

333333University of North Texas-Department of Biological Sciences- Fall 2026 Biology 2301.501: Human Anatomy and Physiology I

Class Meeting Time: Tuesday/Thursday 11:00 am-12:20pm

Class location: FRLD-310

Instructor Contact

Name: Dr.Bhanu Sharadha Nathan

Pronouns: She/Her

Hours in office and available to students: Tuesday and Thursday 10.30 to 11 am (with prior appointment)

Email: bhanusharadha.nathan@unt.edu

Course Prerequisites or Other Restrictions

Co-Requisites: Biol 2311.

No Prerequisites. Although there is no prerequisite for this course, some exposure to basic biological concepts, elementary chemical principles, and algebra is essential.

Materials

Textbook -Marieb Human Anatomy and Physiology , 12th Ed. With *Mastering* A & P Access. Hoehn, Haynes and Abbott. Pearson Publishers. 2024 with Lab Manual.

Course Objectives

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

1. State the basic physiological principles of the Cell, the Skin, the Skeletal system, the Muscular system, and the Nervous system.
2. Recognize and identify the basic gross and microscopic anatomical structures associated with the Human Tissue, Skin, Skeletal system, Muscular system and Nervous system.
3. State the interrelatedness of the major organ systems and how each organ system functions separately and as part of the integrated whole organism to maintain homeostasis.

Course Description

Functional anatomy and physiology of the human body including biological chemistry, cell morphology, membrane and tissue physiology, musculoskeletal system and the nervous system.

Biology 2301 is the first semester of a two-semester sequence in integrated human anatomy and physiology. The underlying theme of the course is the interrelationship between biological form and function. The course is designed to support a range of more advanced courses in kinesiology and the biomedical professions.

Course Structure

This course will be taught in a face-to-face format. The semester is 16 weeks long with the last week reserved for finals and pre-final and reading days. We will be covering 14 chapters. This works out to approximately one chapter per week. Some chapters will be given more time, others less. PowerPoint presentations and other materials for the course will be provided through [Canvas](#) (<https://unt.instructure.com/>). You will also have homework assigned through MyLab and Mastering. The homework is designed to reinforce concepts, provide review of material, and allow you to gauge your level of understanding. You will be working with a group in class to work through problems and to respond to in class questions using Lrnr. You will receive participation points for these in class activities and questions. If you will be missing class for a legitimate reason you will need to notify the instructor as soon as possible.

I will be using a combination of lecturing, problem solving, and low-stakes review questions with instant feedback. There will be a large amount of material to be memorized but the main goal of this course is for you to understand the interrelationships of the material and to be able to assemble these facts to answer application type of questions and problems. You will be responsible for keeping up with the reading and reviewing the material from each lecture. Each lecture will build on previous lectures.

Communication Expectations: The best method to contact me is through my UNT email. Emails need to include your complete name, the name of the course, and the section (Biol 2301.501). I will generally respond to messages within 24 hours (weekends and holidays excluded). Students encountering technical problems with course material, assignments, or quizzes/exams should contact me for assistance as early as possible before any due dates. If you do not contact me before the work is due, you may still be assessed grade penalties for late work. Communication from the instructor will come through Canvas through announcements or emails to your UNT email address. Please make sure you check your email account regularly as some communications may be time sensitive. Proper communication with your instructor and peers is important.

[Ways to communicate that support inclusion.](#)

I value the many perspectives students bring to our campus. Please work with me to create a classroom culture of open communication, mutual respect, and belonging. All discussions should be respectful and civil. Although disagreements and debates are encouraged, personal attacks are unacceptable. Together, we can ensure a safe and welcoming classroom for all. If you ever feel like this is not the case, please stop by my office and let me know. We are all learning together.

