

BMS 507: Human Anatomy & Physiology 1

Summer 2025 (5/19/25 – 6/20/25), online asynchronous

Contact Information

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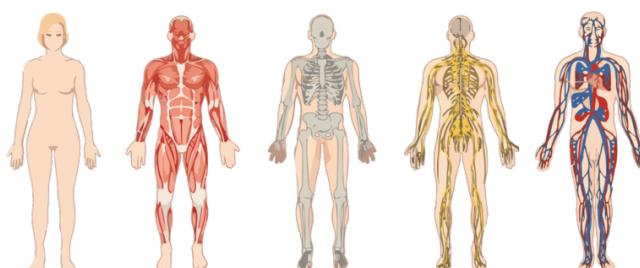
Course Overview & Objectives

In this course, we will begin the investigation of cellular and systematic aspects of the human body. We will begin with an overview of biological organization, chemistry, cell biology and tissues and then move on to cover 4 of the 11 organ systems of the human body (integumentary, skeletal, muscular and nervous).

Laboratory activities will reinforce what is covered in lecture and will utilize both preserved specimens and computer-aided instruction in addition to activities which will assess the students own physiological functions.

During the course, students will be able to:

- Demonstrate a basic understanding of the initial topics, including a familiarity with the associated terminology
- Recognize, define and utilize appropriate terminology to refer to the structures and functions of the systems covered
- Identify and explain the structures and functions of the systems covered.
- Demonstrate an understanding of the relationship between structure and function in the systems covered
- Express how the normal structure and function of the systems covered contribute to maintaining homeostasis in the body
- Relate the symptoms of a disease or disorder to the underlying changes in anatomy and or physiology associated with that condition



Course Materials

Textbook:

Anatomy and Physiology from OpenStax, Print ISBN 1938168135, Digital ISBN 1947172042,

www.openstax.org/details/anatomy-and-physiology

Other Materials:

- Access to Mastering Anatomy and Physiology website (access through link in MyCourses)

Your textbook for this class is available for free online! If you prefer, you can also get a print version at a very low cost. Your book is available in web view and PDF for free. You can also choose to purchase on iBooks or get a print version via the campus bookstore or from OpenStax on Amazon.com. You can use whichever formats you want. Web view is recommended -- the responsive design works seamlessly on any device. If you buy on Amazon, make sure you use the link on your book page on openstax.org so you get the official OpenStax print version. (Simple printouts sold by third parties on Amazon are not verifiable and not as high-quality.)

Course modality:

This is an online, asynchronous course. Course materials will be posted in modules on MyCourses each week. on Monday at 12:01am. Modules will include links to all materials necessary to complete the work for that week, including both lecture and lab materials. Assignments submitted online will generally be due at midnight on Sunday of the week assigned.

Assignments & Grading

Evaluation:

- 4 lecture exams (100pts each), 400 points total (67% of final grade)
- Mastering A&P assignments (12 assignments, 8% of final grade)
- Laboratory grade (150 points total, 25% of final grade)

Exams:

During the course you will take 4 non-cumulative exams. Exams will have two components: an online component that will consist of primarily true/false, matching, and multiple-choice style questions and a written component that will consist of open response questions. Both components should be completed within the week assigned unless prior arrangements have been made for an extension.

Extra credit policy: There will be extra credit points available on the written component of each exam. I will not give extra credit assignments to individual students who are unhappy with their grades because that is not fair to the rest of the class!

Course and University Policies & Resources

Attendance

In general, attendance is mandatory because it is strongly correlated with success in this course! As this is a fully online, asynchronous course, “attendance” means logging into the course regularly to access the new material that is posted weekly. This is a fast-paced class and we will cover a significant amount of content in each weekly module. If for some reason you will not have access to the modules in a given week, please let us know as far in advance as possible and we will attempt to accommodate you.

Classroom behavior

You are expected to conduct yourself in a professional manner at all times while participating in this course. This includes an expectation of respectful behavior during any online interactions with classmates or myself.

