

**HUMAN PHYSIOLOGY LAB
ZOOLOGY 2235-004, Lab Sec. 002 & 004
FALL 2018**

Professor: Sandra Lehmann Vierra, MPH

E-mail: slehmannvierra@csustan.edu

Phone: 209-667-3838 (prefer email)

Blackboard

Office Hours: Room N252, TTh 12pm-1pm, or by appt.

Note: Students are responsible for reading and knowing the information within this syllabus. If it is in the syllabus, do not ask the question; you will be referred back to the syllabus. The instructor reserves the right to make changes to the syllabus as necessary.

Required Material

- Individual lab assignments and worksheets (Blackboard)
- Lab notes on Blackboard
- Recommended: basic calculator, 3-ring binder, colored pencils, regular pencil
- Access to and simple proficiency with computers

Course Description

Zoology 2235 is an in depth study into the functions of the human body. It covers physiological systems, with extended detail on metabolism, nerves, muscles, cardiovascular, respiratory, and urinary functions. For students desiring to enter nursing program or kinesiology. Course Prerequisites/Requirements: BIOL 1010/1020 or BIOL 1050. Grade of C or better in ZOOL 2250 and Human Anatomy.

Fall 2018: Lab Sec. 002 — T 2pm-4:50pm in N229
 Lab Sec. 004 — W 9am-11:50am in N229

Attendance: Students are expected to attend all lectures and lab sessions. Please arrive in a timely manner. Poor attendance is highly correlated with a less than optimal final grade!

**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.

- 1) Lab Safety Course: You will be assigned the BioLab Safety Course on Blackboard (2018-2019-BioLabSafety: BioLabSafety). **This must be completed with a 100% score by Sep 1st or you will be dropped from the course!**
- 2) All lab assignments will be facilitated by BlackBoard. Lab exercises and reports can be downloaded under 'assignments' on the course page.
- 3) Lab notes will be posted as a pdf file FOLLOWING each lab session.

Exams: There will be 200 points available via lab exams. These score will be provided to Dr. Sardella to included in the calculation of the course grade.

*****NO MAKEUP EXAMS WILL BE GIVEN*****

(You must have a serious and compelling reason that can be documented in order to miss an exam, should this occur, the student and instructor will develop a plan of action that best suits the circumstances of the absence.

Course Drop and Withdrawal Policy: Withdraw after the census date can only be done with a documented serious and compelling reason. The Department of Biological Sciences chair will not sign a withdrawal form otherwise, regardless of the instructor's view. It is highly recommended that if you wish to drop the class, you do so by the census date! A grade of "incomplete" will not be considered under any circumstance, you may petition for a withdrawal if a serious and compelling reason is given.

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>

EIGHT HABITS TO PRACTICE IN ORDER TO SUCCEED IN BIOLOGY

1. **Prepare for Class.** Complete reading assignments and online work before you come to lecture and lab. This is VERY important. Reading and hearing the terms and concepts will aid comprehension and help with in class discussions.
2. **Attend all classes AND take notes.** Successful students never miss class except in a dire emergency. It is essential for mastery of material that you read it, hear it, discuss it, and apply it. Taking additional notes will help you focus during class.
3. **Review your notes nightly.** Re-write, modify, and expand your notes within 24 hours of a lecture. Use mind-mapping, charts, summary tables, and doodling to help you to understand concepts.
4. **Be proactive and form a study group or attend tutoring.** For many people, learning is social. It can help to explain material or think through problems posed in class. Talk to people around you and find a group that you think will benefit your learning. Challenge each other to apply the concepts we discuss. It will help you build concepts.
5. **Ask questions.** Don't be shy. Feel free to contact the instructor if you have any questions. You may also ask for help from your fellow students. If you do not understand something, chances are that someone else has the same question. Stop the instructor and ask questions in lecture or lab. Go to office hours.
6. **Find your learning style.** We all learn differently and at different rates. Identify the techniques that help you learn best. Most of us are a mixture of visual, tactile, auditory, social, read/write learners. Using your learning strength will help you in this class and throughout your college career.
7. **Do not fall behind.** The pace in this class is fast. We cover a lot of material. Keep up with your reading and lab write-ups. Remember you are learning a new language. Cramming does not work. Only you can put in the time that will lead to a deep understanding. Understanding translates into a good grade.
8. **Make it about learning;** not about getting a good grade. If you focus on understanding, the grades will follow.

Tentative Schedule of Assignments

WEEK 1 (08/22)

No lab this first week.

WEEK 2 (08/28 or 08/29)

Lab 1 - Lab Orientation & Physiological Data Collection

WEEK 3 (09/04 or 09/05)

Labor Day — No lab this week

WEEK 4 (09/11 or 09/12)

Lab 2 - Membrane Transport

WEEK 5 (09/18 or 09/19)

Lab 3 - Senses & Reflexes

WEEK 6 (09/25 or 09/26)

Lab 4 -Integrated Nerve Pathways

WEEK 7 (10/02 or 10/03)

Lab 5 -The Electromyogram

WEEK 8 (10/09 or 10/10)

Columbus Day — No lab this week

WEEK 9 (10/16 or 10/17)

LAB EXAM 1

WEEK 10 (10/23 or 10/24)

Lab 6 - Cardiovascular Reflexes & the EKG

WEEK 11 (10/30 or 10/31)

Lab 7 - Pulmonary Volumes & Capacities

WEEK 12 (11/06 or 11/07)

Lab 8 - Renal Salt & Water Balance

WEEK 13 (11/13 or 11/14)

Veteran's Day — No lab this week

WEEK 14 (11/20 or 11/21) — Thanksgiving Break 11/22-11/23

Lab 9 - The Electrogastrogram

WEEK 15 (11/27 or 11/28)

Lab 10 - Exercise Physiology

WEEK 16 (12/04 or 12/05)

LAB EXAM 2