

Zoology 4280: Physiology of Human Systems

Spring 2016; section 001-002

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Office Hours: MW 10-11:00

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Lecture: MWF 9:00-9:50, N331

Lab: M 2:00-4:50, N229

Prerequisites: BIOL 3310 and CHEM 3010, CHEM 3012, or equivalents.

Required Materials:

Vander's Human Physiology, McGraw-Hill, 13e. ISBN 9780077510213 with McGraw-Hill Connect Access. Course webpage: <http://connect.mheducation.com/class/b-sardella-zool-4280-spring-2016>

Attendance: Students are expected to attend all lectures and lab sessions. Please arrive in a timely manner. You will not be awarded any points that your lab group earns in your absence. Poor attendance is highly correlated with a less than optimal final grade!

**Missing class during week one will result in your being dropped from the course to make room for anyone on the waiting list that is present.

Blackboard: We will use Blackboard heavily in this course, if you are not experienced with this site, please take some time to familiarize yourself with how it functions.

- 1) **Lab Safety Course:** You will be assigned the BioLab safety course on Blackboard (2015-2016-BioLabSafety: BioLabSafety). **If this is on your course list, it must be completed with a 100% score by February 5th or you will be dropped from the course!**
- 2) All lab assignments will be facilitated by BlackBoard. Lab exercises and reports can be downloaded and turned in under 'assignments' on the course page.
- 3) Lecture slides will be posted as a pdf file FOLLOWING each lecture session.

Exams: There will be 400 points available via exams with two formats:

- 1) **Online Exams:** Four online exam will be administered on the course connect webpage on each exam day. These exams are worth 50 points and are multiple choice/matching/true-false format. Open notes/book are allowed on these exams, but they are timed at 60 minutes and students should take care not to spend too much time looking for answers in the book or notes. These quizzes consist of 50 randomly-assigned questions, and no two students will have the same exam. Working together is not recommended. Online exams will be available at 10:00 AM on the scheduled exam days, and will be due by 11:59pm of that day.
- 2) **Written Exams:** Four in-class exams will be given that will attempt to tie multiple concepts together. These exams will focus on problem solving and short descriptive essay questions. These are intended to show your ability to integrate the various physiological concepts.

*****NO MAKEUP EXAMS WILL BE GIVEN*****

You must have a serious and compelling reason that can be documented in order to miss an exam, should this occur, the student and professor will develop a plan of action that best suits the circumstances of the absence.

Homework: There will be regular reading/homework assignments for this course. They are due by 11:59pm on the night before the exam covering the HW material. No points will be given for late assignments. Points are awarded for demonstrating your understanding of core physiological concepts. You will learn more about how this works during an orientation session on the first day. You should allow 60-90 minutes for each chapter. Point values vary from

assignment to assignment, and your total homework grade will be calculated as a percentage of total points earned (ie; Max of 100 points). Reading the sections of the book that are not included in the homework is also recommended, the Connect page has a direct link to the e-book in its complete (and user friendly) form.

Lab: Lab meets once per week and attendance is mandatory. Missing lab will result in a zero for that week. You will be associated with one group for the entire lab, and all assignments will be turned in as a group. Lab exercises are available on BlackBoard for download and must be turned in electronically; no paper lab reports will be accepted. Blackboard will block you from submitting twice, so make sure ALL DOCUMENTS are ready to upload when you turn your labs in. It is highly recommended to read and understand the lab prior to lab day; this will ensure a timely completion of the exercise. Final Lab reports are due posted on Bb prior to the start of the next week's lab. The lab report logistics will be covered during an orientation on the first day. Each lab report is worth 10 points, and the final score for lab will be based on your percentage of the total points, with a maximum of 100 points possible.

Research Project: There will be a 50 point group lab research project due at the end of the term. This project will give students an opportunity to use the tools available within the physiology lab to design, set up and conduct their own research. Our final day of lecture will be a poster session, where peer review will be given and each group will briefly discuss their work. More information will be given in lab.

Open Labs: The last several weeks of the lab will include open lab time for groups to work on their projects.

Assessment: There will be a subjective grade worth 20 points based on you lab participation. 10 points will be peer-evaluated, and 10 points will be instructor evaluated. Not participating, being late, or unexcused absences will dramatically lower this grade.

