

ZOOL 2232 Syllabus, Spring 2012

Instructor: Dr. Jennifer Cooper
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CHECK YOUR CSUSTAN EMAIL EVERY DAY.
Office Location: N256
Office hours: Monday 11:00 – 1:00, Wednesday 1:00 – 2:00
Laboratories: Monday **or** Tuesday 2:00-4:50 pm in N229
Prerequisite: Biol. 1010, or Biol. 1050, or Zool. 2250

Required Text: PhysioEX 9.0 Laboratory Simulations in Physiology by Zao, Stabler, and Peterson

Objectives: To illustrate, with laboratory experiments, exercises and demonstrations, the principles of physiology with special reference to human physiology.

Grading: Grading will be based on 250 total points as follows:

Weekly quizzes: 10 at 10 points each, total of 100 points

Laboratory worksheets: 6 at 25 points each, total of 150 points

Points	Grade
> 225	A
200 - 224	B
175 - 199	C
150 - 174	D
< 149	F

Laboratory Worksheets

You will be in assigned groups (especially important when we use the BioPac and PhysioEx software), and laboratory worksheets will be submitted as a group exercise. Worksheets will be collected every week at the beginning of lab. These worksheets consist of materials that are downloadable from the web site. This includes questions listed in the exercises as well as data sheets for the BioPac and PhysioEx exercises.

Please do not use the lab printer to print your lab exercises and worksheets.

I will ask for worksheets at the beginning of the lab the week after the exercise has been completed. Worksheets must be turned in at the beginning of the period; I will not accept them after the quiz has been administered. I will grade 6 of the assignments you turn in, but I won't tell you which ones I plan to grade.

All group members must participate in generating the data and answering the questions. Points will be subtracted from your laboratory worksheet grade for each unanswered question or incomplete data table. If there is a person in your group who is not doing their share, report them (in private, if you prefer) and I will dock their grade.

Attendance

It is required that you attend and remain in the laboratory until the entire exercise is completed, including cleaning up your area. Individuals leaving their lab partners to collect data will be marked absent. **There are no make-up labs available, and persons missing a lab will not be able to earn any points for that lab worksheet, even though their group turned in a completed assignment.**

Quizzes

Quizzes will usually be in a multiple choice or short answer format, and will cover material from the previous week's labs as well as testing your preparation for the lab we are doing that day. So read your lab assignment before coming to lab! If you miss a quiz because of illness, I will allow you to make it up if you can provide a doctor's note documenting that you were ill that day.

Course Website:

All classroom materials (assignments, lab materials and announcements) will be available through the Moodle website. You should visit Moodle at least every other day to check for new material. I will not post grades on Moodle because, as adults, you are perfectly capable of archiving your own grades.

<http://biology.csustan.edu/Biology/biology-moodle/>

Your Moodle login for this course is the portion of your email address before the @ (**xxxx@csustan.edu**). Initially, your password will be set as your CSU Stanislaus ID (the number on your ID card, including any zeros at the beginning). The first time you log in, Moodle will ask you to change your password, and you can choose whatever you like as long as it conforms to the password criteria set by Moodle. **WRITE THIS PASSWORD DOWN**. About 1/3 of students forget their passwords at some point in the semester, so prepare for that and write the password down and keep it in a protected place.

If you have trouble logging in to Moodle for the first time, this may be because you have used Moodle for another class at CSU Stanislaus. Try your old password. If it doesn't work, email me so I can re-set your password.

General

Please read the Laboratory Safety Guidelines and Laboratory Policies posted on the web site and handed out in class.

At the beginning of each lab, organize your lab space and get all necessary glassware, instruments and reagents. Be aware of what you and your lab partners are doing. At the end of each lab, you are responsible for cleaning all glassware and returning all supplies to their proper locations. **Missing and broken labware will be charged to the group responsible.**

Your group is responsible for its supplies. I will deduct 5% of your total lab points for unclean or misplaced equipment from each member of the offending group. At the end of class, all lab benches will be cleaned with a disinfectant soap. There is **NO FOOD OR DRINK** allowed in the lab.

Tentative Laboratory Schedule (this schedule is subject to change.)

Week	Lab.	Topic	Handouts	Biopac	PhysioEx
1/30 or 1/31	1	Getting Started Introductory video	Lab safety, syllabus		
2/6 or 2/7	2	Homeostatic mechanisms	Homeostasis		
2/13 or 2/14	3	Diffusion, Osmosis and Tonicity	Transport		1
2/20 or 2/21	4	The Digestive System	Digestion		8
2/27 or 2/28	5	Blood Glucose Metabolism	Glucose		4 (3)
3/5 or 3/6	6	Measurements of Pulmonary Function	Pulmonary	12 13	
3/12 or 3/13	7	The Cardiovascular System	Cardio	7	6
3/19 or 3/20	8	The Blood Clotting Reaction			11
3/26 or 3/27	9	The Muscular System	Muscle	1 2	
4/2 or 4/3	10	Muscular System cont. The Endocrine System			2 4 (1, 3, 4)
4/9 or 4/10		SPRING BREAK NO LAB			
4/16 or 4/17	11	Renal Regulation of Fluid and Electrolyte Balance	Renal		
4/23 or 4/24	12	The Nervous System	Video		3
4/30 or 5/1	13	Nervous System continued	Video continued	11	
5/7 or 5/8	14	The Immune System	Immunity, video		
5/14 or 5/15	15	Acid-Base Balance	Acid-Base		10