

BIO 2324 – Lecture

Human Physiology Fall 2021



Instructor: Ms. Hannah Jones

Email: hannah.jones@angelo.edu

Phone: (325) 486-6696 – my phone is currently under maintenance.

Office: 029C in CAV

***** DISCLAIMER: If forced ONLINE; this syllabus is likely to change.**

Office Hours:

Monday: 11-1, 2-3:30. Wednesday: 11-12:30. Friday: 11-12:00. Please email me if you intend on attending my office hours or if you would like to meet virtually. If you need to schedule a meeting outside of my normal office hours, please also send me an email.

Course Description

The study of the normal functions of the cells, tissues, organs, and systems of the human body.

Prerequisite and Co-requisite Courses

Students must register for Biology 2124 concurrently.

Prerequisite: Credit for Biology 2323/2123 or 2423

Student Learning Outcomes

Upon completion of this course, students will be able to:

- Locate, identify, and functionally describe the structures of the human body at all levels of organization (i.e. recall content) = CT1, EQS1, EQS2 – Assessment = In class activities, lecture exams, embedded test questions, lab exams, and lab activities/reports
- Develop understanding of the functional relationships of anatomical structures to one another (at all levels of organization) in health and communicate the acquired knowledge in written form. (i.e. comprehend the material). CS1 – Assessment = In class activities, lecture exams, embedded test questions, lab exams, and lab activities/reports
- Perform laboratory investigations in which numerical physical and chemical physiological data pertaining to tissue function are collected, classified, and analyzed in order to reach an informed conclusive interpretation about relevant clinical scenarios and “real-world” applications. EQS1 – Assessment = In class activities, lecture exams, embedded test questions, lab exams, and lab activities/reports work effectively with others to support and accomplish a shared goal = CS1, TW2 – Assessment = In class activities, lecture exams, embedded test questions, lab practical exams, and lab activities/reports
- Connect what she/he is learning to her/his own field (i.e. to make physiology relevant to your own academic endeavors). Assessment = In class activities, lecture exams, embedded test questions, lab exams, and lab activities/reports

In other words, you should be able to:

- Describe and explain the normal function of the cells, tissues, organs, and organ systems of the human body to help prepare you for a career in your chosen field (e.g. to gain content knowledge and comprehension).
- Connect what you have learned to your own academic field (e.g. to make physiology relevant to your own academic endeavors).
- Apply what you have learned to evaluate various case-studies, analyze controversial topics, and to solve problems relevant to physiology and to your field (e.g. to learn how to ask questions, work with others, and apply information you have learned in different situations).

For State, and Accreditation purposes this course will assess your ability to:

- CT1: Gather, analyze, evaluate, and synthesize information relevant to a question or issue
- CS1: Develop, interpret, and express ideas through effective written communication.
- EQS1: Manipulate and analyze numerical data and arrive at an informed conclusion.
- EQS2: Manipulate and analyze observable facts and arrive at an informed conclusion.
- TW2: Work effectively with others to support and accomplish a shared goal.

How to Pass the Class

Physiology requires a deeper conceptual understanding of the material rather than the simple memorization of facts you may have encountered in anatomy. To achieve these objectives and help maximize your learning, it is vital that you:

- 1) Attend lecture and lab regularly (i.e. every time each meet)
- 2) Arrive prepared (have completed any assigned interactive physiology homework modules or textbook readings for lecture)
- 3) Read ALL lab materials BEFORE attending lab each week.
- 4) Study the material every day
- 5) Practice self-assessment often (complete ALL MAP homework activities or Top Hat quizzes/assignments)

Required Texts and Materials

1. Human Physiology: An Integrated Approach, 8th Ed. Silverthorn (2019), Prentice-Hall.
2. No Laboratory Manual purchase is required this semester. But you **MUST BE ABLE** to access the ASU Blackboard Course page for the laboratory portion of this course **AND** check it frequently for all information, lab protocols, assignments, review guides, etc. Essentially **ANYTHING** you will need for lab, in the way of printed information, references, or instructions related to lab will be posted on/accessed through this page.

*** Note: You must complete the ASU.labsafety: Lab Safety and Chemical Hygiene Training course on Blackboard. You cannot attend lab unless you take and pass the required safety training with at least a 90%. It must be completed by the 2nd lab meeting.

3. Mastering A&P (MAP) online access- available using the access code provided with the purchase of the Silverthorn Textbook bundle. Via the “My A&P Study Area” of MAP you will heavily utilize the following: A. Interactive Physiology (IP) (hard copy also provided with the Human Physiology bundle) B. PhysioEx: Laboratory Simulations (accessed through Mastering A & P)

Course ID:

Course Name: this information will be provided the first day of class.

