

COURSE SYLLABUS
Biology 2401
Human Anatomy and Physiology I
CARTER- FALL 2025

Instructor:

Sandra Carter DVM
Office S 146 LVL/ PC 108 PLV
806-716-2495
e-mail: scarter@southplainscollege.edu

Fall 2025 A&P 1 Classes:

Biol 2401	LVL	Sec 002 MW 11 am- 1:30 pm S143/S151
	LVL	Sec 006 MW 2:30 pm- 5 pm S143/S151
	PLV	Sec 601 TTH 2:30 pm- 5 pm PC 128

Office Hours: Levelland S146 Monday/ Wednesday 1:30 pm-2:30 pm; 5-5:30 pm
 Friday 10:30 am- 12:30 pm
 Plainview PC 108 Tuesday/ Thursday 1:30 -2:30 pm; 5-5:30 pm
 Office hours also available by appointment.

General Course Syllabus:

Available on Blackboard

Purpose:

To provide a general understanding of human anatomy and physiology for those students in the allied health fields

To meet requirements for an Associate in Arts degree or Associate in Science degree

To meet the requirements of transfer students working toward a Bachelor of Arts or Bachelor of Science degree

Human Anatomy and Physiology 2401 is a **sophomore-level class**. **In order to enroll in Biol 2401, students must be TSI compliant in Reading, Writing and Math.** One semester of college chemistry is **strongly recommended as a prerequisite**, as is a general biology or zoology class.

NOTE: Chemistry 1406 is **required** as a prerequisite for admission to the Covenant School of Nursing and is required for a BSN, so pre-nursing students planning to apply to Covenant School of Nursing should take Chem 1406 prior to enrollment in Biol 2401. A less advisable option is to take Chem 1406 concurrently with Biol 2401. Students pursuing nursing programs or other health career programs such as Rad Tech, HIS, Surg Tech, etc. where Chem 1406 is not required as a prerequisite course are strongly urged to take Biol 1308, Chem 1301 or Chem 1406 prior to enrollment in Biol 2401. A strong background in chemistry is essential for understanding anatomy and physiology and will increase your chance of succeeding in the course.

Medicine is very detail-oriented! Therefore, the memorization of very detailed information, as well as comprehension of that information is required to establish a basic knowledge of anatomy and physiology. **Due to the volume of information covered and the rapid pace of this course, you must be prepared to spend lots of time outside of class studying the text, lecture notes and the lab materials. You should be prepared to study in the lab outside of your regular class period (especially when we are learning bones and bone markings and skeletal muscles), and be aware that many resources (the Science Learning Center (LVL), A&P Labs on the Levelland campus and the Plainview Center, etc.) have limited hours of operation during the semester.**

Because of the volume of material you need to learn and limited lecture and lab time, you **must read and study the information presented in the textbook**. You will also be expected to watch numerous pre-lab videos to prepare for various lab discussions during the semester. I expect you to learn the information discussed in the text and videos even though we may not cover it in class. I have prepared lecture notes (outlines of the Power Point presentations) to assist you in following along in lecture and when studying the textbook.

Required Materials for Biol 2401:

1. **Textbook**- you will need a good anatomy and physiology textbook for the course, for Biol 2402 and as a reference text provided you are destined for a career in medicine. There are numerous options for acquiring a text. Options include:
 - a. **Inclusive Access**-
 1. Hoehn, Katja, Haynes, Lawrence W. and Abbott, Matthew A. Marieb Human Anatomy and Physiology, 12th Edition e-text and access to Mastering A&P. 18-week subscription.
 - b. If you opt out of Inclusive Access-
 1. Hoehn, Katja, Haynes, Lawrence W. and Abbott, Matthew A. Marieb Human Anatomy and Physiology, 12th Edition. Available at www.pearson.com. Also available online (Amazon, Chegg, etc.) USED or NEW, hard cover or loose-leaf, for purchase or rent.
 2. Marieb, Elaine N. and Hoehn, Katja, Human Anatomy and Physiology, 11th Edition. Available at www.pearson.com. Also available online (Amazon, Chegg, etc.) USED, hard cover or loose-leaf, for purchase or rent.
2. **Access to Mastering A&P**

The Mastering A&P website includes a host of resources that you can use to study and learn the material presented in the course. Depending on the chapter and topic, there are practice tests, quizzes, labeling exercises, animations, audio tutor sessions, lab materials and videos that can be very helpful in studying anatomy and physiology. Check out the various study materials available on Mastering A&P during the first week of the semester to determine which materials will prove most helpful to you, and utilize those study materials consistently during the semester. Options include:

 - a. **Inclusive Access**- Mastering A&P. 18-week subscription.
 - b. If you opt out of Inclusive Access- purchase access at www.pearson.com.

