

BIOL 365: Human Anatomy & Physiology I
Fall 2025; MWF 12:30–1:20pm, Newton 204

Course Objectives:

This course is designed to provide an introduction to the anatomy and physiology of the human body. It is specifically focused on preparing students for future study of these topics in health-related professional schools. As such, it is a challenging course, but if you successfully complete it you will have a definite advantage in your future training. This course is two semesters long. The first semester focuses on the skeletal, muscular, and nervous systems and is organized regionally. This course contains a lecture and a required laboratory, which will feature dissections as well as physiological experiments.

Learning Outcomes:

- Identify structural components of the human body
- Understand physiological processes and functions
- Integrate anatomical and physiological knowledge of organs and organ systems
- Use critical thinking to solve clinical cases using basic concepts of anatomy and physiology

Instructors:

Dr. Sara H. Burch (she/her), ISC 358, burch@geneseo.edu (lecture, lab section 5)

Mr. Joshua Baecker (he/him), ISC 351, baecker@geneseo.edu (lab section 2, 4, 6)

Dr. Chidozie Okoye (he/him), ISC 352, cokoye@geneseo.edu (lab section 3)

Office Hours:

Burch: Monday 3:30–4:30pm, Thursday 3–4pm, Friday 10:30–11:30am, or by appointment.

Baecker: Monday 11am–12pm, Tuesday 12–1:30pm, Wednesday –2pm, or by appointment.

Okoye: TBA

Required Textbooks:

- Anatomy & Physiology: An Integrative Approach by McKinley, O'Loughlin, & Bidle (2025) Connect Edition (see note below)
- A Photographic Atlas for Anatomy & Physiology by Hebert, Heisler, Krabbenhoft, Malakhova, & Chinn (2015), Pearson. ISBN 9780321869258

Additional Supplies: Some tool for drawing and coloring lab worksheets will be required. Colored pencils are recommended.

NOTE: The university bookstore is only selling the Atlas required for lab. The online Connect (ebook) version of the McKinley textbook is required for weekly homeworks that will be assigned through that system. You can purchase access directly through the course site. For directions on how to register for Connect through Brightspace, [please visit this page](#). If you encounter any issues with McGraw Hill Connect, you need to reach out to the McGraw Hill Student Support Team. Be sure to write down your ticket number from your session with the Student Support Team in case you need it.

Lecture Notes and Lab Handouts:

Powerpoint slides from the lectures will be placed on the course website 24 hours prior to class time. Handouts for labs will be placed on the course website at least 24 hours prior to the first lab day. You are responsible for printing out these handouts and bringing them to your lab section, or bringing a device such as a tablet with you to lab that you can draw on.

Assignments:

READINGS: The readings relating to each lecture are given in the schedule below. You should attempt to read through the sections given and study the figures and tables before each lecture. Optional reading assignments will be given through the Connect module and due the same day as the given lecture. They will not be graded for points, but if you complete all of these reading assignments in a given block, you will earn 2 extra credit points on the relevant exam.

HOMEWORK: There will be 10 weekly homeworks assigned through the Connect system worth 5 points each. They will be due before class as noted on the lecture schedule below. You will have 3 attempts on the homeworks, and only your highest score will be taken. Late homeworks must be submitted via emailed screenshot of your final score and will be deducted 1 pt per day late.

QUESTION OF THE DAY: At various points during every class period you will be given a question to do in a small group or to answer via TopHat. If you participate in these questions (5 missing days permitted; “excused” absences will only be considered when related to official accommodations, college sports, or required quarantine/isolation) you will receive an additional 5 extra credit points for the course (note: this is added to the number of *points* you have earned [out of 905], not your final percentage). Attendance will be marked via an answer sheet for the main QOD. Everyone from your group who is present for the question must sign the answer sheet in order to receive credit for the question. Any group that submits a group-member’s name that is not present will lose all credit for that question.

Exams:

The first 3 exams are non-comprehensive and only cover material from lectures, readings and assignments since the previous exam. The final exam will be comprehensive, with 50% of the exam coming from the material covered since the third exam, and 50% of the exam coming from material from the entire semester. The comprehensive portion of the final exam will also automatically replace ONE of your previous exam scores (i.e., be double-counted in the final grade calculations) if you score higher on it than you did on one of the first three exams.

Weekly quizzes are designed to provide self-evaluation throughout the topic “block”, so that you can make sure your studying is on-track. There will be 8 quizzes given during the semester. Only 6 of these quizzes will count toward your grade, and 2 will be dropped.

Lab Assignments & Exams:

The lab is considered to be part of your entire grade for this course and makes up about 32% of your total points. Lab grades are determined by 3 non-comprehensive practical exams, 1 lab report based on physiology experiments in lab, and 9 lab worksheets. These lab worksheets will include contain figures to label in class as well as questions to answer and submit on Brightspace by the beginning of the next lab. Instructors will check lab worksheets for completion(at least 60% score) of drawing- and labeling-based activities.