*** Note that MAP is also available for separate online purchase, if you are using a used copy of the textbook. (See your instructor before purchasing, if you have any questions)

4. TopHat Response System – Mobile/Electronic device driven platform that we will use in lecture for attendance, in lecture quizzes, and limited out of lecture homework activities. More information to follow via email and in class (or go to <http://tophat.com>).

Top Hat Join Code is: this information will be provided the first day of class.

5. You will also need an inexpensive calculator that does basic math functions. Cell phones will NOT BE ALLOWED to be used as calculators on quizzes or exams. It's best not to count on having one available from the instructors nor borrowing one from someone else in your class.
6. INTERNET ACCESS IS REQUIRED for this course. Lecture and lab materials will be distributed routinely via the internet on Blackboard. In addition to many lecture and lab resources, there are many study tips and strategies that you may find useful in your studies. You may access the web free at any computer lab on campus and from home. For more information call the Informational technology department at 942-2911.

– You are required to have a Blackboard account and an official ASU email address. I will use these to make announcements, distribute materials (lecture notes, outlines, handouts, and exam checklists) and post grades. You can access blackboard 24/7 at <http://blackboard.angelo.edu>. Please visit the site regularly. If you have not used Blackboard before, you may wish to review the tutorial by selecting “the help” icon or call the ASU Technology Service Center at 942-2911 (MCS-111) for assistance.

Communication

Email: Email is the easiest and fastest way to contact me. I will respond ASAP but please put “Physiology Lecture 2324” in the subject line or the body of the email so I know which course you are referring to. Please also keep the email professional.

Phone: My office number is 325-486-6696 and you may call and leave a message but this is the least-reliable method of contact for me. I forget to check my voicemail and may not realize you've called.

Office hours: If you are on campus and need assistance, please stop by my office. Remember, the listed office hours are when I am guaranteed to be available to you either in my office or via email or Blackboard Collaborate. This schedule is posted on here, outside my office door, and on Blackboard.

Grading

Evaluation and Grading Scheme

Course grades will be determined as indicated in the table below.

Assessment	Points Available
Laboratory Exams	450 (3 @ 150 each)
Lecture Exams	500 (4 @ 125 each)
Lecture based MAP activities, in class activities, TopHat, quizzes, etc.	150
TOTAL	1100

Grading System

Course grades will be dependent upon completing course requirements and meeting the student learning outcomes.

The following grading scale is in use for this course:

- A = 900 or more points
- B = 800-899 points
- C = 700-799 points
- D = 600-699 points
- F = 0-599 points (Grades are not rounded up)

Assignment and Activity Descriptions

Lecture Exam Format:

All exams will consist of multiple-choice questions. Approximately 60% of questions will be factual recall, and the remaining 40% will include higher order, critical thinking questions. Questions come from lecture notes, powerpoint presentations, MAP questions, TopHat quizzes, and the level 1 and 2 EOC questions following each chapter.

Lecture Exam Days:

Lecture exams will all be in person. YOU NEED A CALCULATOR. You will have a limited amount of time to complete the exam and will not receive any credit for questions left blank.

Lecture Make-Up Exam:

– If you miss a lecture exam for any legitimate reason you will be required to take a comprehensive make-up exam or a grade of zero (0) will be entered for the exam missed. The grade earned on the comprehensive exam will serve as the replacement for the missed exam. There will be one, and only one, comprehensive exam given during the final exam period. This exam will cover any/all material presented and assigned from the beginning of the semester, and thus includes any material covered on the first three major exams. The format will be 85-100 multiple choice questions.

Tentative Lecture Exam Dates:

Lecture Exam 1 – September 16th (Thursday)

Lecture Exam 2 – October 14th (Thursday)

Lecture Exam 3 – November 11th (Thursday)

Lecture Exam 4 – December 9th (Thursday)

Note: All students are required to take Exam 4. If you missed one exam (1-3) then you must take the final and the comprehensive make-up final in order to replace the missed exam. This is only if approved by the instructor.

Academic Honesty/Plagiarism/Cheating: No form of academic dishonesty will be tolerated.

Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding and following the ASU policies on academic dishonesty contained in both print and web versions of the Student Handbook. Students in this class are expected to submit work in accordance with the guidelines of academic honesty provided by the handbook and/or their instructor. The penalty for ANY act of academic dishonesty is a grade of ZERO on the assignment and disciplinary action as warranted by the university guidelines that includes dismissal from ASU.

Angelo State University – Honor Code: ASU expects its students to maintain complete honesty and integrity in all of their academic pursuits. Students are responsible for understanding and following the Academic Honor Code as outlined on the university's web site and in the Student Handbook.