3. **Photographic Lab Atlas**

Options include:

 - a. A Brief Atlas of the Human Body, 2nd Ed. Marieb, Hutchinson, Mallat. ISBN: 978-0321662613
-new or used copy available online- check Amazon, eBay, etc.
 - b. Van de Graaff's Photographic Atlas for the Anatomy and Physiology Laboratory, 8e 8th Edition. Morton, David A. and Crawley, John L. 2016. ISBN-13: 978-1617312779 or ISBN-10: 1617312770 (NEW, USED OR RENTAL) Available online at Amazon, B&N, etc.
 - c. Van de Graaff's Photographic Atlas for the Anatomy and Physiology Laboratory, 7e 7th Edition. Morton, David A. and Crawley, John L. 2011. ISBN-13: 978-0895828750 or ISBN-10: 0895828758 (USED) Available online at Amazon, B&N, etc.
4. **Lecture notes, lecture handouts and lab handouts for Blocks 1-5**- available on Blackboard

Inclusive Access Syllabus Statement:

This course is part of your TexBook program, which means you don't need to purchase a textbook or access code for this course. TexBook is the required content (either an eBook or online Courseware) for your course, and is provided for you from Day 1 of class.

- a. Cost of TexBook: this required content is provided as part of a Program called 'Inclusive Access', which means that content is provided for you at the lowest price available from the publisher. The cost for this is included in your tuition.
- b. How to access your digital content: you can access your material via the link inside your Blackboard Course. If you have issues with this, please contact your professor, the Bookstore Manager or Pearson support.
- c. Opting out: you can Opt-Out of the TexBook Program, up until the Opt-Out deadline, via the banner displayed when you open Blackboard. Remember that Opt-Out deadlines vary by term, and if you choose to Opt-Out you will lose access to this low price option, and will need to purchase the content through a different method. If you opt-Out, the fee will be refunded to your account.

Useful contacts:

1. Bookstore Text Coordinator: Trish Wells - patricia.wells@bibliu.com

Attendance Policy:

SPC General Attendance Policy:

Students are expected to attend all classes in order to be successful in a course. The student may be administratively withdrawn from the course when absences become excessive as defined in the course syllabus.

When an unavoidable reason for class absence arises, such as illness, an official trip authorized by the college or an official activity, the instructor may permit the student to make up work missed. It is the student's responsibility to complete work missed within a reasonable period of time as determined by the instructor. Students are officially enrolled in all courses for which they pay tuition and fees at the time of registration. Should a student, for any reason, delay in reporting to a class after official enrollment, absences will be attributed to the student from the first class meeting.

Students that enroll in a course but have "Never Attended" by the official census date, as reported by the faculty member, will be administratively dropped by the Office of Admissions and Records. A student who does not meet the attendance requirements of a class as stated in the course syllabus and does not officially withdraw from that course by the official census date of the semester, may be administratively withdrawn from that course and receive a grade of "X" or "F" as determined by the instructor. Instructors are responsible for clearly stating their administrative drop policy in the course syllabus, and it is the student's responsibility to be aware of that policy.

It is the student's responsibility to verify administrative drops for excessive absences through MySPC using his or her student online account. If it is determined that a student is awarded financial aid for a class or classes in which the student never attended or participated, the financial aid award will be adjusted in accordance with the classes in which the student did attend/participate and the student will owe any balance resulting from the adjustment.

Biol 2401 Attendance Policy:

Attendance at all lectures and labs is **mandatory**. In order for you to master the material presented, it is essential that you attend every class. I routinely take attendance at the start of each class meeting. **If you are not in attendance when roll is taken but come in later, it is imperative that you notify me that you are in attendance, as my records will indicate that you are absent.** A student may be administratively dropped after missing a total of **4 absences** during the semester. I will closely monitor your attendance and if you accrue 4 absences during the semester, I may drop you from the course for non-attendance. It is your responsibility to discuss with me any situations that preclude you from attending class and cause you to accrue numerous absences, including COVID illness or quarantine, to avoid being dropped from the course for non-attendance.

