

**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: 2<sup>nd</sup> 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

<b>Assessment:</b>	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	<b>EXAM #1</b>	
2/8	Nervous System Organization	14
2/10	Muscle <span style="float: right;"><b>LAB NOTEBOOK 2/11 by 3.00pm</b></span>	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	<b>EXAM #2</b> <span style="float: right;"><b>MID TERM</b></span>	
3/8	Circulation	24/25
3/10	Circulation	24/25
3/15	<b>Spring Break – No Class</b>	
3/17	<b>Spring Break – No Class</b>	
3/22	Oxygen and Carbon Dioxide Physiology	21/22
3/24		

## **Tentative Lab Schedule**