Withdrawal from the Course: Contrary to what many students believe, you are not automatically withdrawn from a course if you cease to attend lectures or labs. If you wish to discontinue participation human physiology you must formally withdraw by, first seeing your lecture instructor and then completing the online Course Drop Form. Dropping the lecture automatically drops the lab, so no separate Course Drop Form is necessary. Failure to do this can result in a grade of F appearing on your academic transcript. Again, dropping the lecture automatically drops the lab. The last day to withdraw from classes or the University for the Fall 2021 semester is November 22nd. Please visit my office before attempting to drop the course.

Course Schedule

Topic(s)	Textbook Reference
Course Policies, Tips, and Intro to Physiology	Chapter 1
Tissues/Organ Systems, Characteristics of Life and Homeostasis	Chapter 3, 6
Organization and Biochemistry, Cell Structure and Function	Chapter 2, 3
Membrane Transport Processes	Chapter 5
Cell Metabolism & Metabolic Principles	Chapter 4, 22
Digestive Physiology	Chapter 21
Nervous Tissue & Organization Overview	Chapter 8
Membrane Potentials and Impulse Communication, Nerve Impulse Conduction	Chapter 5, 8
Central Nervous System	Chapter 9
Sensory Physiology (General and Special)	Chapter 10
Peripheral Nervous System (Somatic, Enteric, Autonomic)	Chapter 11
Muscle Physiology and Control of Body Movement	Chapter 12, 13
Cardiovascular Physiology	Chapter 14, 15, 16
Respiratory Physiology	Chapter 17, 18
Kidney Physiology	Chapter 19, 20
Reproductive Physiology	Chapter 26
Endocrine and Immune System Overview	Chapter 7, 23, 24
<p>***Topics appear in the approximate order in which they will be covered but the schedule is subject to change if deemed necessary by the instructor.</p>	

General Policies Related to This Course

All students are required to follow the policies and procedures presented in these documents:

- [Angelo State University Student Handbook](#)¹
- [Angelo State University Catalog](#)²

Required Use of Masks/Facial Coverings by Students in Class at ASU

As a member of the Texas Tech University System, Angelo State University has adopted the mandatory [Facial Covering Policy](#) to ensure a safe and healthy classroom experience. Current research on the COVID-19 virus suggests there is a significant reduction in the potential for transmission of the virus from person to person by wearing a mask/facial covering that covers the nose and mouth areas. Therefore, in compliance with the university policy students in this class are required to wear a mask/facial covering before, during, and after class. Faculty members may also ask you to display your daily screening badge as a prerequisite to enter the classroom. You are also asked to maintain safe distancing practices to the best of your ability. For the safety of everyone, any student not appropriately wearing a mask/facial covering will be asked to leave the classroom immediately. The student will be responsible to make up any missed class content or work. Continued non-compliance with the Texas Tech University System Policy may result in disciplinary action through the Office of Student Conduct.

Academic Integrity

Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the university's [Statement of Academic Integrity](#).³

Accommodations for Students with Disabilities

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student's responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the [Student Disability Services website](#).⁴ The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dallas Swafford
Director of Student Disability Services
Office of Student Affairs
325-942-2047
dallas.swafford@angelo.edu
Houston Harte University Center, Room 112

Incomplete Grade Policy

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 [Grading Procedures](#)⁵ for more information.

Plagiarism

Plagiarism is a serious topic covered in ASU's [Academic Integrity policy](#)⁶ in the Student Handbook. Plagiarism is the action or practice of taking someone else's work, idea, etc., and passing it off as one's own. Plagiarism is literary theft.

In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list.

Papers are subject to be evaluated for originality. Resources to help you understand this policy better are available at the [ASU Writing Center](#).⁷

Student Absence for Observance of Religious Holy Days

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for [Observance of Religious Holy Day](#)⁸ for more information.

Title IX at Angelo State University

The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance.

Students are encouraged to report any incidents of sexual misconduct directly to ASU's Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator at:

Michelle Boone, J.D.
Director of Title IX Compliance/Title IX Coordinator
Mayer Administration Building, Room 210
325-942-2022
michelle.boone@angelo.edu

You may also file a report online 24/7 at www.angelo.edu/incident-form.

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345. For more information about Title IX in general you may visit www.angelo.edu/title-ix.

¹ <https://www.angelo.edu/student-handbook/>

² <https://www.angelo.edu/catalogs/>

³ <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

⁴ <https://www.angelo.edu/services/disability-services/>

⁵ <https://www.angelo.edu/content/files/14197-op-1011-grading-procedures>

⁶ <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

⁷ https://www.angelo.edu/dept/writing_center/academic_honesty.php

⁸ <https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of>