

Anatomy & Physiology 2

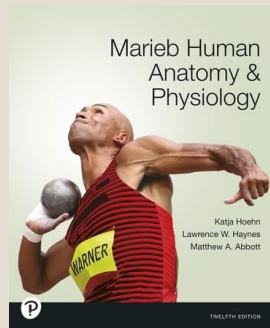
Spring 2025

Instructor: Amanda Rakhshandeh, PhD

Required Materials:

Textbook

- E-text included in tuition fees
- Available on first day of class
- You can opt out. See Blackboard for more info.



Note-taking & Study Guide

- Download & print for free OR
- Purchase pre-printed from SPC bookstore (~\$40)

BIOLOGY 2402: ANATOMY & PHYSIOLOGY 2
SOUTH PLAINS COLLEGE

NOTE-TAKING & STUDY GUIDES

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External Webcam

- Check out from SPC library OR
- Purchase on your own
- Typical cost - \$20 - \$30



Scan for SPC library
contact info



Where & when do we meet?

Tuesdays &
Thursdays

1 to 3:30 PM

Science Building
Room 182

Plan to meet every day for the entire time.

How do I get ahold of you?

Drop by:

M/W: 12:30 – 2:30

T/Th: 12:30 – 1

F: 10 – 1

Science Building
Room 135

Or email for an appointment at another time

Call me:

806.716.2317

Email me:

arakshandeh@southplainscollege.edu

Expect a reply sometime the next business day.

Important dates:

- 1/13: First day of class
- 1/20: no class (MLK day)
- 1/28: Last day to drop without it on your transcript
- 3/17 – 3/21: no class (Spring Break)
- 4/18: no class (Easter)
- 4/24: Last day to drop with a "W"

What will we learn in this class?

Topics Covered

Blood Transport

Heart (Ch. 18)

Blood Vessels (Ch. 19)

Connecting the Body through Fluids

Blood (Ch. 17)

Lymphatics & Immunity (Chs. 20 & 21)

Signaling Principles & Examples

Endocrine System (Ch. 16)

Reproductive System (Ch. 27)

Energy Acquisition

Digestive System (Ch. 23)

Nutrition (Ch. 24)

Maintaining Homeostasis

Respiratory System (Ch. 22)

Urinary System (Ch. 25)

Balance (Ch. 26)

Questions we'll ask in every section

How does the shape of a body part cause it to function in a specific way?

What new functions can be seen once different anatomical structures begin working together?

How do different parts of the body sense their environment? How do they then respond?

How do different parts of the body obtain and use energy?

How do biologists describe the body to one another?

How are different biological structures & functions similar? How are they different?

Overall goal: Prepare you for the next step in your Allied Health career

Life can impact learning, but SPC can help:

The SPC Health & Wellness Center has several resources that can help you, should unexpected emergencies arise, including:

- Food assistance
- Help paying bills
- Medical care
- Mental health counseling and referrals
- Other free or reduced cost programs

Visit this link to learn more:

<https://www.southplainscollege.edu/health/studenthealth.php>



Car break down?

Don't worry, there's a shuttle service between Lubbock & Levelland. Visit this link to learn more:

<https://spartanpublictransit.com/spc-express.php>



What are the assignments for this class?

Lecture Exams

- Five total exams testing your understanding of physiology and your “mental maps” of body structures.
- Heart/Blood vessels & Respiratory/Urinary/Balance exams divided: 1) memorization and 2) critical thinking
- One make-up exam allowed.
- No dropped grades, but an optional comprehensive final lecture exam can replace lowest grade.

Lab Exams

- Six total exams testing your ability to identify anatomical structures.
- Fill-in-the-blank or oral, no word bank, spelling counts for five exams. Cat practical is an oral, group exam.
- One make-up exam allowed.
- No dropped grades, but an optional comprehensive final lab exam can replace lowest grade.

