

# PHYSIOLOGY LABORATORY (ZOO 2232) SYLLABUS

## W 2:00 – 4:50 pm; Room N229

**Instructor: Dr. Katherine M. Schroeder**

Email: [kschroeder@csustan.edu](mailto:kschroeder@csustan.edu)

Office hours: TR: 2:00-3:00 or by appointment, room N252

Office phone: 667-3838

**Prerequisite:** Zool 2230 or concurrent enrollment

### Objectives

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

### Required text and other materials

- *PhysioEx 9.1 Laboratory simulations in Physiology* by Zao *et al.*

### Grading

	Points	~% of final grade
Exam 1	20	20.0
Exam 2	20	20.0
Exam 3	20	20.0
Lab assignments	30	30.0
Group project	10	10.0
Total	100	100

### Exams

- Short answer, multiple choice, matching, fill-in-blank

### Lab assignments

- Due at beginning of following lab session unless otherwise specified
- 17 assignments, equally weighted
- No lab makeups

### Group project

- Each group of three will be responsible for discussing answers to a given assignment

### Final grade

93-100% = A	87-89% = B+	77-79% = C+	67-69% = D+
90-92% = A-	83-86% = B	73-76% = C	60-66% = D
	80-82% = B-	70-72% = C-	0-59% = F

Tentative Lab Outline					
Week	Date	Topic	Handout	Biopac	PhysioEx
1	2/4	Homeostasis	Homeostasis; metrics		
2	2/11	Tissues and Organs	Tissues		
3	2/18	Enzymes and Digestion	Digestion		8: 4
4	2/25	Measurement of Plasma Glucose	Glucose determination		4: 2
5	3/4	Diffusion, Osmosis, and Tonicity	Transport		
6	3/11	<b>Exam 1</b> ; Endocrine system			4: 1
7	3/18	Nervous System	Sensory		3: 1,2
8	3/25	The Muscular System		1,2	2: 1, 2, 3
9	4/1	The Cardiovascular System		5,7	6: 1, 2, 4
10	4/8	Spring Break!			
11	4/15	<b>Exam 2</b> ; Immune System	Immunity; video		
12	4/22	Measurements of Pulmonary Function		12,13	
13	4/29	Renal Regulation	Renal lab		
14	5/6	Acid-base Balance	Acid-base Balance		10: 1,2
15	5/13	<b>Exam 3</b>			