BIOL 3970 - Wildlife Diseases

Biology Department, College of Arts and Sciences, Valdosta State University

BIOL 3970 (CRN 25096)

Spring Semester, 2021

Instructor - Dr. J. Mitchell Lockhart

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Office Hours: 830-930AM Tuesday and Thursday or by appointment

Course hours: Lecture – Tuesday and Thursday, **11:00** AM – 12:15 PM Student Union Theater Room 1107

Textbook – *Field Manual of Wildlife Diseases in the Southeastern United States, Third Edition*, William R. Davidson (**suggested**), *Field Manual of Wildlife Disease – General Field Procedures and Diseases of Birds*, National Wildlife Health Center (**suggested** – free online at http://www.nwhc.usgs.gov/publications/field_manual/). Various other readings may be provided.

biology. Topics examined will include specific avian, mammalian, fish, reptile, and amphibian diseases as well as methods to survey for, recognize, and diagnose diseases. Information concerning biosafety, biosecurity, proper permitting, and working with the public will be presented.

Prerequisites: BIOL 1100, BIOL 1107, BIOL 1108, BIOL 3200, BIOL 3250 or permission of instructor

Attendance: **MANDATORY**! I do keep track of who is and isn't attending lecture and laboratory. This rooms to receive messages during regular course time. My policy is not to give a warning, rather, if a cellrows 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 or laboratory sessions for this class are subject to receiving a grade of "F" regardless of their standing in the course.

Valdosta State University will eliminate its 2021 weeklong spring break (originally scheduled for March 15-19). However, classes will still begin as originally scheduled on Monday, January 11, and final exams will conclude on Friday, May 7. To allow both students and faculty some needed

2020 semester.

One of the best resources is VSU's Coronavirus FAQ page located at

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*

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.