Academic Alerts

The University is invested in your academic success. If a faculty member is concerned about your academic behavior or performance, they may submit an academic alert. Academic alerts are not punitive. The goal is to provide you with support and resources to support your success. They act as an important check-in point and, if you receive an academic alert, you will receive an email to your UNH email address. It is strongly recommended that you meet with a professional advisor and connect with your instructor to discuss the reason for the alert.

Accommodations for Disability

The University is committed to providing students with documented disabilities equal access to all university programs and facilities. If you think you have a disability requiring accommodations, you must register with the Student Accessibility Services (SAS) office. The Disability Specialist at UNHM is Alex Wedge. Please reach out to the SAS office via email at alex.wedge@unh.edu for registration information and disability related questions.

Academic Integrity Policy:

The Biology Program at UNH Manchester will strictly adhere to the University policy on academic honesty, as published in the UNH Student Rights, Rules, and Responsibilities Handbook (<http://www.unh.edu/vpsas/handbook/academic-honesty>). By turning in any piece of work in this course, you declare that you have read and understand the policy, and that you did not engage in any form of academic dishonesty as defined in the Handbook.

Plagiarism can take many forms, such as: submitting someone else’s work – in whole or in part – as your own; collaborating on answers for individual assignments, or allowing your own work to be used by another student; copying information from a web site or other text without proper documentation; buying a pre-written paper or lab report.

Cheating is mainly concerned with copying on exams or in lab, bringing crib notes into an in-person exam or referring to notes, the textbook, or any prohibited device such as a programmable calculator, tablet, or cell phone during an exam. All electronic devices must be turned off and put away for the duration of an in-person exam. Ear buds are not permitted.

For online exams, you will be given instructions about which materials are and are not permitted to be used. You will be asked to digitally sign an Academic Honesty statement before beginning any exam agreeing to follow all exam policies.

Posting any portion of faculty-created materials such as homework assignments or exam questions to “tutoring” or “study” websites is a serious violation of the Academic Honesty policy of the University. Any instances of this form of cheating will be brought directly to the department chair and dean’s office.

Any instances of cheating or plagiarism will result in consequences that can range from a failing grade on the assignment for all students involved to dismissal from the University, as defined in the UNH Student Rights, Rules, and Responsibilities Handbook.

Referral Resources for Students

Library

The UNH Manchester librarians are available to assist you with the research process. Visit the library’s website at <https://cps.unh.edu/library> to learn about library services and to search for reliable academic sources. You can contact the library at 603-641-4173 or at unhm.library@unh.edu.

The links below guide you to useful online library resources:

- Make a **Research Appointment** with a librarian: <https://libraryguides.unh.edu/remoteaccess/researchhelp>
- Use the **Library Search Box** to find information: https://libraryguides.unh.edu/librarysearchbox_unhmanchester
- Reserve a **Study Room**: <https://cps.unh.edu/library/support-services>
- Discover resources for **Citing Sources**: <https://libraryguides.unh.edu/unhmcitingsources>
- Learn strategies for **Evaluating**

Sources: <https://libraryguides.unh.edu/ENGL401UNHManchester/evaluatingsources>.

Mental Health and Wellness

In partnership with The Mental Health Center of Greater Manchester, UNH Manchester offers free mental health sessions for students. Students can schedule virtual counseling sessions by emailing unhm.advising@unh.edu. Counselors will be available virtually on Monday, Tuesday, and Thursday from 9am-5pm. The National Suicide Prevention Lifeline provides 24/7, free and confidential support via phone or chat for people in distress, resources for you or your loved ones, and best practices for professionals. Call (800) 273-TALK (8255).

Confidentiality and Mandatory Reporting of Sexual Violence or Harassment

The University of New Hampshire and its faculty are committed to assuring a safe and productive educational environment for all students and for the university as a whole. To this end, the university requires faculty members to report to the university’s Title IX Coordinator (Bo Zaryckyj, Bo.Zaryckyj@unh.edu, 603-862-2930/1527 TTY) or to the UNH Manchester/CPS Title IX Deputy Intake Coordinator (Lisa Enright, lis.a.enright@unh.edu 603-641-4336, Room 439) any incidents of sexual violence and harassment shared by students.

