TENTATIVE SYLLABUS FALL 2020

BIOL 3460/5460 Credit Hours 3-3-4

HUMAN PHYSIOLOGY Department of Biology

Instructor: Dr. Timothy J. Fort Office: BC 1100

Phone: (229) 249-2643 Email: tjfort@valdosta.edu

Office Hours: Via E-mail and Phone

(or by scheduled appointment on Mondays 2-4pm BC 2070)

Lecture: Tuesday & Thursday 11.00am – 12.15pm JENNETT 2211

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: Every student must wear a face covering that covers their nose and mouth at all times while in any campus building, including in this classroom. This requirement is intended to protect the health and safety of all VSU students, the instructor, and the entire university community. Anyone attending class without a face covering will be asked to put one on or leave. Students should also be sure they maintain a distance of at least six feet away from their fellow students and instructor and are seated in a seat that is designated to ensure that distance. Students who refuse to wear face coverings appropriately or adhere to other stated requirements may face disciplinary action for Code of Conduct violations.

Corona Virus Resources For Students:

VSU's Coronavirus FAQ page https://www.valdosta.edu/health-advisory/faq.php. Health & Wellness https://www.valdosta.edu/administration/finance-admin/campus-wellness/student-resources.php.

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: Lecture: 3 Exams @100 points each : 300 points : 200 points

Cumulative Final: 200 pointsPhysiological Situations Assignment*: 100 pointsLaboratory Assignments: 70 pointsLab Notebook: 30 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 for 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, 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.

FINAL EXAM: The final examination will be conducted online via the Quiz Feature in BlazeView. This course requires the use of Respondus LockDown Browser for the final examination. Instructions for installing the Respondus LockDown Browser will be found in BlazeView.

Tentative Lecture and Examination Schedule

DATE	TOPIC	Chapter
18/8	Introduction	•
20/8	Homeostasis and Cells	1,3
25/8	Enzymes and Metabolism	3
27/8	Metabolism	3
1/9	Movement of Molecules and Chemical Messengers	4,5
3/9	Nerves, Action Potentials and Synapses	6
8/9	Nervous System and Sensory Physiology	6,7
10/9	EXAMINATION #1	
15/9	Sensory Physiology	7
17/9	Muscle Physiology	9
22/9	Muscle Physiology	9,10
24/9	Muscle and Movement	10
29/9	Endocrine System	11
1/10	Endocrine System	11
6/10	Endocrine System	11
8/10	EXAMINATION #2 Midterm	
13/10	Cardiovascular Physiology	12
15/10	Cardiovascular Physiology Withdrawal Deadline	12
20/10	Cardiovascular Physiology	12
22/10	Respiratory System	13
27/10	Respiratory System	13
29/10	Renal System	14
3/11	Renal System	14
5/11	EXAMINATION #3	
7/11	Make-Up Date: Reproductive Physiology (Online Lecture)	17
10/11	Renal System	14
12/11	Renal System	14
17/11	Gastrointestinal System	15,16
19/11	Gastrointestinal System	15,16
24/11	Gastrointestinal System P.S.A. Due before 5pm 11/25	15,16
26/11	THANKSGIVING	
1/12	NO CLASS: At Home Study for Finals	
3/12	NO CLASS: At Home Study for Finals	
9/12	FINAL EXAM 10.15am – 12.15pm	

Tentative Laboratory Schedule

Be advised, this is a very tentative schedule of topics for both the face to face and online labs.

Week	Group A	Group B
Beginning	-	
17 August	No Lab	No Lab
25 August	Intro to PowerLab and Data Analysis	Online: Virtual Twitch
31 August	Online: Virtual Twitch	Intro to PowerLab and Data Analysis
7 September	Reflexes and Reaction Times	Online: Organ Bath 1 (Skeletal M)
14 September	Online: Organ Bath 1 (Skeletal M)	Reflexes and Reaction Times
21 September	Sensory Physiology / EOG	Online: Organ bath 2 (Smooth M)
28 September	Online: Organ bath 2 (Smooth M)	Sensory Physiology / EOG
5 October	EMG / Muscle	Online: Organ Bath 3 (Smooth M #2)
12 October	Online: Organ Bath 3 (Smooth M #2)	EMG / Muscle
19 October	Breathing	Online: Virtual Neuromuscular Junction
26 October	Online: Virtual Neuromuscular Junction	Breathing
2 November	ECG & Heart Sounds	Online: Virtual Nerve
9 November	Online: Virtual Nerve	ECG & Heart Sounds
16 November	Blood Pressure	Online: Virtual Rat (Cardiovascular)
23 November	Online: Virtual Rat (Cardiovascular)	Blood Pressure