Course Requirements

Week/ Dates	Chapter/Reading/Material for Lecture	Assignments	Due Date
Wk 1 Aug 18 & 20	Ch. 1: The Human Body: An Orientation Homeostasis Chapter 2: Chemistry	Quiz 1: Course Intro	
Wk 2 Aug 25 & 27	Ch. 2: Chemistry cont. Atomic Structure and Enzyme Activity	-MyLab & Mastering Chapter 1 -MyLab & Mastering Chapter 2	
	Labor Day (University closed)		
Wk 3 Sep 01 & 03	Ch. 3: Cells: The Living Units		
Wk 4 Sep 08 & 10	Ch. 3: Cells: The Living Units (cont.) Movement Across the Cell Membrane Group Activity Transcription/Translation Group Activity	-MyLab & Mastering Chapter 3	Sep 14 at 11.59 pm
Wk 5 Sep 15 & 17	Exam 1: Chapters 1, 2, & 3 Ch. 4: Tissue: The Living Fabric	Exam 1: Chapters 1, 2 & 3 -MyLab & Mastering Chapter 4	
Wk 6 Sep 22 & 24	Ch. 5: The Integumentary System Burn Case Study	-MyLab & Mastering Chapter 5	
Wk 7 Sep 29 & Oct 01	Ch. 6: Bones and Skeletal Tissue	-MyLab & Mastering Chapter 6	
Wk 8 Oct 06 & 08	Ch. 8: Articulations	-MyLab & Mastering Chapter 8	Oct 12 at 11.59 pm
Wk 9 Oct 13 & 15	Exam 2: Chapters 4, 5, 6 & 8 Ch. 11: Nervous System and Nervous Tissue	Exam 2: Chapters 4, 5, 6 & 8	
Wk 10 Oct 20 & 22	Ch. 11: Nervous System and Nervous Tissue (cont.) Ch. 9: Muscles and Muscle Tissue (cont.)	- MyLab & Mastering Chapter 11	
Wk 11 Oct 27 & 29	Ch. 10: The Muscular System Muscle Physiology Group Assignment	-MyLab & Mastering Chapter 9 -MyLab & Mastering Chapter 10	Nov 02 at 11.59 pm
Wk 12 Nov 03 & 05	Exam 3: Chapters 9, 10 & 11 Ch. 12: Central Nervous System	Exam 3: Chapters 9, 10 & 11	
Wk 13 Nov 10 & 12	Ch. 12: Central Nervous System Cont. Ch. 13: Peripheral Nervous System	-MyLab & Mastering Chapter 12 -MyLab & Mastering Chapter 13	

Wk 14 Nov 17 & 19	Ch. 14: Autonomic Nervous System Ch 15: The Special Senses	-MyLab & Mastering Chapter 14 -MyLab & Mastering Chapter 15	Nov 30 at 11.59 pm
	Fall Break-No Classes		
Wk 15 Dec 01 & 03	Exam 4: Chapters 12-15 Pre-Finals Day Reading Day (No classes)		
Wk 16 Dec 08	FINAL EXAMINATIONS	Comprehensive	

* All MyLab and Mastering Assignments are due at 11:59pm.

**Exam dates or coverage is subject to change, with reasonable advance notice.

Assessing Your Work

Grading will follow a standard scale:

- A 100 - 90%
- B 89.9 - 80%
- C 79.9 - 70%
- D 69.9 – 60%
- F 59.9% and below

Your grade will be based on percentages divided between exams, assignments/quizzes, and group discussions/assignments. There will be 4 chapter exams for this course. All the chapter exams will count equally. All exams are to be taken in person. All exams will be derived from the material covered in lectures.

- Exams- 4 Chapter Exams (*The lowest exam score will be dropped.*) 60%
- Final Exam 15%
- MyLab and Mastering 15%
(15, lowest 2 will be dropped)
- In class participation/activities/(iClicker) LrnR 10%

There will be 4 Chapter exams and a comprehensive final exam. **There will be no make-up exams, except in case of excused absences recognized by the University of North Texas (observation of religious holiday, military service or wherein a student is representing the university in an official capacity such as athletics or band). Medical emergency may be considered but must be documented by a medical professional.** All exams will be derived from the material covered in lectures.

Extra credit/Bonus: 3 points per exam can be earned. These points will come from (Extra credit question / attendance). For the SPOT evaluation if 60% of the class participates 4 points will be added to the final exam grade.

Unauthorized Aids During Examinations and Assessments

Students may use only those materials and resources that are expressly authorized by the instructor for a particular examination or assessment. Touching, holding, or accessing any unauthorized aid during the examination period constitutes a violation of the Student Code of Conduct, regardless of whether the aid is used.

Any item that may be considered an unauthorized aid must be kept out of view and in a closed container (e.g. zipped backpack, buttoned purse, etc.) during the entirety of the examination or assessment.

Unless specifically authorized in writing by the instructor, prohibited aids include, but are not limited to:

- Mobile phones and smartphones
- Smartwatches and fitness trackers with communication, recording, or internet capabilities
- Tablets, laptops, and other computing devices
- Earbuds, headphones, and other audio devices
- Smart glasses, cameras, recording devices, and wearable technology
- Artificial intelligence (AI) tools, chatbots, and other generative AI technologies
- Notes, textbooks, study guides, formula sheets, or reference materials
- Any other device, material, or resource not expressly permitted by the instructor

Students are responsible for clarifying any questions about permitted materials before the examination begins.

Checking your grades each week is your responsibility. Check that grades have been recorded correctly and make sure you have submitted assignments on time. During the semester, if you think a grade is not correct, you have **5 days** from when the grade was posted on Canvas to appeal the grade with your instructor. **DO NOT EMAIL AT THE END OF THE SEMESTER ASKING FOR A GRADE CHANGE OR ASKING IF THERE IS ANY WAY TO RAISE YOUR GRADE.** Please start working day one for the grade you want in this course, not the last couple of weeks of the semester.