Physiology-based labs will result in a lab report to be written up and turned in at the date given during the lab session. Details on how to write lab reports will be provided on Brightspace. You may work with your group on the content of the lab report, but each student must submit a typed report written in their own words. Lab reports will be due two weeks after experiments are performed, at the beginning of your assigned lab section. Late lab reports will be penalized by 5 points (one letter grade) for each day they are late.

Lecture:

Exams (3)	100 pts each	300 pts
Final Exam	200 pts	200 pts
Quizzes (6)	10 pts each	60 pts
Homeworks (10)	5 pts each	50 pts
Syllabus Quiz (5)	5 pts	5 pts

Lab:

Practical Exams (3)	50 pts each	150 pts
Lab Reports (1)	50 pts	50 pts
Lab Worksheets (9)	10 pts	90 pts
Total Points		905 pts

The grading scale for this course is the following:

A: 93%–100%	A–: 90%–92%	B+: 87%–89%	B: 83%–86%
B–: 80%–82%	C+: 77%–79%	C: 73%–76%	C–: 70%–72%
D: 60%–69%	E: <59%		

Attendance & Exam Excuse Policies:

Attendance is not a required part of your lecture grade. However, missing significant numbers of class days will impact your ability to gain the QOD extra credit. Attendance is required for lab, and is reflected by your lab worksheet grades. Make-up exams and quizzes will only be given in cases of extenuating circumstances (a direct and unavoidable conflict of an academic or professional nature). Vacations, weddings, and leaving early for holidays are not acceptable excuses for taking an exam early or late. If you can't make the scheduled exam date you must contact your instructors at least one week prior to the exam time. In cases of severe illness, family affairs, or quarantine restrictions, please contact your instructors as soon as you are able to schedule accommodations.

Communication:

You should feel free to email your instructors whenever you have a question or concern about the course, and we will get back to you as soon as we are able. However, please do not expect a response outside of regular business hours (9am–5pm M–F) or within 24 hours, because we may not see your email right away.

Academic Dishonesty:

We take plagiarism and other forms of academic dishonesty seriously. At its most basic, that means you are responsible for doing your own work. You may not reuse work from other classes, use the work of another person, plagiarize, or use artificial intelligence to help with or generate assignments. We enforce Geneseo's plagiarism policy. You can find more information about the policy here: Geneseo's Academic Dishonesty Policy. In this course, consequences of a first offense are a zero (0) on the relevant assignment or exam. Consequences of a second offense are a failing grade (E) overall in the course.

The use of AI, like Chat-GPT, is strictly prohibited. You must do your own work, which means that you should not utilize tools like Chat-GPT for any aspect of our course work. Such use is a form of academic dishonesty. Use of such tools is not only cheating, it will also cheat you of the opportunity to learn and develop your own skills. While AI will undoubtedly play important roles in our future society, you will be better able to utilize AI if you have developed your own critical thinking, writing, and analytical skills by doing your own work. If you have any questions about this, please ask.

Academic & Personal Support Resources:

Many students find A&P to be a very demanding class. In order to prepare you for your future professional schools, we will cover a lot of material in a short amount of time. This, combined with the stresses we are all under can mean you may find yourself overwhelmed at various points in the semester. Your health and well-being are foundational to your ability to learn, and if you find that you are feeling unwell (physically or mentally) and it is impacting your ability to complete your coursework, please reach out. Students are strongly encouraged to communicate their needs to faculty and staff and seek support if they are experiencing unmanageable stress or are having difficulties with daily functioning. The Dean of Students (585-245-5706) can assist and provide direction to appropriate campus resources. Please see the Brightspace page titled “Academic & Personal Support Resources” for a complete list of on and off-campus resources to help.

Accommodations:

SUNY Geneseo is dedicated to providing an equitable and inclusive educational experience for all students. The Office of Accessibility will coordinate reasonable accommodations for persons with physical, emotional, or cognitive disabilities to ensure equal access to academic programs, activities, and services at Geneseo. Students with letters of accommodation should submit a letter to each faculty member and discuss their needs at the beginning of each semester. Please

contact the Office of Accessibility Services for questions related to access and accommodations. Office of Accessibility Services in Erwin Hall 22 or access@geneseo.edu or 585-245-5112.

Land Acknowledgment:

Land acknowledgements are expressions of sorrow and remembrance to those whose historic territory one resides on. Geneseo resides on the homeland of the Seneca Nation of Indians and Tonawanda Seneca Nation. We encourage you to learn more about these original occupants and those indigenous to other places you have lived. You may consider using the Native Land app and/or websites such as sni.org to learn more about the community of more than 7,000 enrolled Indigenous Peoples.

