

Zoology 2235: Human Physiology Lab

Fall 2019

Instructor: Sandra Lehmann Vierra, MPH

Email: slehmannvierra@csustan.edu

Office: N232, Hours: T 2:00-4:50

Labs: 004: T 9:30-12:20 and 005: T 2:00-4:50

Note-Lecture and lab combine to make up the course, they cannot be taken separately.

Prerequisites: Zoology 2250 with a C or better; Chemistry 1000, 1100, or 2100 with a C or better.

**ZOOL 2235 is taught with the understanding that students know the material from the prerequisites! Needed Material from Anatomy and Chemistry will NOT be covered.

Required Material: All required material can be found on Blackboard

Attendance: Students are expected to attend all lab sessions. Please arrive on time! Attendance will not be graded, but poor attendance is highly correlated to a poor lab score.

**Missing class during week one may 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.

Lab Safety Course: You will be assigned the BioLab safety course on Blackboard (2019-2020-BioLabSafety: BioLabSafety). This must be completed with 100% score by Feb. 4 or you will be dropped from the course!

Evaluation:

- Lab Reports: A group lab report is due for each week's lab exercise. Each report is worth 10 points each and include participation points to be awarded by your lab instructor.
- Lab scores will be given to Dr. Sardella. He is the instructor of record.

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>

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, so do not hesitate to get help when needed... Good Luck!

Tentative Schedule of Assignments

WEEK 1 (01/28)

Lab 1 - Lab Orientation & Introduction to Physiological Study

WEEK 2 (02/04)

Lab 2 - Membrane Transport: Diffusion & Osmosis

WEEK 3 (02/11)

Lab 3 - Senses & Reaction Time

WEEK 4 (02/18)

Lab 4 - Integrated Nervous Pathways

WEEK 5 (02/25)

Lab 5 - Glucose Measurement & Spectrophotometry

WEEK 6 (03/03)

Lab 6 - The Electromyogram

WEEK 7 (03/10)

Lab 7 - Cardiovascular Reflexes

WEEK 8 (03/17)

Lab 8 - EKG, Pulse, & Blood Pressure

WEEK 9 (03/24)

NO LAB (03/23 - 03/27) — SPRING BREAK

WEEK 10 (03/31)

NO LAB (03/30 - 04/03) — 03/31 CESAR CHAVEZ DAY

WEEK 11 (04/07)

Lab 9 - Lung Volumes & Spirometry

WEEK 12 (04/14)

Lab 10 - Salt & Water Balance: "Pee Lab"

WEEK 13 (04/21)

Lab 11 - Digestion & Enzymes

WEEK 14 (04/30 - 05/04)

Lab 12 - Respiration & Acid-Base Balance

WEEK 15 (05/05)

Lab 13 - Exercise Physiology