Human Anatomy and Physiology 1 Syllabus

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Course Description

Human Anatomy and Physiology is a two-semester, introductory, college-level course designed to provide a broad overview of the unity of form and function in humans, specifically, and mammals in general.

Meeting Times

Day(s)	Times	Location
Mondays	6:30 pm – 7:30 pm	Room K
Thursdays	5:00 pm – 6:00 pm	Room K
Fridays	4:00 pm – 5:30 pm	Room K

Required Materials

1. **Campbell Biology 12th ed. e-text** (digital, available through Canvas). Most reading assignments are in this textbook; it is the best reference for course material. The internet is vast! We will not be testing you on the internet's content (that is too much!), so please use the textbook for what we have covered/expect you to know.

2. **Canvas**: https://msmary.instructure.com/. Canvas is our learning management system at the Simmons Academy. Everything you need to know about the course is here (links to the e-text, homework assignments, lecture content, etc.).

Learning Outcomes

By the end of this course, students will be able to

a. Explain the basic principles of homeostasis, development, health, and disease.

b. Name and locate significant anatomical structures of the human body and describe their composition.

c. Use medical and biological terminology proficiently.

d. Explain the function of major organ systems, organs, and tissues.

Grading

Your course grade will be based on homework, in-class activities and assignments, two unit exams and a comprehensive final exam.

Homework	25%
In-Class Assignments	15%
Unit Exams	40%
Comprehensive Final Exam	20%
Total	100%

Approximate letter grades according to overall course grade (%).

A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
94 - 100%	90 - 93.9%	87 - 89.9%	83 - 86.9%	80 - 82.9%	77 - 79.9%	73 - 76.9%	70 - 72.9%	67 - 69.9%	63 - 66.9%	60 - 62.9%	<60%

Assignments

Exams. There will be a total of three exams. These unit exams will cover different topics but are not comprehensive. At the end of the course you will complete a cumulative final exam. This means that it will cover material from the whole semester (Units 1-4). All exams will consist of multiple choice, fill-in-the-blank, matching, and short answer questions taken from the material covered in the textbook, class activities, any supplemental readings, and the lecture.

Preparation and participation. You will read below that we expect you to prepare for each class period and then participate in class. In-class activities will typically consist of responses to quiz and hands-on demonstrations or activities.

Homework assignments. Homework will typically be assigned after class. Each homework assignment comprises only a small portion of your overall grade, so they are a low-stakes way to allow you to see what course material you have mastered and what you still need to work on. They will help you focus your study efforts as you prepare for exams.

Course Policies

Attendance.

General Expectations. Consistent class attendance sets you on a good path to earning a satisfactory grade in the class. If you must be absent, contact the instructor and check Canvas to see what work you are responsible for that you missed.

Format. This course is designated to meet in-person (face-to-face).

Make-up Policy

Even if you strive for perfect attendance, we understand that you may have to miss class due to unavoidable occurrences like getting sick or injured, having a family emergency, or participating in a school-sponsored event.

Homework assignments within a unit may be submitted late up until the exam for that unit (See Turning in Assignments, below).

Exams may be made up if the absence was excused (i.e., due to illness, accidental injury, family emergency, or participation in a University-sponsored event). Work with your instructor to schedule the make-up exam, which may consist of an alternative format, such as an essay exam.

Turning in Assignments

Format. Unless otherwise specified, submit all homework assignments electronically through Canvas.

Our expectations of each other to promote an environment conducive to learning

Students:

- Treat one another and the professor with respect.
- Minimize disturbance that would detract from the learning environment.
    - Come to class on time.
    - Mute cell phones.
    - Be unobtrusive if you need to leave the classroom to use the restroom or to get water.
    - Keep side conversations to a minimum to allow everyone to hear the instructor and other students when they are speaking.
    - Use electronic devices only for engaging with the course material.

- Come to class prepared to engage in the material and the day's activities.

