

BIO 234 Human Anatomy and Physiology

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Labs Tuesday 9-12
Tuesday 1-4
Office Hours: Monday 9-10
Thursday 9-10
or by appointment

Course Objectives: This course is designed to fill two semesters of learning human anatomy and physiology. The main objective of the first semester of this class is to understand the underlying structures of human anatomy and its physiology. Anatomy and physiology are very closely associated as the structures (anatomy) of a body are influenced by or reflective of their function (physiology).

Student Goals and Class Objectives:

1. To learn, comprehend, and use proper anatomical terminology. This will include learning the roots of words to better understand how anatomical terminology is used in medical and science careers.
2. To gain familiarity with basic human body structure.
3. To understand the details of anatomy from cells to tissues to organ systems to organisms. We will work together to understand how cellular processes inform organ processes. We will form a working knowledge of how body systems work independently and together.
4. To form a knowledge base with which we will be able to discuss injuries, diseases, and other clinical implications of anatomy.

Texts:

Required:

Marieb, E.N. and L.A. Smith. 2016. Human Anatomy & Physiology Laboratory Manual. 12th edition (cat version). Pearson Education Inc. publishing as Benjamin Cummings.

Recommended:

ANY Anatomical atlas published since 2005. A list is available on Canvas.

Betts et al. 2017. Human Anatomy & Physiology. OpenStax

Attendance (Lecture and Lab):

Lecture and laboratory attendance requirements are outlined in the Department of Biology (DoB) Attendance Policy posted here. Unexcused absences from lecture will count as a 0.5 point reduction from the class discussion grade. Unexcused absences from lab will count as a percent reduction from the lab participation grade, not the course total that is outlined in the DoB Attendance Policy.

Class Discussions and Professionalism:

Class discussions will be conducted on various topics throughout the semester. Class discussions will be conducted respectfully and professionally. Anatomy is an important topic for students on the path to becoming professionals in medical and research careers and our discussions will be conducted professionally, as in those careers. We will use proper terminology to discuss topics. Each student is expected to be respectful of their peers and to hold everyone, including me, responsible for properly addressing students by their chosen names, pronouns, and respective titles and using proper terminology in discussions. If any student wishes to discuss class discussion, content, or any other aspect of class with me they are welcome and encouraged to do so. If you feel uncomfortable speaking with me for any reason, I encourage you to contact the [Office of the Dean of Students](#) with your concerns.

Exams and Grading:

Module Mini-test:

After each module's information is covered (see modules in the class schedule) a mini-test will be conducted concerning the module's information. These assessments are larger than quizzes, but smaller than tests.

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Final Exam:

The final exam will be cumulative and cover the entire semester's worth of information. All topics of anatomy will be eligible for the final

Lab Exams:

Lab exams will be conducted at the halfway mark and the final week of this semester. These are 50-point exams that will include practical style questions and identifications from dissections and lab activities.

The point breakdown for the course will be as follows:

Module Mini-tests (50 pts. each):	- worth 350 points
Final Exam	- worth 100 points
Laboratory exams (50 pts. each):	- worth 100 points
Class Discussions	- worth 100 points
	Total 650 points

Academic Support Services:

Academic support resources are available to students at no charge through the Academic Learning Center, the Writing Center and Disability Services. The Academic Learning Center offers course-specific tutoring, academic skills workshops, hands on learning strategies instruction, and academic counseling to supplement faculty advisement. The Writing Center offers tutoring to assist with writing and reading support for any class. The Student Accessibility and Advocacy office is the source for impairment-related accommodations consistent with the ADA and its amendments. Students who receive accommodations from the SAA office should meet with course instructors privately and in a timely manner to discuss the Academic Accommodation Letter (AAL) provided by that office. **Please note that IEPs and 504 plans do not apply to college level courses.** All three offices are in the administration building. For help or further information, contact the ALC at academiclearningcenter@albright.edu or 610-921-7662; the WC at writingcenter@albright.edu or 610-921-7540; and the Student Accessibility and Advocacy office at SAA@albright.edu or 610-929-6639.

Class Schedule

This schedule is subject to change due to student interest and classroom discussions. All changes will be announced through Canvas ahead of the class meeting.

Week	Topic	Reading in Text
1	Course Introduction	Ch. 1
	Cells and Tissues	Chs. 2 – 4
2	Appendicular Skeleton and Muscle	Chs. 6 – 10
	Axial Skeleton and Muscle	Chs. 6 – 10
3	Central Nervous System	Chs. 11 – 15
	Peripheral Nervous System	Chs. 11 – 15
4	Circulatory System	Chs. 17 – 19
	Endocrine and Lymphatic Systems	Chs. 16 & 20
5	Respiratory System	Ch. 21

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	Organs of the Respiratory System	Ch. 21
6	Digestive System	Ch. 22
	Organs of the Digestive System	Ch. 22
7	Urinary System	Chs. 24
	Reproductive System	Chs. 25

Laboratory Information:

Many of the laboratory exercises in this class will be explorations of anatomy. We will complete some more physiologically based exercises as well. Your mastery of the information will be demonstrated on quizzes following each unit. In this way, you can learn the information as we move through the course, rather than saving your studying time for one or two major laboratory exams. Worksheets which allow you to present, analyze and discuss your data, will provide a mechanism for you to demonstrate your understanding of the more experimental laboratory exercises. Your laboratory manual contains the bulk of worksheets to be completed. We will discuss these before you leave lab so that we can identify difficult topics and help you all to be successful in the lab.

Lab Safety (Mostly borrowed from BIO 151 Lab; i. e. you have seen this before!):

Students are expected to **follow all lab safety rules at all times**, including arriving in lab with appropriate footwear. Students who are not wearing proper footwear will be sent away to procure acceptable footwear. At times we will be using sharp tools. Safe use of tools will be further explained in labs but includes properly securing tools when not in use and proper handling of tools. **Food, drinks, candy, gum, and other consumables including tobacco and vaporizer products are not permitted in laboratory spaces.** Any food, drink, or other consumables brought into lab must be disposed of. Failure to follow proper safety procedures may lead to dismissal from the lab, at the discretion of the instructor or the Environmental Health and Safety Officer. A handout on safe lab practices will be provided, which must be signed by the student prior to participation in the lab.

Laboratory Schedule

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Week	Topic	Reading in Text
1	Cells, Tissues, and Skeleton	Ch. 1
2	Muscle	Ch. 4
3	Nervous System	Ch. 5
4	Circulatory System	Ch. 6
5	Respiratory System	Ch. 8
6	Digestive System	Chs. 6 – 9
7	Urinary and Reproductive Systems	Chs. 10 – 11

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Name: _____

1. What is your year in school and major?
2. Why are you taking Anatomy?
3. What other science classes have you taken? Include both high school level and college level classes.
4. List your top 3 favorite musical artists or top 3 favorite movies
5. Please sign the syllabus agreement below:

I have read the BIO234 Syllabus and agree to adhere to the policies and procedures stated within the syllabus.

Signature: _____

Date: _____