Before-Class Videos

- Fill out note-taking guide as you watch videos.
- Answer graded questions in videos (two chances at questions).
- List ideas you don't understand in open-ended question at the end of each video.
- No make ups.
- Lowest five video grades dropped.

Orientation Assignments

- Start-here assignments to help you understand the course structure and expectations.
- Chapter 1 quizzes & tutorials to help you see if these learning tools help you. Quizzes & tutorials for the rest of the semester are optional.
- No make ups.
- Lowest one grade dropped.

Attendance

- For full credit: show up on time, fully participate while in class, stay to the end.
- Lowest one attendance grade dropped.

How much are assignments worth?

- Lecture Exams = 65%
- Lab Exams = 25%
- Videos = 6%
- Orientation = 2%
- Attendance = 2%

Do you offer extra credit?

No, although easy assignments are due in the first days of the course and can be found in the Start Here folder. They give your grade a cushion, so don't miss them!

How do you assign grades?

- 89.5 and up = A
- 79.5 – 89.49 = B
- 69.5 – 79.49 = C
- 59.5 – 69.49 = D
- 59.49 and down = F

What if I'm on the borderline?

Since I drop grades, my cut-off is strict. An 89.49 would earn a “B”. An 89.50 would earn an “A”.

Do you curve grades?

No, although I do review all exam keys for accuracy and hand-grade all fill-in-the-blank questions.

How do I succeed in this class?

Spend enough time studying outside of class.

- 16-week classes = 12 hours a week
- 8-week classes = 20 hours a week
- 5-week classes = 30 hours a week

Watch videos & fill out the note-taking guide **before class.**

- If you don't watch videos before class, you've missed lecture. I don't re-lecture in class.
- Actively take notes while watching videos. Pause often. Details matter, so write them down. Write down questions.

Ask questions.

- Enter questions in the open-ended response at the end of each video. The more specific you are, the better I can help.
- Ask questions in class to make sure you fully understand everything, and your note-taking guide is fully filled out.
- Meet with me during my office hours for extra help.

Use the learning tools I provide.

- I post learning aids for every section in the weekly folders on Blackboard.
- The Course Resources section has many learning aids, too. Try them out and see which ones work best for you.

Make your own study aids & quiz your memory repeatedly.

- Make your own study aids, such as outlines, drawings, diagrams or mind maps as you review your notes.
- Quiz your memory over and over again using any of the following: blank versions of the note-taking guide, practical exam flash cards, extra online tutorials, lecture exam reviews. Only use your notes to briefly jog your memory when you forget something. Then, close them and continue testing your memory.
- Note: Reading text, notes, review guides, or images over and over again is the **LEAST EFFECTIVE** way to study for this class. Students who do not test their memories of course concepts when studying typically earn around a 40 to 50% on major examinations.

Which learning tools are used most often?

YouTube channel: Re-watch course videos any time.

Note-taking guide: Structure your notes & know when you miss something important.

Lecture exam reviews: Lists topics for the exams. All topics match some part of the Note-taking guide.

Practical exam "terms to know"

Mock quizzes: Get a sneak peek into the exam and adjust your studying habits early.

Online tutorials: Check your note-taking guide, test what you know & quiz your memory.

Instructor-made flash cards: Contains all structures that could be seen on the practical exams.

Hands-on Models – Check them out for on-campus use at the SPC Science Center, the Texas Tech main library or the Plainview Center.

Tutoring – Free SPC tutors are available to all currently enrolled students.



Other tools available in Course Resources on Blackboard.

What are your other policies?

Attendance

- I may drop you after you miss two days.
- If I drop you, you will receive a grade of "X", rather than "W".
- If you decide to stop attending class, it is your responsibility to drop this course and verify that you are no longer enrolled.

Major exam protocols

- Most are given online using HonorLock and an external webcam.
- You must show official picture identification.
- Blackboard lists exam conduct requirements, as well as consequences for violations.
- Consequences for violating exam protocol will be suspended on the prior knowledge quiz, so that I can help you correct honest mistakes.
- *Immediately* visit HonorLock support for technical difficulties. If you email me, regularly check your email, in case of a quick reply.

