

BIOL 3460/5460

Credit Hours 3-3-4

HUMAN PHYSIOLOGY

Department of Biology

Instructor: Dr. Timothy J. Fort
Phone: (229) 249-2643
Office Hours: Thursday 3.00pm – 5.00pm

Office: BC 1100
Email: tjfort@valdosta.edu

Lecture:	Tuesday & Thursday	11.00am – 12.15pm	BC 2020
Laboratory:	Sec. A Tuesday	2.30pm – 5.20pm	BC 2070
	Sec. B Wednesday	11.00am – 1.50pm	BC 2070
	Sec. C Wednesday	2.30pm – 5.20pm	BC 2070

Textbook: Vander's Human Physiology, the mechanisms of body function. (11th - 15th 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 (3460): BIOL 3200 and CHEM 1212/1212L or permission of instructor.

Prerequisites (5460): Admission to the graduate program 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.

Face Coverings and Social Distancing: In response to the best available science and current guidance from the C.D.C. and the Georgia D.P.H., while no longer required, students are strongly encouraged to continue wearing a face covering indoors. Unvaccinated students are strongly encouraged to get vaccinated. Vaccines remain available at no cost for students by appointment at Student Health Services. For COVID Vaccines appointments call 229-333-5886.

Quarantine and Isolation: Students, faculty, and staff who have been in close contact with someone who has COVID-19 are not required to quarantine if they have been fully vaccinated against the virus and show no symptoms. Individuals who have not yet been fully vaccinated and who have been in close contact with someone who has COVID-19, show symptoms, or anyone diagnosed as COVID-19 positive should continue to self-report in the MyVSU Portal.

Attendance: Attendance of lectures is expected of all students, but is not required. Attendance of laboratory classes is mandatory. Student attendance of labs 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 or lab you will be asked to leave. **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.

Title IX Statement: Valdosta State University prohibits discrimination on the basis of race, color, ethnicity, national origin, sex (including pregnancy status, sexual harassment and sexual violence), sexual orientation, gender identity, religion, age, national origin, disability, genetic information, or veteran status, in the University's programs and activities as required by applicable laws and regulations such as Title IX. The individual designated with responsibility for coordination of compliance efforts and receipt of inquiries concerning nondiscrimination policies is the University's Title IX Coordinator: Maggie Viverette, Director of the Office of Social Equity, titleix@valosta.edu, 1208 N. Patterson St., Valdosta State University, Valdosta, Georgia 31608, 229-333-5463.

Access Statement: Students with disabilities who are experiencing barriers in this course may contact the Access Office for assistance in determining and implementing reasonable accommodations. The Access Office is located in Farbar Hall. The phone numbers are 229-245-2498 (V), 229-375-5871 (VP) and 229-219-1348 (TTY). For more information, please visit VSU's Access Office or email: access@valdosta.edu.

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:	3 Lecture Exams @100 points each	: 300 points
	Cumulative Final	: 200 points
	Physiological Situations Assignment*	: 100 points
	Laboratory Assignments	: 60 points
	Lab Notebook	: 40 points

-*BIOL5460 students will have extra requirements for completing the Physiological Situations Assignment.

- Lab 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 is granted.

- Make up examinations will only be given if an acceptable documented reason (determined by the instructor) is provided.

- Requirements for the PSA, Lab Notebook and Lab Assignments 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 and Examination Schedule

DATE	TOPIC	Chapter
17/8	Introduction	
19/8	Homeostasis and Cells	1,3
24/8	Enzymes and Metabolism	3
26/8	Metabolism	3
31/8	Movement of Molecules and Chemical Messengers	4,5
2/9	Nerves, Action Potentials and Synapses	6
7/9	Nervous System and Sensory Physiology	6,7
9/9	EXAMINATION #1	
14/9	Sensory Physiology	7
16/9	Muscle Physiology	9
21/9	Muscle Physiology Lab Notebook (22/9 by 3.00pm)	9,10
23/9	Muscle and Movement	10
28/9	Endocrine System	11
30/9	Endocrine System	11
5/10	Endocrine System	11
7/10	EXAMINATION #2 <i>Midterm</i>	
12/10	NO CLASS – FALL BREAK	
14/10	Cardiovascular Physiology <i>Withdrawal Deadline</i>	12
19/10	Cardiovascular Physiology	12
21/10	Cardiovascular Physiology Lab Notebook (22/10 by 3.00pm)	12
26/10	Respiratory System	13
28/10	Respiratory System	13
2/11	Renal System	14
4/11	Renal System	14
9/11	EXAMINATION #3	
11/11	Renal System	14
16/11	Renal System	14
18/11	Gastrointestinal System	15,16
23/11	Gastrointestinal System	15,16
25/11	NO CLASS - THANKSGIVING P.S.A (23/11 by 5.00pm)	
30/11	Reproductive Physiology	17
2/12	Reproductive Physiology Lab Notebook (3/12 by 3.00pm)	17
8/12	FINAL EXAM 10.15am – 12.15pm	

Tentative Laboratory Schedule

Week Beginning	TOPIC
16 August	NO LAB
23 August	Introduction to PowerLab and Data Analysis
30 August	Reflexes and Reaction Times
13 September	Frog Sciatic Nerve
20 September	Sensory Physiology / EOG
23 September	EMG / Muscle
27 September	Frog Skeletal Muscle
4 October	Breathing
11 October	NO LAB - FALL BREAK
18 October	Respiratory Airflow and Volume
25 October	ECG, Heart Sounds and Peripheral Circulation
1 November	Blood Pressure
8 November	Dive Reflex
15 November	Frog Heart
22 November	NO LAB - THANKSGIVING
30 December	Galvanic Skin Response and Polygraphs OR Stroop test