- Stay up to date with course announcements by checking your email and the course Canvas site daily.

Professor: The Professor will be respectful to the students and each other during the course. To promote an atmosphere conducive to learning, the professor will ensure that students follow the guidelines listed above and agree to adhere to the following guidelines:

- I will be prepared to begin each class on time.

- I will not keep students in the classroom after the scheduled class period.

- I will mute my cell phone before entering the classroom.

- I will return assignments promptly.

- I will be responsive to student questions and requests for assistance. I will be available to students during posted student hours.

- I will take different learning styles, personalities, educational backgrounds, etc. into account in planning lessons and assessments.

- I will use inclusive teaching practices and stay proactive about identifying and addressing biases.

- I will not condone acts, behavior, language, or symbols that represent or reflect intolerance or discrimination.

Academic Integrity: An academic community, regardless of delivery modality (e.g., in-person, online), must operate with complete openness, honesty and integrity. Responsibility for maintaining this atmosphere lies with the students, faculty and administration. Therefore, the achievement of personal and academic goals through dishonest means will not be tolerated.

Academic misconduct includes but is not limited to:

1. **Cheating:** the unauthorized use, access, or exchange of information before or during a quiz, test or semester examination. Unauthorized collaboration on a class assignment, submitting the same work in two courses without the professor's permission, and buying or selling work for a course are also forms of cheating.

2. **Plagiarism**: the representation of someone else's words or ideas as one's own. The various forms of plagiarism include but are not limited to copying homework, falsifying lab reports, submitting papers containing materials written by another person, and failing to document correctly in one's written assignment words, arguments or ideas secured from other sources including content available from websites. Plagiarism detection

software may be used with assignment submissions to verify original work.

3. **Providing or receiving assistance in a manner not authorized by the professor** in the creation of work to be submitted for academic evaluation including papers, projects and examinations; presenting as one's own the ideas or words of another for academic evaluation without proper acknowledgement.

4. **Doing unauthorized academic work** for which another person will receive credit or be evaluated.

5. **Misrepresenting student identity:** posing as another or having someone pose as you is an act of academic misconduct. Identity verification may be required to complete course activities and assessments.

6. **Attempting to influence one's academic evaluation** by means other than academic achievement or merit including unauthorized access to computer systems.

7. **Assisting in misconduct**: cooperation with another in an act of academic misconduct. A student who writes a paper, posts a paper or exam questions online, or does an assignment for another student is an accomplice and will be held accountable just as severely as the other. Any student who permits another to copy from his or her own paper, examination, or project shall be held as accountable as the student who submits the copied material. Students are expected to safeguard their work and should not share papers, projects, homework, or exam answers with other students unless specifically directed to by their professors.

8. **Failure to protect University accounts and computer systems** such as sharing of accounts, passwords, and other assigned resources whether with intention or through negligence.

Accessibility statement. Simmons Academy views disability as an important aspect of diversity and is committed to providing equitable access to learning opportunities for all students.

If you have, or think you have, a disability in any area, such as mental health, attention, learning, chronic health, sensory, or physical, please contact Dr. McLeod-Simmons to arrange a confidential discussion regarding equitable access and reasonable accommodations. Eligible students will be provided with an Accommodation Letter and reasonable accommodations will be arranged after timely delivery of the Accommodation Letter to the instructor. Students are encouraged to deliver Accommodation Letters as early in the semester as possible.

Students with short-term disabilities, such as a broken arm, can often work with instructors to minimize classroom barriers in situations where additional assistance is needed.