If you wish to speak to a confidential support service provider who does not have this reporting responsibility because their discussions with clients are subject to legal privilege, you can contact the SHARPP Center for Interpersonal Violence Awareness, Prevention, and Advocacy at (603) 862-7233/TTY (800) 735-2964. For more information about what happens when you report, how the university treats your information once a report is made to the Title IX Coordinator, your rights

and reporting options at UNH (including anonymous reporting options) please visit [student reporting options](#). The [uSafeUS app](#) is also available for students to keep reporting options and resources easily accessible on their phones.

Help us improve our campus and community climate. If you have observed or experienced an incident of bias, discrimination or harassment, please report the incident by contacting the Civil Rights & Equity Office at UNH.civilrights@unh.edu or TEL # (603) 862-2930 voice/ (603) 862-1527 TTY / 7-1-1 Relay NH, or [visit the CREO website](#). Anonymous reports may be submitted.

Confidential Support Resources for UNH Manchester:

- SHARPP Extended Services Coordinator for UNH Manchester- room 417. Available in person Mondays 9 am to 4 pm and by Zoom appointment year-round M-F.
- YWCA, NH – 603-668-2299(24hour), 72 Concord St. Manchester, NH
- The Mental Health Center of Greater Manchester: On campus mental health counselors are available by appointment during the academic year. Located in room 426.
- 24 Hour NH Sexual Violence Hotline: 1-800-277-5570
- 24 Hour NH Domestic Violence Hotline: 1-866-644-3574

Food Pantry

The UNH Manchester campus food pantry has non-perishable food items for students in room 437.

Course Schedule

Week 1: May 19th – 25th

- *Lecture:*
 - Introduction, Body Organization
 - Chemistry
 - Cell Biology
- *Lab:*
 - Language of anatomy
 - The microscope & cells
 - Cell transport & membrane permeability
 - Tissues (introduction)

Assignments:

- Complete introduction assignment
- Mastering A&P: Introduction, Biological Organization, Chemistry, Cell Biology
- Lab quizzes: Language of anatomy, The microscope & cells (10pts each)
- Virtual lab: Cell transport & membrane permeability (10pts)

Week 2: May 26th - June 1st

- *Lecture:*
 - Tissues
 - Integumentary System
- *Lab:*
 - Integumentary System

Assignments:

- Assessment on Week 1 topics (Introduction, Body Organization, Chemistry, Cell Biology)
- Mastering A&P: Tissues, Integumentary
- Lab quiz: Tissue Identification (20pts), Integumentary System (10pts)

Week 3: June 2nd – June 8th

- *Lecture:*
 - Skeletal System
 - Muscular System
 - Nervous System, part 1
- *Lab:*
 - Axial & Appendicular Skeleton
 - Skeletal muscle physiology

Assignments:

- Assessment on Week 2 topics (Tissues, Integumentary System)
- Mastering A&P: Skeletal System, Muscular System, Nervous System
- Lab quiz: Axial & Appendicular Skeleton identification (20pts)
- Virtual lab: Skeletal Muscle Physiology (10pts)

Week 4: June 9th – June 15th

- *Lecture:*
 - Nervous system (parts 2, 3, 4)
- *Lab:*
 - Muscle anatomy
 - Neurophysiology of Nerve Impulses

Assignments:

- **Assessment on Week 3 topics (Skeletal system, Muscular system, Nervous system part 1)**
- **Lab Quiz: Muscle anatomy (20pts)**
- **Virtual Lab: Neurophysiology of Nerve Impulses (10pts)**

Week 5: June 16th – June 20th

- *Lecture:*
 - No new lecture material
- *Lab:*
 - Brain & Spinal Cord
 - Reflexes & General Senses
 - Special Senses

Assignments:

- **Assessment on Week 4 topics (Nervous system parts 2-4)**
- **Mastering A&P: Nervous System**
- **Lab quizzes/Worksheets: Brain & Spinal Cord, Reflexes & General Senses, Special Senses (10pts each)**