

BIOL 3450
Credit Hours 3-3-4

ANIMAL PHYSIOLOGY
Department of Biology

Instructor: Dr. Timothy J. Fort
Phone: (229) 249-2643
Office Hours: Tuesday 2.00 – 4.00 pm or by appointment

Office: BC 1100
Email: tjfort@valdosta.edu

Lecture: Tuesday and Thursday 11.00 am – 12.15 pm BC 1024
Laboratory: Wednesday 10.00 am – 12.50 pm BC 2070

Textbook: Animal Physiology: R. W. Hill, G. A. Wyse and M. Anderson: 2nd Edition. 2008.

Course Description 3450: A study of animal physiology with an emphasis on mammalian organ systems. The molecular and cellular aspects of physiology as they relate to these systems are considered.

Prerequisites: BIOL 2230, BIOL 2270, and CHEM 1212, or permission of instructor.

Course Objectives: By the end of this course, students will be expected to:

- (1) *Collect and analyze physiological data, and present the results and conclusions in written format.*
- (2) *Demonstrate an understanding of the cellular basis of physiology.*
- (3) *Relate the functioning of individual organ systems to the physiology of whole organisms.*
- (4) *Demonstrate competency in factual content and interpretation of the major concept areas of animal physiology.*

These objectives support the Department of Biology Educational Outcomes #'s 1, 3, 4 and the Valdosta State University General Educational Outcomes #'s 3, 4, 5, 7.

Attendance: Attendance of lectures is expected of all students, but is not required. Attendance of laboratory classes is mandatory. Any student missing 2 scheduled laboratory classes, without an acceptable documented. Attc 1.t and interp.d7KHV5

Assessment:	Lecture: 3 Exams (100 points each)	: 300	points
	Cumulative Final	: 200	points
	Paper	: 100	points
	Laboratory Assignments	: 100	points
	Lab Notebook	: 40	points
	Lab Report	: 60	points

- Assignments will be set during lab periods and you will generally have 1 week to complete the assignment.
- Any assigned work submitted late will **NOT** be graded.
- Any assigned work submitted electronically will **NOT** be graded, unless prior permission for electronic submission is granted.
- Make up examinations will only be given if an acceptable documented reason (determined by the instructor) is provided.
- Requirements for the Paper, Notebook, Assignments and Report will be explained during the semester.
- Lecture Exams: Question styles will vary depending on the topics being examined and may include (but are not limited to), multiple choice, fill in the blank, diagrams, short answer and essays.

Tentative Lecture Schedule 3/10

Date	Topic	Chapter
1/11	Introduction / Homeostasis / Cells	1,2
1/13	Enzymes and Metabolism	2,7
1/18	Aerobic / Anaerobic Metabolism	7
1/20	Aerobic / Anaerobic Metabolism & Neurons	7/11
1/25	Neurons	11
1/27	Synapses	12
2/1	Sensory Processes	13
2/3	EXAM #1	
2/8	Nervous System Organization	14
2/10	Muscle LAB NOTEBOOK 2/11 by 3.00pm	19/20
2/15	Muscle / Control of Movement	20/18
2/17	Control of Movement	18
2/22	Endocrine / Neuroendocrine	15
2/24	Endocrine/ Neuroendocrine	15
3/1	Circulation	24
3/3	EXAM #2 MID TERM	
3/8	Circulation	24/25
3/10	Circulation	24/25
3/15	Spring Break – No Class	
3/17	Spring Break – No Class	
3/22	Oxygen and Carbon Dioxide Physiology	21/22
3/24		

Tentative Lab Schedule