If a student is administratively (i.e. instructor initiated) withdrawn from the class for non-attendance, the grade on transcript will be an **"X"**.

NOTE: If you cannot attend class in person because of COVID illness or quarantine, a funeral, official school function, etc. you are still required to stay up-to-date with course content. I will be posting lecture and lab videos over the material we cover each day in class to Blackboard. You will need to watch the lecture and lab videos on your own to obtain and learn course content.

The last day to drop a class with a "W" is Thursday, December 4, 2025. If you decide to stop attending class, it is your responsibility to take the proper action to have this course officially dropped from your schedule immediately, to avoid being administratively dropped (by me for non-attendance) with an "X".

If you are receiving financial aid, it is your responsibility to visit with your financial aid advisor to determine how dropping this course will affect your present and future financial aid eligibility.

Arrive to class on time. If you have a situation that causes you to be habitually late to this class, you need to discuss the situation with the instructor, as we may be able to make other arrangements. If you are habitually late, you may be administratively dropped from the course after 8 tardies. Come to class prepared by reading lecture and lab assignments and studying previous notes.

For additional information regarding: the semester calendar, registration schedule, and drop/withdrawal policy and procedures, class attendance, drops and withdrawals, academic probation and suspension, academic integrity, student conduct, student records, etc. please refer to the SPC General Catalog 2025-26, which is available online at www.southplainscollege.edu.

Grading Policy:

There will be **six exams** administered this semester that will test students' knowledge of the five blocks of course content. Five of the exams (Exams 1, 3, 4, 5 and 6) will cover lecture and lab material while the bone practical (Exam 2) will cover lab material only. Exams 1, 4, 5 and 6 will be worth 100 points each while Exams 2 and 3 will be worth 50 points each. The six exams will be administered face-to-face during class time.

There will be **12 weekly quizzes** administered this semester via Blackboard, each worth 10 points. At the end of the semester, the two lowest quiz score(s) will be dropped. The weekly quizzes are designed to help you test your knowledge of some of the material covered the previous week, and they will also help you practice answering questions about the material, practice using the information you have learned to solve problems and enable you to get a "feel" for the wording of questions on the exams. The

quizzes will cover the anatomy and physiology information presented after the previous quiz or exam. The weekly quizzes will be administered online using Blackboard on the date designated by the class schedule and will be available for 24 hours.

Therefore, your course grade will be determined by your cumulative point total from the 6 exams (maximum total points 500), and 10 weekly quizzes, (remember there are 12 weekly quizzes but the two lowest quiz scores will be dropped) each worth 10 points (maximum total points 100). Thus, the maximum number of points that can be earned in the course is **600 points**.

Course grade	Course Average	Total number of points (accounts for rounding)
A	>90%	537-600 pts
B	80-89.5	477-536
C	70-79.5	417-476
D	60-69.5	357-416
F	<59.5	<357

You will be expected to bring a #2 pencil and a good eraser to all exams. Scantrons will be provided with the exams. It is your responsibility to keep track of grades earned in the course. You will be able to view your grades on Blackboard by clicking on the link to "Gradebook".

Missed Exam Policy:

All exams should be taken on the scheduled day and class time. Make-up exams will be given only in certain circumstances. If you miss an exam due to extenuating circumstances such as a serious illness like COVID, quarantining due to COVID illness or exposure, death of an immediate family member, or official school business you may be required to provide **written** proof and the appropriate documentation regarding the absence. The student is responsible for notifying the instructor **within 24 hours** of the date of the scheduled exam about such emergencies. **The make-up exam must be taken within 7 days after the date the student returns to class. It will be your responsibility to make arrangements to be present for the make-up exam. All decisions regarding make-up exams are at the discretion of the instructor.** A grade of zero for the missed exam will be recorded if these conditions are not met. Any other missed exams will receive a grade of zero. Make-up exams are often different from the regularly scheduled exams and tend to be more difficult.

Lab Safety:

No food or drinks are allowed in the laboratories at any time. You may not remove items from the lab to take home to study (i.e. bones, models, etc).

