

BIOL 2301 Human Anatomy & Physiology Lecture (3 credit hours)
SRSU Syllabus and Course Information Fall 2025

Instructor: Mrs Jena Carey
Office: WSB 220
Phone: 432.837.8820
Class time: TR 9:30-10:45 WSB 201

Office hours: MW 8-10:30; TR 8-9 a.m.; F by appt.
Please email me at any time. I will respond within 24 hours (up to 48 hours on weekends). **Email:** jena.carey@sulross.edu
Type "BIOL 2301" in the subject line & sign your email

- **Optional Textbook:** Saladin, K. S. *Anatomy and Physiology*. or another comparable A&P text
- **Free online open-source textbook:** <https://openstax.org/details/books/anatomy-and-physiology>
*The important thing is for you to have a textbook that is useful to **you** personally. I will be referencing this free resource frequently throughout the 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. Combined with the laboratory, students should come away with an understanding of the above systems, mitosis, protein synthesis, and basic cellular functionality.

Student Learning Objectives for this Course:

1. Students will define the cellular aspects of human organ systems and identify the part of the cell.
2. Students will illustrate knowledge of the central nervous system.
3. Students will diagram the location of muscles and bones within the body and explain their use and function.
4. Students will demonstrate an understanding of the mechanics of muscle movement
5. Students will apply the genetic code to solving protein synthesis questions
6. Students will compare and contrast the use and effectiveness of the various senses.

Grading:

Student Introduction	50
Mini Exam	50
Concept Maps (10 @ 10 pt ea)	100
TBL	130
Attendance (10 pts daily)	270
Lecture Exams (4 @ 100 pt ea)	400
TOTAL	1000

ATTENDANCE, DUE DATES, & EXAMS.

- If you arrive for an exam after start time, you **will not** be allowed to take the exam, or be offered a makeup exam.
- Missing any exam without notifying me one week in advance will result in a zero for that exam grade—no exceptions. Exam dates are in the syllabus, so plan ahead.
- **Any tardiness will result in half day deduction in points, per occurrence. Any absences will result in full day deduction in points**
- Assignment due dates are listed. If you know you'll be gone (appt, athletics, etc.) submit the assignment **before you leave**. Any late assignments will automatically receive half credit at most.
- If you fail to appear (or appear late) for your scheduled makeup exam, you will receive a zero.
- Finally, if you miss a class, it is **your** responsibility to get notes and other important information from a **classmate**. *I will not provide copies of my notes.*

Tentative Schedule

Date	Lecture topic
Aug 26	Introduction; Major themes of A&P
Aug 28	Chemistry of Life
Sept 02	Cellular Form/Function; Membranes; Concept Map 1 Due
Sept 04	Mini Exam
Sept 09	Cell Respiration
Sept 11	DNA Structure; Concept Map 2 Due
Sept 16	Protein Synthesis
Sept 18	Review; Concept Map 3 Due
Sept 23	Exam 1
Sept 25	Histology
Sept 30	Histology, cont.; Concept Map 4 Due
Oct 02	Integumentary
Oct 07	Integumentary, cont.; Concept Map 5 Due
Oct 09	Muscle
Oct 14	Muscle, cont.; Concept Map 6 Due
Oct 16	Review
Oct 21	Exam II
Oct 23	Nervous
Oct 28	Synapses; Concept Map 7 Due
Oct 30	CNS
Nov 04	Brain Functions; Concept Map 8 Due
Nov 06	PNS/ANS/ENS
Nov 11	Neural Disorders; Concept Map 9 Due
Nov 13	Exam III
Nov 18	Senses
Nov 20	Senses, cont; Concept Map 10 Due
Nov 25-7	THANKSGIVING!! :D
Dec 02	Review
Dec 04	Dead Day- No classes
TBD	Exam IV See Final Exam Schedule for date & time

GRADING CONTINUED...

FINAL EXAM: Final exam date and time will be announced in due course. It will comprise of semi-comprehensive lecture material. Any student who has an "A" (90 or higher) will be exempt from the final. This grade will be determined before Dead Day and will include ALL extra credit points. No exceptions or extensions, the grade on Dead Day must equal 90 or higher (89.99 and below must attend the final or receive a zero for the final exam).

EXAM GRADES: Grades will not be rounded up. Any exam extra credit will be added to the grade posted on Blackboard.

FINAL GRADES: Grades will not be rounded up. There are no exceptions. Do not ask for any extra credit or rounding at the end of the semester. Any asking for extra points or rounding will incur loss of any extra credit points accumulated throughout the semester. Extra Credit points will not be added to Attendance grades- if you are tardy or miss class, those are your points lost.

