

PHYSIOLOGY LABORATORY (ZOOL 2232) SYLLABUS

M 2:00 – 4:50 pm; Room N229

Instructor: Dr. Katherine M. Schroeder

Email: 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	2/2	Homeostasis	Homeostasis; metrics		
2	2/9	Tissues and Organs	Tissues		
3	2/16	Enzymes and Digestion	Digestion		8: 4
4	2/23	Measurement of Plasma Glucose	Glucose determination		4: 2
5	3/2	Diffusion, Osmosis, and Tonicity	Transport		
6	3/9	Exam 1 ; Endocrine system			4: 1
7	3/16	Nervous System	Sensory		3: 1,2
8	3/23	The Muscular System		1,2	2: 1, 2, 3
9	3/30	The Cardiovascular System		5,7	6: 1, 2, 4
10	4/6	Spring Break!			
11	4/13	Exam 2 ; Immune System	Immunity; video		
12	4/20	Measurements of Pulmonary Function		12,13	
13	4/27	Renal Regulation	Renal lab		
14	5/4	Acid-base Balance	Acid-base Balance		10: 1,2
15	5/11	Exam 3			