Human Anatomy and Physiology Class, 11th Grade, 2025-26

Course Schedule

Fall 2025

Date	Day	Topic	Learning Activities	Textbook Section
09/02/2025	Tuesday	An Overview of Anatomy and Physiology	Lecture, discussion, knowledge checks	1.1
09/04/2025	Thursday	Structural Organization of the Human Body	Microscope or anatomy model investigation	1.2
09/09/2025	Tuesday	Functions of Human Life	Lecture, discussion, knowledge checks	1.3
09/11/2025	Thursday	Requirements for Human Life	Lecture, discussion, knowledge checks	1.4
09/16/2025	Tuesday	Homeostasis	Lecture, worksheet, problem solving	1.5
09/18/2025	Thursday	Elements and Atoms	Lecture, discussion, knowledge checks	2.1
09/23/2025	Tuesday	Chemical Bonds	Hands-on activity, chemical models	2.2
09/25/2025	Thursday	Chemical Reactions	Interactive lecture and guided notes	2.3
09/30/2025	Tuesday	Inorganic Compounds	Hands-on chemistry experiment	2.4
10/02/2025	Thursday	Organic Compounds	Hands-on anatomical model exploration	2.5
10/07/2025	Tuesday	The Cell Membrane	Interactive lecture and guided notes	3.1
10/09/2025	Thursday	The Cytoplasm and Organelles	Labeling diagrams, worksheet	3.2
10/14/2025	Tuesday	The Nucleus and DNA Replication	Diagramming and concept maps	3.3
10/16/2025	Thursday	Protein Synthesis	Virtual lab activity and analysis	3.4
10/21/2025	Tuesday	Unit Exam 1	Exam	
10/23/2025	Thursday	Types of Tissues	Diagram labeling and review practice	4.1
10/28/2025	Tuesday	Epithelial Tissue	Collaborative problem-solving activity	4.2
10/30/2025	Thursday	Connective Tissue	Lecture, discussion, knowledge checks	4.3
11/04/2025	Tuesday	Muscle Tissue and Nervous Tissue	Microscope examination of tissues lab	4.4
11/06/2025	Thursday	Layers of the Skin	Hands-on anatomical model exploration	5.1
11/11/2025	Tuesday	Accessory Structures of the Skin	Interactive lecture and guided notes	5.2
11/13/2025	Thursday	Functions of the Integumentary System	Microscope examination of tissues lab	5.3
11/18/2025	Tuesday	Diseases and Injuries of the Skin	Lecture, discussion, knowledge checks	5.4
11/20/2025	Thursday	Classification of Joints	Lecture, worksheet	10.1
11/25/2025	Tuesday	*Thanksgiving Break*		
11/27/2025	Thursday	*Thanksgiving Break*		

12/02/2025	Tuesday	Fibrous Joints	Case study investigation	10.2
12/04/2025	Thursday	Cartilaginous Joints	Hands-on anatomical model lab	10.3
12/09/2025	Tuesday	Synovial Joints	Lecture, discussion, drawing, knowledge checks	10.4

Winter Break

Spring 2026

Date	Day	Topic	Learning Activities	Textbook Section
01/15/2026	Thursday	Types of Body Movements	Hands-on movement exercise	10.5
01/20/2026	Tuesday	Unit Exam 2	Exam	
01/22/2026	Thursday	Interactions of Skeletal Muscles	Lecture, discussion, drawing, knowledge checks	11.1
01/27/2026	Tuesday	Muscle Fiber Structure	Hands-on anatomical model lab	11.2
01/29/2026	Thursday	Contraction and Relaxation of Muscles	Lecture, discussion, drawing, knowledge checks	11.3
02/03/2026	Tuesday	Energy and Metabolism	Lecture, discussion, drawing, knowledge checks	11.4
02/05/2026	Thursday	Exercise and Muscle Performance	Hands-on muscle lab	11.5
02/10/2026	Tuesday	Organs and Structures of the Respiratory System	Diagram labeling, lecture	22.1
02/12/2026	Thursday	The Process of Breathing	Case study investigation	22.2
02/17/2026	Tuesday	Gas Exchange	Lecture, discussion, drawing, knowledge checks	22.3
02/19/2026	Thursday	Transport of Gases	Lecture, discussion, drawing, knowledge checks	22.4
02/24/2026	Tuesday	Transport of Gases 2	Hands on gas volume lab	22.4
02/26/2026	Thursday	Respiratory Regulation	worksheet and partner problem solving	22.5
03/03/2026	Tuesday	Unit Exam 3	Exam	
03/05/2026	Thursday	Overview of the Digestive System	Lecture, discussion, drawing, knowledge checks	23.1
03/10/2026	Tuesday	Digestive Processes	Lecture, discussion, drawing, knowledge checks	23.2
03/12/2026	Thursday	The Mouth, Pharynx, and Esophagus	Hands-on anatomical model lab	23.3
03/17/2026	Tuesday	The Stomach	Microscope or anatomy model investigation	23.4
03/19/2026	Thursday	The Small and Large Intestines	Lecture, discussion, drawing, knowledge checks	23.5
03/24/2026	Tuesday	Accessory Organs in Digestion	Interactive lecture and guided notes	23.6
03/26/2026	Thursday	Chemical Digestion and Absorption	Case study investigation	23.7
03/31/2026	Tuesday	*Easter Break*		
04/02/2026	Thursday	*Easter Break*		
04/07/2026	Tuesday	Functions of the Urinary System	Diagram labeling and review practice	24.1

