

BIOL 2101 HUMAN ANATOMY AND PHYSIOLOGY I LAB (1 credit)
SRSU Syllabus and Course Information Fall 2022

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: MW 9-10 & 1-3; TR 8:30-9:30 & 10:45-11:30; F 9-10; & by appt.
Email: ahilscher@sulross.edu **Office:** WSB 220 **Phone:** 432.837.8820

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

NOT REQUIRED

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 **240 points** possible will count towards your overall grade and be determined by your performance on:

Lab Practicals (3 @ 40 points each)	120	41%
Lab Quizzes (highest 5 @ 20 points each)	100	34%
Lab Exercises (3 @ 25 points each)	75	25%
TOTAL	295	100%

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

Date	Lab # / Lab topic
Aug 23	NO LABS
Aug 30	01 Anatomical Positions/Microscope/Tissues
Sept 06	02 Enzymes
Sept 13	03 Cell Transport Mechanisms
Sept 20	04 Tonicity; Overview of Skeletal System
Sept 27	Lab Practical I
Oct 04	05 Axial Skeleton
Oct 11	06 Appendicular Skeleton
Oct 18	07 Articulations
Oct 25	08 Brain & Cranial Nerves
Nov 01	Lab Practical II
Nov 08	09 Muscles I
Nov 15	10 Muscles II
Nov 22	11 General Senses
Nov 29	Lab Practical III – Last Lab

Note – This outline is subject to change for reasons of course interest or time constraint. 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.

SRSU Disability Services. SRSU Disability Services. Sul Ross State University (SRSU) is committed to equal access in compliance with Americans with Disabilities Act of 1973. It is SRSU policy to provide reasonable accommodations to students with documented disabilities. It is the student's responsibility to initiate a request each semester for each class. Alpine students seeking accessibility/accommodations services must contact Mary Schwartz Grisham, M.Ed., LPC, SRSU's Accessibility Services Coordinator at 432-837-8203 (please leave a message and we'll get back to you as soon as we can during working hours), or email mschwartz@sulross.edu Our office is located on the first floor of Ferguson Hall (Suite 112), and our mailing address is P.O. Box C-122, Sul Ross State University, Alpine, Texas, 79832.

SRSU Library Services. The Sul Ross Library offers FREE resources and services to the entire SRSU community. Access and borrow books, articles, and more by visiting the library's website, library.sulross.edu. Off-campus access requires your LoboID and password. Check out materials using your photo ID. Librarians are a tremendous resource for your coursework and can be reached in person, by email (srsulibrary@sulross.edu), or phone (432-837-8123).

COVID-19 Response: Hand sanitizer stations are placed at all building entrances and students are encouraged to use them in addition to handwashing.