

**BIOL 2101 HUMAN ANATOMY AND PHYSIOLOGY I LAB (1 credit)**  
**SRSU Syllabus and Course Information Fall 2021**

**Lab Instructor:** Ms. Anne Marie Hilscher

**Lab Room:** WSB 109

**Lab times:** Section 001 T 3:30-5:20 pm  
Section 002 T 7:00-8:50 pm

**Instructor office hours:** MWF 10-11:30; M 1:00-3:00; T 10:50-11:30 & 1:00-3:00; R 10:50-11:30 & 1-3; by appt.

**Email:** [ahilscher@sulross.edu](mailto:ahilscher@sulross.edu)

**Office:** WSB 220

**Phone:** 432.837.8820

**Optional Lab Manual:** Allen, C. and V. Harper. *Laboratory Manual for Anatomy and Physiology*. 4<sup>th</sup> or 5<sup>th</sup> edition. **I've used this manual in the past, but it is not required this semester.**

**Course Description:**

The purpose of this course is to introduce students to the importance of the human body and its various organ systems. This is designed as the first semester of a two-semester course, and will cover basic internal life processes, as well as emphasizing the skeletal, muscular, nervous, and endocrine systems. This laboratory will focus on hands-on learning, combining laboratory and microscopic techniques with classical dissection.

**Grading:**

A total of **220 points** possible will count towards your overall grade and be determined by your performance on:

<b>Lab Practicals</b> (3 @ 40 points each)	<b>120</b>	<b>54%</b>
<b>Lab Exercises/Handouts</b> (5 @ 10 points each)	<b>50</b>	<b>23%</b>
<b>Lab Quizzes</b> (5 @ 10 points each)	<b>50</b>	<b>23%</b>
<b>TOTAL</b>	<b>220</b>	<b>100%</b>

Each quiz will cover material presented in the previous lab(s). Quizzes will focus on the identification of structures and understanding of conceptual material.

**Suggestion:**

As per SRSU policy, students shall be dropped from the class with an F if they miss 20% (3 labs) over the course of the semester. If you are unable to attend lecture, please notify me by either e-mail, phone, or in person so that you will not be unnecessarily dropped from the course. Also, this course will involve dissections in the second half of the term. As such, please dress accordingly and avoid unnecessary problems (dangling hair, formal wear, etc.).

**Lecture courtesy:** The general rules of classroom etiquette are below.

- 1) Please do not talk to others in class while the instructor is lecturing. If you have a question, please ask the instructor.
- 2) No food or drink in the lab.
- 3) If you are going to attend class, please do so. Leaving and returning to class repeatedly is disruptive, as well as showing up after half the period is over.
- 4) Please turn cell phones and pagers to silent while in class. They are disruptive to the entire class and distract others, as well.

## Laboratory Schedule

<b>Date</b>	<b>Lab # / Lab topic</b>
Aug 24	<b>NO LABS</b>
Aug 31	01 Anatomical Positions/Microscope/Tissues
Sept 07	02 Enzymes
Sept 14	03 Cell Transport Mechanisms
Sept 21	04 Cell Anatomy & Structure
<b>Sept 28</b>	<b>Lab Practical I</b>
Oct 05	05 Overview of the Skeleton; Axial Skeleton
Oct 12	06 Appendicular Skeleton
Oct 19	07 Brain & Cranial Nerves
Oct 26	08 General Senses; Olfaction & Taste
Nov 02	<b>Lab Practical II</b>
Nov 09	09 Muscles I
Nov 16	10 Muscles II
Nov 23	11 Articulations and Body Movements
<b>Nov 30</b>	<b>Lab Practical III – <i>Last Lab</i></b>

Note – This outline is subject to change for reasons of course interest, time constraint, or instructor whim. The exams will be administered on the dates indicated.

### STUDENT LEARNING OUTCOMES (SLOs)

The graduating biology student graduating with a BS in Biology should be able to:

- 1) The student will be able to demonstrate an understanding of basic biological concepts, including but not limited to evolution via natural selection, cell theory, and the role and function of DNA.
- 2) The student will be able to demonstrate utilization of various field techniques toward addressing scientific questions in the specific discipline. These field techniques can include, but are not limited to, plant collection and processing, various animal collection techniques, ecological surveying and sampling, and biodiversity indexing.
- 3) The student will be able to use biological instrumentation to solve biological problems using standard observational strategies.
- 4) The student will develop writing skills by summarizing and critiquing recent relevant biological literature.

### CORE OBJECTIVES:

- 1) Communication Skills – Students will effectively communicate the results of scientific investigations, using oral, written, and visual communication, either in group discussions or on written exams.
- 2) Critical Thinking Skills – Students will include creative thinking, innovation, inquiry, and analysis required to relate new information with previous information in a way that demonstrates the diversity and similarity due to evolutionary ancestry.
- 3) Empirical and Quantitative Skills – Students will use basic math skills to solve problems (e.g., related to genetic outcomes, cellular energy production, and probability) resulting in informed conclusions.
- 4) Teamwork Skills – Students will work effectively with others to support a shared goal during lab sessions on activities, such as dissections, problem solving, and other experimental procedures.

**MARKETABLE SKILLS:** A student getting a degree in the biological sciences would be expected to acquire the following marketable skills by graduation.

- 1) Students will be able to organize, analyze, and interpret data.
- 2) Students will be proficient at using presentation software.
- 3) Students will acquire experience in managing time and meeting deadlines.
- 4) Students will gain the ability to speak effectively and write concisely about scientific topics.
- 5) Students will acquire experience and guidance in the development of professional email correspondence.

**ADA Statement:** Sul Ross State University is committed to equal access in compliance with the Americans with Disabilities Act of 1973. Students with qualifying disabilities who seek accommodations must initiate a request for a meeting for accessibility services. Students seeking accessibility services must contact Rebecca Greathouse Wren, M.Ed., LPC-S, Counseling & Accessibility Services, Telephone: 432-837-8203, or email: [rebecca.wren@sulross.edu](mailto:rebecca.wren@sulross.edu). For more information see: <https://www.sulross.edu/page/1384/accessibility-services>

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**COVID-19 Response:** Hand sanitizer stations are placed at all building entrances and students are encouraged to use them in addition to handwashing. Given the high level of contagion of this coronavirus and the implications of its disease COVID-19, it's highly recommended you wear a mask and socially distance in public spaces.