Cyber or in-person bullying

- Disorderly conduct, verbally abusive or intimidating emails, or subjecting another person to inappropriate, abusive, threatening, or demeaning actions will be subject to disciplinary action, including being required to withdraw from the course.

Cheating

- Cheating will not be tolerated and is subject to disciplinary action.
- A list of what may be considered cheating is found on Blackboard.

Other SPC Policies:

For information regarding Intellectual Exchange, Disabilities, Non-Discrimination, Title IX Pregnancy Accommodations, CARE (Campus Assessment, Response, and Evaluation) Team, and Campus Concealed Carry, please use the following link:

<https://www.southplainscollege.edu/syllabusstatements/>



For information and resources about COVID-19, please visit <https://www.southplainscollege.edu/emergency/covid19-faq.php>



For the college withdrawal policy, please visit <https://www.southplainscollege.edu/admission-aid/apply/schedulechanges.php>



BIOLOGY 2402 TENTATIVE IN-CLASS AGENDA SPRING 2025

Date	Lecture
T Jan 14	Syllabus/The heart (Ch. 18)
Th Jan 16	The heart, continued
T Jan 21	The heart, continued
Th Jan 23	The heart, continued
T Jan 28	Blood vessels (Ch. 19)
Th Jan 30	Blood vessels, continued
T Feb 4	Blood vessels, continued
Th Feb 6	Blood vessels, continued & Cat dissection
T Feb 11	Lecture Exam 1 – Critical Thinking
Th Feb 13	Blood (Ch. 17)
T Feb 18	Blood, con't
Th Feb 20	Lymphatic system & immunity (Chs. 20 & 21)
T Feb 25	Lymphatic system & immunity, con't
Th Feb 27	Endocrine system (Ch. 16)
T Mar 4	Endocrine system, con't
Th Mar 6	Reproductive system (Ch. 27)
T Mar 11	Reproductive system, con't
Th Mar 13	Digestive system & nutrition (Chs. 23 & 24)
T Mar 25	Digestive system & nutrition, con't
Th Mar 27	Digestive system & nutrition, con't
T Apr 1	Cat dissection
Th Apr 3	Respiratory system (Ch. 22)
T Apr 8	Respiratory system, con't
Th Apr 10	Urinary system (Ch. 25)
T Apr 15	Urinary system, con't
Th Apr 17	Urinary system, con't
T Apr 22	Fluid, electrolyte & acid-base balance (Ch. 26)
Th Apr 24	Fluid, electrolyte & acid-base balance, con't
T Apr 29	In-class cat practical
Th May 1	Lecture Exam 5 – Critical Thinking
T May 6	Optional comprehensive final exams – take in-person on campus

The instructor reserves the right to make changes to this syllabus as necessary.

BIOLOGY 2402 TENTATIVE ASSIGNMENTS & TESTS SCHEDULE SPRING 2025 – ALL ASSIGNMENTS ARE DUE AT 11:59 PM CST ON THE DATE LISTED**YOU ARE WELCOME TO WORK AHEAD AT ANY TIME!**

Due Date	Week 1 assignments	Special Instructions	Done?
T – Jan 14	Chapter 18 videos (#1, 2 & 7)	---	
W – Jan 15	Chapter 18 videos (#3, 4 & 5)	---	
F – Jan 17	Orientation Videos (#1 through 4)	---	
	Study Schedule	---	
	Video: scanning when testing	---	
	Course Messages quiz	---	
	The Am I Ready? Quiz	---	
	Student learning survey	---	
	Prior knowledge quiz	Online with an external webcam	

Due Date	Week 2 assignments	Special Instructions	Done?
M – Jan 20	Chapter 18 videos (# 6, 8, 9 & 11)	---	
W – Jan 22	Chapter 18 video (#10)	---	
F – Jan 24	Chapter 18: Quiz, Lab quiz & Tutorials	---	