Study Materials:

In order to assist you in studying Anatomy and Physiology 1 and 2, the Student Learning Center in the Science building on the Levelland campus has models, bones and lab materials available for check-out for use in the center. Students can also reserve study rooms in the Student Learning Center.

The TTU main library has bones and models on reserve for SPC students to use. You will need to go to the reserve desk and use your SPC ID card to check out models for a 2-hour time period for study IN the library only. Hours are available online.

There are study materials such as bones and models that can be used for study at the Lubbock Downtown Center B032, Monday through Thursday 8 am- 5 pm with the exception of those times when classes are being conducted in the classroom (TTH 1-3:30 pm).

Tutoring:

Tutoring is FREE for all currently enrolled students. Make an appointment or drop-in for help at any SPC location or online. Visit the link below to learn more about how to book an appointment, view the tutoring schedule, get to know the tutors, and view tutoring locations.

<https://www.southplainscollege.edu/exploreprograms/artsandsciences/teacheredtutoring.php>

Student Code of Conduct Policy:

Any successful learning experience requires mutual respect on the part of the student and the instructor. Neither instructor nor student should be subject to others' behavior that is rude, disruptive, intimidating, aggressive, or demeaning. Student conduct that disrupts the learning process or is deemed disrespectful or threatening shall not be tolerated and may lead to disciplinary action and/or removal from class.

Academic Dishonesty:

"Cheating" will NOT be tolerated. Students are expected to do their own work on all projects, assignments, examinations, and papers. Failure to comply with this policy will result in an F for the assignment and can result in an F for the course if circumstances warrant.

Cheating violations include, but are not limited to, the following:

1. Obtaining an examination by stealing or collusion;
2. Discovering the content of an examination before it is given;
3. Using an unauthorized source of information (notes, textbook, text messaging, internet, apps) during an examination, quiz, or homework assignment;
4. Entering an office or building to obtain unfair advantage;
5. Taking an examination for another;
6. Altering grade records;
7. Copying another's work during an examination or on a homework assignment;
8. Rewriting another student's work in Peer Editing so that the writing is no longer the original student's;
9. Taking pictures of a test, test answers, or someone else's paper.

Cell Phone Policy:

Please make sure that your cell phone is off or silenced and **does not ring in class. Texting is not allowed during class or lab. All cell phones must be put away and cannot be used when taking an exam or during the review of a graded exam.**

Intellectual Exchange Statement:

In South Plains College courses, the instructor will establish and support an environment that values and nurtures individual and group difference and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

South Plains College policies concerning Disabilities, Non-discrimination, Title IX Pregnancy and Parenting Accommodations, CARE (Campus Assessment, Response, and Evaluation), Intellectual Exchange, Campus Concealed Carry, COVID-19, and AI (Artificial Intelligence) can be found here: [Syllabus Statements](#).

Note: The instructor reserves the right to modify the course syllabus and policies at any point during the semester

