

BIOL 3970 - Wildlife Diseases

Biology Department, College of Arts and Sciences, Valdosta State University
BIOL 3970 (CRN 23614)

Spring Semester, 2019

Instructor - Dr. J. Mitchell Lockhart

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Office Hours: As posted or by appointment

Course hours: Lecture – Tuesday and Thursday, 11:00 AM – 12:15 PM BC-1024

Textbook – *Field Manual of Wildlife Diseases in the Southeastern United States, Third Edition,*

William R. Davidson, George C. Field, Margaret A. Williams, *Wildlife Diseases: General Field*

Procedures and Diseases of Conservation Wildlife Health Center (supplemental free

online at <http://www.typh.org/>) (e-01 in)

ISBN 0-12-528311-3

http://wildlifediseases.com
http://www.typh.org/

has a considerable amount of new concepts and terminology and it serves your best interest to attend class regularly. Any student disrupting the classroom and affecting the learning experience of others will be asked to leave. Along these lines, **NO** cell-phones, beepers, and/or associated earpieces are allowed either in the **lecture room or laboratory**. This includes viewing devices during class. Students are not permitted to leave the lecture or laboratory rooms to receive messages during regular course time. My policy is not to give a warning, rather, if a cell-phone or beeper activates during lecture/laboratory or you attempt to view or send messages, you will lose one **LETTER GRADE** from your final grade. Viewing a cell-phone or pager that activates on "silent" mode during a quiz or exam will be treated as an instance of **CHEATING** and handled accordingly (in addition to the above penalty). Those wishing to utilize laptop computers as part of the class are required to sit in the first 3 rows of the classroom. Viewing any material other than class material will result in the same penalties above. University guidelines dictate that students missing 20% of lecture sessions for this class are subject to receiving a grade of "F" regardless of their standing in the course.

Students With Documented Disabilities

Tentative Lecture Outline:

Introduction

Red Fox
Rabies, Canine Distemper Virus, Leptospirosis, *Echinococcus*, Canine Heartworm, Subcutaneous Worm, Sarcoptic mange

Gray Fox
Canine Distemper Virus, Rabies, Leptospirosis, Heartworm

Coyote
CDV, Parvovirus, Rabies, Brucellosis, *Echinococcus*, Heartworm

Bobcat
Feline Panleukopenia, Rabies, Toxoplasmosis, Cytauxzoonosis, *Spirometra*

Opossum
Rabies, Leptospirosis, Sarcocystis, Besnoitia, Stomach Worm

Mink
Mink Virus Enteritis, Dioctophyme

River Otter
CDV, Salmonellosis, Subcutaneous worm

Muskrat
Tularemia, Tyzzer's Disease

Beaver
Tularemia, *Giardia*

Cottontail Rabbit
Shope's Fibroma, Tularemia, Staphylococcosis, Tapeworm, Ascarid, Warbles

Gray Squirrel
Squirrel Fibroma, Warbles, Miscellaneous Skin Conditions - Congenital Alopecia, Dermatophytoses, Notedric Mange, Louse

Woodchuck
Woodchuck Hepatitis, Rabies, Ascarids

Armadillo
Leprosy

Others
Chronic Wasting Disease, Cervid Adenovirus Infection, Malignant Catarrhal Fever, Brucellosis, Bovine Tuberculosis, Johne's Disease, Anaplasmosis, Elaphostrongylosis

Course Outcomes/Assessments

1. To understand the diversity of wildlife diseases.
2. To understand epidemiological, ecological, and social factors that underlie the emergence and spread of selected wildlife diseases.
3. To learn potential strategies for surveillance and management of wildlife health.

Assessments for this course will include reading of scientific literature, written exams, various assignments, and classroom literature presentations.

General Education Outcomes/Assessments

This course will help students achieve four of the general education outcomes for Valdosta State University:

3. Students will use computer and information technology when appropriate. They will demonstrate knowledge of computer concepts and terminology. They will possess basic working knowledge of a computer operating system. They will be able to use at least two software tools, such as word processors, spreadsheets, database management systems, or statistical packages. They will be able to find information using computer searching tools.
4. Students will express themselves clearly, logically, and precisely in writing and in speaking, and they will demonstrate competence in reading and listening. They will display the ability to write coherently in standard English; to speak well; to read, to understand, and to interpret the content of written materials in various disciplines; and to listen effectively and to understand different modes of communication.
5. Students will demonstrate knowledge of scientific and mathematical principles and proficiency in laboratory practices. They will understand the basic concepts and principles underlying scientific methodology and be able to collect, analyze, and interpret data. They will learn a body of scientific knowledge and be able to judge the merits of arguments about scientific issues. They will be able to perform basic algebraic manipulations and to use fundamental algebraic concepts to solve word problems and equations. They will be able to use basic knowledge of statistics to interpret and to analyze data. They will be able to evaluate arguments based on quantitative data.
7. Students will demonstrate the ability to analyze, to evaluate, and to make inferences from oral, written and visual materials. They will be skilled in inquiry, logical reasoning, and critical analysis. They will be able to acquire and evaluate relevant information, analyze arguments, synthesize facts and information, and offer logical arguments leading to creative solutions to problems.