Evaluation:

Four Online Exams (50 each)	200
Four In-Class Written Exams (50 each)	200
Group Lab Reports (% of total)	100
Homework/Reading (% of total)	100
Research Project	50
<u>Assessment (Peer and Instructor)</u>	<u>20</u>
Total Cumulative Points:	670

Grading: A percentage of total points will be calculated, and the following scale used:

A: 100-90; **B:** 89-80; **C:** 79-70; **D:** 69-60 **F:** 59-0

+/- will be assigned by instructors discretion.

- The CR/NC grading option is not approved for this course; only letter grades can be earned.

Course Drop and Withdrawal Policy

Withdraw after the census date can only be done with a documented serious and compelling reason. The Department of Biological Sciences chair will not sign a withdrawal form otherwise, regardless of the instructor's view. It is highly recommended that if you wish to drop the class, you do so by the census date!

A grade of "incomplete" will only be considered when a serious and compelling reason is given. An Incomplete signifies (1) that a portion of required coursework has not been completed and evaluated in the prescribed time period due to unforeseen but fully justified reasons beyond the student's control, and (2) that there is still a possibility of earning credit. It is the responsibility of the student to bring pertinent information to the attention of the instructor and to determine from the instructor the remaining course requirements which must be satisfied to remove the Incomplete.

Academic Dishonesty: There will be a zero tolerance policy for academic dishonesty, this includes, but is not limited to, cheating, plagiarism, and use of course materials in an inappropriate manner such as posting online. Violating this policy will result in a failing grade for the course and referral to the Student Judicial Affairs Office. See University code of conduct for more info: <http://www.csustan.edu/judicial-affairs/student-responsibilities>

Tentative Schedule

Week	Day	Date	System/Topic	Ch.	Lab
1	F	28-Jan	Course Intro		No Labs
2	M	1-Feb	Homeostasis	1	Lab Orientation/Tutorial/Experimental Design Homeostasis: Blood Pressure and HR Graphs
	W	3-Feb	Homeostasis		
	F	5-Feb	Chemistry Review	2	
3	M	8-Feb	Transport	4	Membrane Transport
	W	10-Feb	Transport		
	F	12-Feb	Cells	3	
4	M	15-Feb	Metabolism		Enzymes
	W	17-Feb	Metabolism		
	F	19-Feb	EXAM I (HW Due)		
5	M	22-Feb	Nerves	6	Action Potential Activity
	W	24-Feb	nerves		
	F	26-Feb	nerves		
6	M	29-Feb	nerves	7	The Electroencephalogram (BP 3 and 4)
	W	2-Mar	Senses		
	F	4-Mar	Senses		
7	M	7-Mar	Endocrine	5	The Polygraph and Senses (BP 9)
	W	9-Mar	Endocrine		
	F	11-Mar	Muscle	9	
8	M	14-Mar	Muscle		Muscles and Reaction Time (BP 1, 2, and 11)
	W	16-Mar	Muscle		
	F	18-Mar	EXAM II (HW Due)		
9	M	21-Mar	Cardiovascular	12	Cardio I: The EKG and Pulse (BP 5 and 7)
	W	23-Mar	Cardiovascular		
	F	25-Mar	Cardiovascular		
10	Spring Break!				
11	M	4-Apr	Cardiovascular	13	Cardio II: Blood Pressure and Auscultation (BP 16 and 17)
	W	6-Apr	Cardiovascular		
	F	8-Apr	Respiratory		
12	M	11-Apr	Respiratory	16	Respiration and Acid Base Regulation (BP 12)
	W	13-Apr	Respiratory		
	F	15-Apr	Metabolism		
13	M	18-Apr	Metabolism	14	Project Development
	W	20-Apr	EXAM III (HW Due)		
	F	22-Apr	Kidney		

14	M	25-Apr	Kidney		Urinalysis and Salt Excretion
	W	27-Apr	Kidney		
	F	29-Apr	Kidney		
15	M	2-May	Digestion	15	Project
	W	4-May	Digestion		
	F	6-May	Digestion		
16	M	9-May	Reproduction	17	Project
	W	11-May	Reproduction		
	F	13-May	<i>Warrior Day-No Lecture</i>		
	M	17-May	Posters!		

****Exam IV (non-cumulative) and the fourth HW due date will be during finals week****

Don't Fall Behind! This is a difficult course due to the material, and it builds one day after the next. Skipping lectures, or putting off studying will result in you getting lost very quickly. If you keep up with the material, you will do much better and enjoy the course much more!!

YOU are responsible for YOUR education, but do not hesitate to get help when needed... Good Luck!