Biology 2401 Tentative Schedule Fall 2025

Week	M/W (002,006)	T/TH (501)	Lecture	Text	Lab	Text
1	Aug 25	Aug 26	Intro to A&P I	Ch. 1		
	Aug 27	Aug 28	Intro to A&P II	Ch. 1		
2	Sept 1		Labor Day Holiday			
			Quiz 1- 9/1/25 12:01 am- 11:59 pm			
		Sept 2	Intro to A&P III	Ch. 1	Anatomical Nomenclature	Ch. 1
	Sept 3		Intro to A&P III	Ch. 1		
		Sept 4	Cell- Plasma Membrane I	Ch. 3		
3	Sept 8		Cell- Plasma Membrane I	Ch. 3		
			Quiz 2- 9/8/25 12:01 am- 11:59 pm			
		Sept 9	Cell- Plasma Membrane II	Ch. 3		
	Sept 10		Cell- Plasma Membrane II	Ch. 3		
		Sept 11	Histology-Introduction	Ch. 4	Cell- Cytoplasm & Nucleus	Ch. 3
4	Sept 15		Histology-Introduction	Ch. 4	Cell- Cytoplasm & Nucleus	Ch. 3
			Quiz 3- 9/15/25 12:01 am- 11:59 pm			
		Sept 16	Histology- Epithelium	Ch. 4	Lab- Histology I	Ch. 4
	Sept 17		Histology- Epithelium	Ch. 4	Lab- Histology I	Ch. 4
		Sept 18	Histology- Conn. Tissues	Ch. 4	Lab- Histology II	Ch. 4
5	Sept 22		Histology- Conn. Tissues	Ch. 4	Lab- Histology II	Ch. 4
			Quiz 4- 9/22/25 12:01 am- 11:59 pm			
		Sept 23	Exam 1	Ch. 1, 3, 4	Lab- Skull Study	
	Sept 24		Exam 1	Ch. 1, 3, 4	Lab- Skull Study	
		Sept 25	Skeletal Tissues I	Ch. 6	Lab- Skull Cranial Bones	Ch. 7
6	Sept 29		Skeletal Tissues I	Ch. 6	Lab- Skull Cranial Bones	Ch. 7
			Quiz 5- 9/29/25 12:01 am- 11:59 pm			
		Sept 30	Skeletal Tissues II	Ch. 6	Lab- Skull Facial Bones	Ch. 7
	Oct 1		Skeletal Tissues II	Ch. 6	Lab- Skull Facial Bones	Ch. 7
		Oct 2	Skeletal Tissues III	Ch. 6	Lab- Spine and Bony Thorax	Ch. 7
7	Oct 6		Skeletal Tissues III	Ch. 6	Lab- Spine and Bony Thorax	Ch. 7
			Quiz 6- 10/6/25 12:01 am- 11:59 pm			
		Oct 7	Skeletal Tissues IV	Ch. 6	Lab- The App. Skel. Upper Limb	Ch. 7

	Oct 8		Skeletal Tissues IV	Ch. 6	Lab- The App. Skel. Upper Limb Bone Study	Ch. 7
		Oct 9				
8	Oct 13	Oct 14	Joints I	Ch. 8	Lab- The App. Skel. Lower Limb	Ch. 7
			Quiz 7- 10/13/25 12:01 am- 11:59 pm			
	Oct 15	Oct 16	Joints II	Ch. 8	Lab- Bones/Joints study	Ch. 7, 8
9	Oct 20	Oct 21	Bone Practical-Exam 2	Ch. 7	Nervous System I	Ch. 11
			Quiz 8- 10/20/25 12:01 am- 11:59 pm			
	Oct 22	Oct 23	Exam 3/ Nervous System II	Ch. 6,7,8/11		
10	Oct 27	Oct 28	Nervous System III	Ch. 11		
			Quiz 9- 10/27/25 12:01 am- 11:59 pm			
	Oct 29	Oct 30	Central Nervous System I	Ch. 12	Lab- Neuron Anatomy	Ch. 11
11	Nov 3	Nov 4	Central Nervous System II	Ch. 12	Lab- The CNS I	Ch. 12
			Quiz 10- 11/3/25 12:01 am- 11:59 pm			
	Nov 5	Nov 6	Central Nervous System III	Ch. 12		
12	Nov 10	Nov 11	Exam 4/ CNS IV	Ch. 11,12/12		
	Nov 12	Nov 13	Peripheral Nervous System I	Ch. 13	Lab- The CNS II	Ch. 12
13	Nov 17	Nov 18	Autonomic Nervous System	Ch. 14	Lab- PNS/ANS	
			Quiz 11- 11/17/25 12:01 am- 11:59 pm			
	Nov 19	Nov 20	Muscle Tissue Intro	Ch. 9	Lab- Muscle Fiber Anatomy	Ch. 9
14	Nov 24	Nov 25	Exam 5 / Muscle Tissue I	Ch. 12,13,14/9		
	Nov 26	Nov 27	Thanksgiving Holiday			
15	Dec 1	Dec 2	Muscle Tissue II	Ch. 9		
			Quiz 12- 12/1/25 12:01 am- 11:59 pm			
	Dec 3	Dec 4			Lab- Muscular System	Ch. 10
16			Final Exam- Exam 6- Muscle Tissue	Ch. 9, 10		

Sec 002- Monday Dec 8 10:15 am-12:15 pm

Sec 006- Monday Dec 8 1-3 pm

Sec 501- Tuesday Dec 9 1-3 pm

NOTE: This schedule may be changed as deemed necessary by the instructor.