04/09/2026	Thursday	*Out of Town*		
04/14/2026	Tuesday	Functions of the Urinary System 2	Diagram labeling and review practice 2	24.1
04/16/2026	Thursday	Anatomy of the Kidney	Collaborative problem-solving activity	24.2
04/21/2026	Tuesday	Urine Formation	Interactive lecture and guided notes	24.3
04/23/2026	Thursday	Urine Transport and Elimination	Interactive lecture and guided notes	24.4
04/28/2026	Tuesday	Urine Transport and Elimination 2	Interactive lecture and guided notes	25.4
04/30/2026	Thursday	Fluid, Electrolyte, and Acid-Base Balance	Problem solving, lecture	24.5
05/05/2026	Tuesday	Unit Review		
05/07/2026	Thursday	Unit 4 Exam	Exam	

Textbook Referer OpenStax Human Anatomy and Physiology 2e
https://openstax.org/details/books/anatomy-and-physiology-2e

Assessment	Attendance: Emma	Attendance Sarah
	☑	☑
Homework assignment	☑	☑
	☑	☑
Homework assignment	☑	☑
worksheet	☑	☑
Homework assignment	☑	☑
lab worksheet	☑	☑
	☑	☑
lab worksheet	☑	☑
Homework assignment	☑	☑
Homework assignment	☑	☑
Vocabulary quiz	☑	☑
Diagram labeling assessment	☑	☑
Study guide review	☑	☑
Unit Exam 1	☑	☑
Diagram labeling assessment	☑	☑
	☑	☑
Homework assignment	☑	☑
Group presentation rubric	☑	☑
	☑	☑
Homework assignment	☑	☑
lab worksheet	☑	☑
Homework assignment	☑	☑
	☑	☑
	☐	☐
	☐	☐

Homework assignment	☑	☑
lab worksheet	☑	☑
Homework assignment	☑	☑

Assessment	Attendance: Emma	Attendance Sarah
Study guide review	☑	☑
Unit Exam 2	☑	☑
	☑	☑
Homework assignment	☑	☑
Lab worksheet	☑	☑
Vocabulary quiz	☑	☑
Lab worksheet	☑	☑
diagram submission	☑	☑
Homework assignment	☑	☑
Chapter quiz	☑	☑
Diagram labeling assessment	☑	☑
lab worksheet	☑	☑
Problem worksheet	☑	☑
Unit Exam 3	☑	☑
	☑	☑
Homework assignment	☑	☑
lab worksheet	☑	☑
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Lab worksheet	☑	☑
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Homework assignment	☑	☑
Diagram labeling	☑	☑
assessment		
worksheet	☑	☑
	☑	☑
Homework assignment	☑	☑
	☑	☑
Study guide review	☑	☑
Unit Exam	☑	☑