Due Date	Week 3 assignments	Special Instructions	Done?
M – Jan 27	Chapter 19 videos (#1 through 5)	---	
W – Jan 29	Chapter 19 videos (#6 through 8)	---	

Due Date	Week 4 assignments	Special Instructions	Done?
Th – Feb 6	In-class evaluation – cat dissection	Must be present in class for pts.	
Sun– Feb 9	Lab practical 1 (Chs. 18 & 19)	Online with an external webcam	
	Lecture exam 1 – Memorization portion (Chs. 18 & 19)	Online with an external webcam	

Due Date	Week 5 assignments	Special Instructions	Done?
T – Feb 11	Lecture exam 1 – Critical thinking portion (Chs. 18 & 19)	In class with learning aids	
W – Feb 12	Chapter 17 videos (#1 through 7)	---	

Due Date	Week 6 assignments	Special Instructions	Done?
M – Feb 17	Chapter 17 videos (#8, 9 & 10)	---	
W – Feb 19	Chapter 20 & 21 videos (#1 through 4)	---	

Due Date	Week 7 assignments	Special Instructions	Done?
M – Feb 24	Chapters 20 & 21 videos (#5 through 9)	---	
W – Feb 26	Chapter 16 videos (#1 through 6)	---	
Sun – Mar 2	Lecture exam 2 (Chs. 17, 20 & 21)	Online with an external webcam	
	Lab practical exam 2 (Chs. 17 & 20)	Online with an external webcam	

Due Date	Week 8 assignments	Special Instructions	Done?
W – Mar 5	Chapter 27 videos (#1 through 6)	---	

Due Date	Week 9 assignments	Special Instructions	Done?
M – Mar 10	Chapter 27 videos (#7 through 10)	---	
W – Mar 12	Chapter 23 videos (#1 through 10)	---	
Sun–Mar 23	Lab practical 3 (Chs. 16, 17, 20 & 27)	Online with an external webcam	
	Lecture exam 3 (Chs. 16 & 27)	Online with an external webcam	

Due Date	Week 10 assignments	Special Instructions	Done?
M – Mar 24	Chapter 23 videos (#11 through 14)	---	
W – Mar 26	Chapter 24 videos (#1 through 6)	---	
Sun–Mar 30	Lab practical 4 (Ch. 23)	Online with an external webcam	
	Lecture exam 4 (Chs. 23 & 24)	Online with an external webcam	

Due Date	Week 11 assignments	Special Instructions	Done?
M – Apr 1	In-class evaluation – cat dissection	Must be present in class for pts.	
W – Apr 2	Chapter 22 videos (#1 through 11)	---	

Due Date	Week 12 assignments	Special Instructions	Done?
M – Apr 7	Chapter 22 videos (#12 through 15)	---	
W – Apr 9	Chapter 25 videos (#1 through 7)	---	

Due Date	Week 13 assignments	Special Instructions	Done?
M – Apr 14	Chapter 25 videos (#8 through 11)	---	

Due Date	Week 14 assignments	Special Instructions	Done?
M – Apr 21	Chapter 26 videos (#1 through 7)	---	
W – Apr 23	Chapter 26 video (#8)	---	

Due Date	Week 15 assignments	Special Instructions	Done?
T – Apr 29	In-class cat practical examination	Must be present in class	
W – Apr 30	Lecture Exam 5 – Memorization Portion (Chs. 22, 25 & 26)	Online with an external webcam	
Th – May 1	Lecture Exam 5 – Critical Thinking (Chs. 22, 25 & 26)	In class with learning aids	
Sun – May 4	Lab practical 5 (Chs. 22 & 25)	Online with an external webcam	

Due Date	Week 16 assignments	Special Instructions	Done?
T – May 6	Optional comprehensive final lecture exam	In class, no learning aids	
	Optional comprehensive final practical exam	In class, no learning aids	