EXTRA CREDIT: Several opportunities for extra credit will be announced in class or on Blackboard. It is your responsibility to send proof of attendance (signed flyer, selfie, etc) via email to jena.carey@sulross.edu within two days of the extra credit event. Some events will have a sign-in sheet- it is your responsibility to sign in and make sure to add our course to your name.

CLASSROOM EXPECTATIONS:

PUNCTUALITY: Class will begin promptly at 09:30 and will continue until 10:45. It is best to be early than to be on time. Remember that I will take up the sign-in sheet promptly at 09:30, any missing students will be highlighted for that day and will lose attendance points (whether they are tardy or absent). Tardy students will be allowed to sign in at the end of lecture and will receive half credit for attendance that day.

ELECTRONIC USE: No electronic use is tolerated in lecture time. This includes mobiles, cell phones, pagers, laptops, notepads, tablets, headphones/earpods/etc. Lecture time is important, not a time to be scrolling on a device. Please show respect in class.

LECTURE STRUCTURE: Lecture time is for reviewing material that you should have already read PRIOR to class. I will expect students to come to lecture time, having already read the material for the day- both the Student PowerPoint Slides, any textbook chapters, and having watched any assigned videos posted on Blackboard. Human A&P is broad with so much detail, lecture time simply is not enough time to go into the material. Anything from the online textbook, Student Slides, classroom discussion, and videos will be possible test material.

CONCEPT MAPS: Concept maps are additional study aids to help with the course material. We cover a lot of material in lecture, but there is still so much more covered in the online textbook that I will not have time to cover in the span of lecture time. Hence why it is so important to read BEFORE lecture time. Concept Maps are due no later than midnight on the day listed in the tentative schedule. Material covered in the unit for that concept is free to use to create whichever concept map works for you. Here are some examples, plus you are free to come ask me for guidance: [Concept Maps – Learning Center](#). I want to see correct information, in a logical fashion, with CREATIVITY! I want you to have fun with this assignment!

STUDENT LEARNING OUTCOMES (SLOS) The 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 ADDRESSED:

- 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 Attendance Policy. Roll will be taken during each class meeting. The SRSU catalog states “The instructor may, at their discretion, drop a student from a course when the student has a total of nine absences in lecture and three absences in lab. An absence is defined as non-attendance in fifty minutes of class. Exams must be taken on the scheduled exam date that will be announced at least a week prior unless other arrangements have been made with the instructor. Exams must be made up within a week from the scheduled date. RULE TO LIVE BY: DON’T MISS ANY CLASSES! If you absolutely must miss, make sure you let me know before.

Academic Integrity. Students in this class are expected to demonstrate scholarly behavior and academic honesty in the use of intellectual property. A scholar is expected to be punctual, prepared, and focused; meaningful and pertinent participation is appreciated. Examples of academic dishonesty include but are not limited to: Turning in work as original that was used in whole or part for another course and/or professor; turning in another person’s work as one’s own; copying from professional works or internet sites without citation; collaborating on a course assignment, examination, or quiz when collaboration is forbidden.

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 Schwartze 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.

Technical Support. SRSU 24/7 Blackboard Technical Support: Toll-Free: 888.837.6055. Email: blackboardsupport@sulross.edu

SRSU Library Services. The Bryan Wildenthal Memorial Library in Alpine 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 by phone (432-837-8123).

The Southwest Texas Junior College (SWTJC) Libraries at Uvalde, Del Rio, and Eagle Pass offer additional access to library spaces and resources. Del Rio, Eagle Pass, and Uvalde students may also use online resources available through SWTJC website, <https://library.swtjc.edu>. The SWTJC Libraries serve as pick-up locations for Interlibrary Loan (ILL) and Document Delivery from the Alpine campus.

Classroom Climate of Respect. Importantly, this class will foster free expression, critical investigation, and open discussion of ideas. This means that all of us must help create and sustain an atmosphere of tolerance, civility, and respect for the viewpoints of others. Similarly, we must all learn how to probe, oppose, and disagree without resorting to tactics of intimidation, harassment, or personal attack. No one is entitled to harass, belittle, or discriminate against another based on race, religion, ethnicity, age, gender, national origin, or sexual preference.

Diversity Statement. SRSU aims to create a learning environment for my students that supports a diversity of thoughts, perspectives, and experiences, and honors your identities (including race, gender, class, sexuality, religion, ability, socioeconomic class, age, nationality, etc.). We also understand that the crisis of COVID, economic disparity, health concerns, or even unexpected life events could impact the conditions necessary for you to succeed. Our commitment is to be there for you and help you meet the learning objectives of this course.