Lecture Schedule

DATE			TOPIC	READING
Aug	25	M	1. Introduction & Review	Sections 1.1–1.4, 4.3, 4.5, 4.6d
	27	W	2. Homeostasis (& Start Tissues I)	Sections 1.5–1.7
	29	F	3. Tissues I: Epithelium	Sections 5.1, 5.5
Sept	1	M	NO CLASS – LABOR DAY	
	3	W	4. Tissues II: Connective Tissue	Section 5.2
	5	F	5. Tissues III: Integument [Quiz 1] [HW 1 Due]	Sections 6.1–6.3
	8	M	6. Bones: Intro & Histology	Sections 7.1–7.5, 7.7
	10	W	7. Bone Remodeling & Joints	Sections 7.6, 7.8, 9.1–9.4
	12	F	8. Muscles: Intro & Histology [Quiz 2] [HW 2 Due]	Sections 10.1, 10.2, 10.5, 10.9, 10.10
	15	M	9. Nerves: Intro & Histology	Sections 12.1–12.6
	17	W	Review [HW 3 Due]	
	19	F	EXAM #1	
	22	M	10. Neuromuscular Physiology I	Sections 12.7–12.9
	24	W	11. Neuromuscular Physiology II	Sections 12.9–12.11
	26	F	12. Neuromuscular Physiology III	Sections 10.3, 10.4, 10.6, 10.7
Oct	29	M	13. Spine & Spinal Cord [Quiz 3][HW 4 Due]	Sections 8.5, 14.1–14.3, 14.5a
	1	W	14. PNS I: Spinal Reflexes & General Sensation	Sections 14.6, 16.1, 16.2
	3	F	15. PNS II: Autonomics	Sections 15.1–15.6

DATE		TOPIC	READING
	6 M	16. Trunk	Sections 8.6, 8.10, 11.4–11.6, 14.5c
	8 W	17. Trunk & Neck [Quiz 4]	Sections 8.3, 11.3d–e, 14.5d
	10 F	Review [HW 5 Due]	
	13 M	NO CLASS – FALL BREAK	
	15 W	EXAM #2	
	17 F	18. Organization of the Upper Limb	Sections 8.8, 8.9, 11.8, 14.5e
	20 M	19. Shoulder & Axilla	Sections 9.7b, 11.8a, 11.8b
	22 W	20. Elbow	Sections 9.7c, 11.8c
	24 F	21. Wrist & Hand	Sections 11.8d, 11.8e
	27 M	22. Organization of the Lower Limb [Quiz 5] [HW 6 Due]	Sections 8.11, 11.9, 14.5f,g
	29 W	23. Hip & Gluteal Region	Sections 9.7d, 11.9a
	31 F	24. Knee & Ankle	Sections 9.7e, 11.9b
Nov	3 M	25. Foot [Quiz 6]	Sections 9.7f, 11.9c, 11.9d
	5 W	Review [HW 7 Due]	
	7 F	EXAM #3	
	10 M	26. Skull & Cranial Meninges	Sections 8.2, 13.2
	12 W	27. Brain I	Sections 13.1, 13.3
	14 F	28. Brain II	Sections 13.4, 13.5, 13.7
	17 M	29. Brain III & Spinal Pathways [Quiz 7][HW 8 Due]	Sections 13.6, 13.8, 14.4
	19 W	30. Cranial Nerves I, II (Vision, Olfaction)	Sections 13.9, 16.3a, 16.4
	21 F	31. Cranial Nerves III, IV, & VI (Eye Movements)	Sections 11.3b, 13.9
	24 M	32. Cranial Nerve V (Sensation, Mastication) [Quiz 8] [HW 9 Due]	Sections 9.7a, 11.3c, 13.9
	26 W	NO CLASS – THANKSGIVING	
	28 F	NO CLASS – THANKSGIVING	

DATE			TOPIC	READING
Dec	1	M	33. Cranial Nerve VII (Muscles of Facial Expression)	Sections 11.3a, 13.9, 16.3b
	3	W	34. Cranial Nerve VIII (Hearing & Balance)	Sections 13.9, 16.5
	5	F	35. Cranial Nerves IX, X, XI, XII (Tongue & Neck)	Sections 11.3c, 11.3d, 13.9, 23.3a
	8	M	Review [HW 10 Due]	
	12	F	FINAL EXAM: 12:00–2:30PM	

Lab Schedule

DATES	LAB	TOPIC
Aug 27–28	1	Introduction
Sept 3–4	2	Histology I
Sept 10–11	3	Histology II
Sept 17–18		LAB PRACTICAL #1: HISTOLOGY
Sept 24–25	4	Neuromuscular Physiology I
Oct 1–2	5	Neuromuscular Physiology II
Oct 8–9	6	Back & Thorax
Oct 15–16	7	Neck, Abdomen & Pelvis
Oct 22–23	8	Upper Limb
Oct 29–30		LAB PRACTICAL #2
Nov 5–6	9	Lower Limb
Nov 12–13	10	Skull & Brain
Nov 19–20	11	Eye, Ear, Nose, & Throat
Nov 26–27		NO LAB—THANKSGIVING
Dec 3–4		LAB PRACTICAL #3