

BIOL 3460
Credit Hours 3-3-4

HUMAN PHYSIOLOGY
Department of Biology

Instructor: Dr. Timothy J. Fort
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Office Hours: Tuesday 2.00pm - 4.00pm or by scheduled appointment

Lecture: Tuesday & Thursday 11.00am – 12.15pm BC 1025
Laboratory: **Section A:** Wednesday 10.00am – 12.50pm BC 2070
Section B: Wednesday 2.00pm – 4.50pm BC 2070

Textbook: Vander's Human Physiology, the mechanisms of body function. 11th, 12th, or 13th Edition
Widmar, E.P., Raff, H. and Strang, K.T.

Course Description: Human physiological principles, from cells to systems, with emphasis on the regulation and integration of organ systems.

Prerequisites: BIOL 3200 and CHEM 1212/1212L 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 overall functioning of the human body.*
- (4) *Demonstrate competency in factual content / interpretation of the major areas of human physiology.*

These objectives support in part the Department of Biology Educational Outcomes #'s 1, 3 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 reason (determined by the instructor) will receive a failing grade for the course. Student attendance of classes will be recorded.

Conduct: Students are expected to arrive on time and behave with respect in both lectures and laboratories. Students should not talk during lectures, but if you do not understand or do not hear something please ask for clarification. Use of cell phones during lectures and laboratories is not permitted. Cell phones must be turned off during lectures and laboratories. If your cell phone activates during a lecture you will be asked to leave. If your cell phone activates during lab you will be asked to leave and it will count as an unexcused absence. If your cell phone activates during an exam you will be asked to leave and receive 0% for that exam.

Cheating / Plagiarism: Please refer to the Student Code of Ethics in the Valdosta State University Student Handbook. Any student caught cheating will be penalized, ranging from receiving a zero for that assignment or test, to failure and expulsion from the course. Please refer to the Valdosta State University, Department of Biology Plagiarism Policy. By taking this course, you agree that all required course work may be subject to submission for textual similarity review to turnitin, a tool within BlazeVIEW.

Students with Documented Disabilities: Students requesting classroom accommodations or modifications due to a documented disability must contact the Access Office for Students with Disabilities located in the Farber Hall. The phone numbers are 245-2498 (V/VP) and 219-1348 (TTY).

Privacy Act: Due to the Buckley Amendment, or Privacy Act, an individual's personal information cannot be released to anyone but that individual. As such, grades will not be discussed over the phone, by email, or released to a friend or relative.

Assessment: Lecture: 3 Exams @100 points each	: 300	points
Cumulative Final	: 200	points
Physiological Situations Assignment	: 100	points
Laboratory Assignments	: 50	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 PSA, 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

DATE	TOPIC	Chapter
13/1	Introduction	
15/1	Homeostasis and Cells	1,3
20/1	Enzymes and Metabolism	3
22/1	Metabolism	3
27/1	Movement of Molecules and Chemical Messengers	4,5
29/1	Nerves, Action Potentials and Synapses	6
3/2	Nervous System and Sensory Physiology	6,7
5/2	Sensory Physiology	7
10/2	EXAMINATION #1	
12/2	Brain	Lab Notebook (13/2 3pm)
17/2	Muscle Physiology	8
19/2	Muscle Physiology	9
24/2	Muscle and Movement	9,10
26/2	Endocrine System	10
3/3	Endocrine System	11
5/3	Cardiovascular Physiology	MID TERM
10/3	EXAMINATION #2	12
12/3	Cardiovascular Physiology	12
17/3	Cardiovascular Physiology	12
19/3	Respiratory System	Lab Notebook (20/3 3pm)
24/3	SPRING BREAK	
26/3	SPRING BREAK	
31/3	Respiratory System	13
2/4	Renal System	Lab Report (3/4 3pm)
7/4	Renal System	14
9/4	Renal System	14
14/4	EXAMINATION #3	
16/4	Gastrointestinal System	15,16
21/4	Gastrointestinal System	15,16
23/4	Reproductive Physiology	Physiological Situations Assignment (24/4 3pm)
28/4	Reproductive Physiology	17
30/4	Immune System	Lab Notebook (31/4 3pm)
5/5	Immune System	18
8/5	FINAL EXAM 10.15am -12.15pm	

Tentative Laboratory Schedule

DATE	Topic
14 January	No Labs
21 January	Introduction to PowerLab and Data Analysis
28 January	Reflexes and Reaction Times
4 February	Frog Sciatic Nerve
11 February	Sensory Physiology / Sensory Illusions
18 February	EOG / EMG
25 February	Muscle
4 March	Frog Skeletal Muscle
11 March	Breathing
18 March	Respiratory Airflow and Volume
25 March	No Labs – Spring Break
1 April	ECG, Heart Sounds and Peripheral Circulation
8 April	Blood Pressure
15 April	Dive Reflex
22 April	Frog Heart
29 April	Galvanic Skin Response and Polygraphs