B, 2:00-4:50 pm

Instructor: Eric W. Chambers, Ph.D.

Office: BSC 2214; E-mail: ewchambers@valdosta.edu Phone: 229-249-2736

Office Hours: – MW 9:00-10:30 AM; F 1:00-3:00 PM; or by appointment

Prerequisites: Undergraduate: BIOL 1107, 1107L, BIOL 1108, and 1108L, or permission of instructor; Graduate: Admission to the graduate program or permission of instructor.

Catalogue Course Description: Overview of medical and veterinary entomology. The course 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.

Recommended Reading and Viewing Materials:

1. Medical and Veterinary Entomology 3rd ed. 2019 by Gary Mullen & Lance Durden.
2. Primary literature on medical and veterinary entomology. These will be available to students through Blazeview
3. Video presentations as assigned by Dr. Chambers

Technology Statement: In this class, students will regularly use the following applications:

1. Office 365 for access to VSU email and to Microsoft applications that we will use regularly (Outlook, Teams, Word, Excel, PowerPoint, etc.).
2. BlazeVIEW to access course materials

Although students can use their mobile phones to access these applications it might be

Grade scale for undergraduate students based on points earned:

A 90-100%

B 80-89%

C 70-79%

D 60-69%

F < 60%

Dropping the course: The last day to drop the course is August 17, 2023 @ 11:59 PM;

Withdrawing from the course: The last day to withdraw from the course (you will receive a W)

is October 12, 2023. If you win a lottery to drop the course, you will receive a W instead of an F.

Non-Discrimination and Title IX Statement: Valdosta State University (VSU) upholds all applicable laws and policies regarding discrimination on the basis of race, color, sex (including sexual harassment and pregnancy), sexual orientation, gender identity or expression, national origin, religion, age, veteran status, political affiliation, or disability. The University prohibits specific forms of behavior that violate Title IX of the Education Amendments of 1972. Title IX of the Education Amendments of 1972 prohibits discrimination on the basis of sex in education programs and activities that receive federal funding. VSU considers sex discrimination in any form to be a serious offense. Title IX refers to all forms of sex discrimination committed against others, including but not limited to: sexual harassment, sexual assault, sexual misconduct, and sexual violence by other employees, students or third parties and gender inequity or unfair treatment based on an individual's sex/gender. The designated Title IX Coordinator for VSU is Ms. Selenseia Holmes. To view the full policy or to report an incident visit:

<https://www.valdosta.edu/administration/student-affairs/title-ix/>

Tentative Lecture Schedule Fall 2023

Lecture Topics	Assigned Readings (Durden and Muller, 3 rd ed)
Introduction and Overview of Arthropods	Ch. 1
Morphological Adaptations of Parasitic Arthropods	Ch. 2
Arthropod Toxins and 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 and Fleas	Ch. 9 & 10
Flies	Ch. 11-20
Moths and Butterflies	Ch. 21
Ants, Wasps, and Bees	Ch. 22
Scorpions and Scolopugids	

Tentative Lab Schedule Fall 2023

Lab No.	Date	Topic/Activity
1	8/24/23	Classification, Dichotomous keys, Arthropod classes, Insect & Arachnid orders
2	8/31/23	External morphology and Life history stages
3	9/7/23	Quiz 1*; Blattodea, Phthiraptera
4	9/14/23	Quiz 2*; Hemiptera, Coleoptera & Siphonaptera
5	9/21/23	Quiz 3*; Diptera part I (Nematocera)
6	9/28/23	Quiz 4*; Diptera part II (Brachycera)
7	10/5/23	Lab practical exam I
8	10/12/23	Lepidoptera & Hymenoptera
9	10/19/23	No Lab
10	10/26/23	Quiz 5*; Arachnid orders part I
11	11/2/23	Quiz 6*; Arachnid orders part II
12	11/9/23	Quiz 7*; Arachnid orders part III
13	11/16/23	Quiz 8*; Review for practical exam
14	11/30/23	Lab practical exam II

* Quiz covers all material from previous labs

VALDOSTA STATE UNIVERSITY GENERAL EDUCATIONAL OUTCOMES (GEO)