

PHYSIOLOGY LABORATORY (ZOOL 2232) SYLLABUS

T 2:00 – 4:50 pm; Room N229

Instructor: Dr. Katherine M. Schroeder

Email: kschroeder@csustan.edu

Office hours: Tuesdays: 11:30-1:30 am 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 9.0 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

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+

90-92% = A- 83-86% = B

80-82% = B-

77-79% = C+

73-76% = C

70-72% = C-

67-69% = D+

60-66% = D

0-59% = F

Tentative Lab Outline					
Week	Date	Topic	Handout	Biopac	PhysioEx
1	1/28	Overview; Homeostasis	Homeostasis; metrics		
2	2/4	Tissues and Organs	Tissues		
3	2/11	Diffusion, Osmosis, and Tonicity	Transport		
4	2/18	Measurement of Plasma Glucose	Glucose determination		
5	2/25	Exam 1 ; Enzymes	Digestion		8: 3-4
6	3/4	Measurements of Pulmonary Function		12,13	
7	3/11	The Cardiovascular System I		5,7	
8	3/18	The Cardiovascular System II		5,7	6: 1-5
9	3/25	Exam 2 ; Immune System	Immunity; video		
10	4/1	The Muscular System		1,2	2: 1-6
11	4/8	Renal Regulation	Renal lab		
12	4/15	Acid-base Balance			10: 1-4
13	4/22	Spring Break!			
14	4/29	The Nervous System	Sensory		
15	5/6	The Endocrine System			4: 1-4
16	5/13	Exam 3			