Grade changes will not be made except in the case of a mathematical error. **Grades will not be discussed through email per FERPA.**

Course Evaluation

Student feedback is important and an essential part of participation in this course. The student evaluation of instruction is a requirement for all organized classes at UNT. The survey will be made available during weeks 13, 14 and 15 of the long semesters to provide students with an opportunity to evaluate how this course is taught. Students will receive an email from "UNT SPOT Course Evaluations via IASystem Notification" (no-reply@iasystem.org) with the survey link. Students should look for the email in their UNT email inbox. Simply click on the link and complete the survey. Once students

complete the survey they will receive a confirmation email that the survey has been submitted. For additional information, please visit the [SPOT website](http://spot.unt.edu/) (<http://spot.unt.edu/>) or email spot@unt.edu.

Academic Success Resources

Course Policies

UNT strives to offer a high-quality education in a supportive environment where you can learn, grow, and thrive. As a faculty member, I am committed to supporting you, and I want to remind you that UNT offers a range of mental health and wellness services to help maintain balance and well-being. Utilizing these resources is a proactive way to support your academic and personal success. To explore campus resources designed to support you, check out [mental health services](https://clear.unt.edu/student-support-services-policies) (<https://clear.unt.edu/student-support-services-policies>), visit unt.edu/success, and explore unt.edu/wellness. To get all your enrollment and student financial-related questions answered, go to scrappysays.unt.edu.

Attendance/Participation

Students are expected to attend class meetings regularly and to abide by the attendance policy established for the course. It is important that you communicate with the professor prior to being absent, so you and the professor can discuss and mitigate the impact of the absence on your attainment of course learning goals. Please inform the professor if you are unable to attend class meetings because you are ill, in mindfulness of the health and safety of everyone in our community.

Class participation will be based on the Lnr, (QR code) attendance and participation in class.

Late Work

Late work will not be accepted, therefore, do not wait until the last minute to submit MyLab and Mastering assignments.

Zeros will automatically be recorded for any online assignments not completed before the due date/time.

Examination Policy

For exams you will be using a scantron, which will be provided to you. You will need to bring a #2 pencil to take the exam. Exams taken using an ink pen will not be accepted. You are responsible for marking the scantron correctly. You may not utilize notes, electronic devices, or assistance from others on the exams; any exceptions to this will be announced in class and will be put in the Announcements in Canvas.

Assignment Policy

MyLab and Mastering assignments will be accessed through Canvas. You must have the online access from Pearson. The due dates for MyLab and Mastering assignments can be found in the schedule above and in the MyLab and Mastering Calendar, and assignment page. These assignments are due at 11:59pm the night before the exam for that chapter. The exception is for the final; these assignments are due before final week begins.

The University is committed to providing a reliable online course system to all users. However, in the event of any unexpected server outage or any unusual technical difficulty which prevents students from completing a time sensitive assessment activity, the instructor will extend the time windows and provide an appropriate accommodation based on the situation. Students should immediately report any problems to the instructor and contact the UNT Student Help Desk: helpdesk@unt.edu or 940.565.2324 and obtain a ticket number. The instructor and the UNT Student Help Desk will work with the student to resolve any issues at the earliest possible time.

Instructor Responsibilities and Feedback

I am here to guide you through the material for this course, to provide clarification and help you to use the facts to answer complex questions and apply them to real world problems. I am here to help you. Please utilize office hours, ask question in class, and email me with questions or concerns.

MyLab and Mastering assignments are instantly updated in the gradebook. Exams grades will be posted within a week of the exam. The best learning experience is to review your exam and look at questions you missed. You can review your exam during office hours. Bonus points and participation points may take up to two weeks to be posted.

Syllabus Change Policy

This syllabus provides a plan for the execution of this course; however, because of potential unforeseen events or opportunities, the instructor reserves the right make some reasonable adjustments in the schedule of topics, the material covered, or other aspects of this course. Any changes to the schedule or syllabus will be announced in class and posted in announcements.

Course Technology & Skills

Minimum Technology Requirements

The minimum technology requirements for needed for this course are:

- Computer
- Reliable internet access
- Speakers
- Microphone
- Plug-ins
- Microsoft Office Suite
- [Canvas Technical Requirements](https://clear.unt.edu/supported-technologies/canvas/requirements) (<https://clear.unt.edu/supported-technologies/canvas/requirements>)

Computer Skills & Digital Literacy

Technical skills learners must have to succeed in the course:

- Using Canvas
- Using email with attachments
- Downloading and installing software
- Using presentation and graphics programs

Technical Assistance

Part of working in the online environment involves dealing with the inconveniences and frustration that can arise when technology breaks down or does not perform as expected. Here at UNT we have a Student Help Desk that you can contact for help with Canvas or other technology issues.

UIT Help Desk: [UIT Student Help Desk site](http://www.unt.edu/helpdesk/index.htm) (<http://www.unt.edu/helpdesk/index.htm>)

Email: helpdesk@unt.edu

Phone: 940-565-2324

In Person: Sage Hall, Room 130

Walk-In Availability: 8am-9pm

Telephone Availability:

- Sunday: noon-midnight
- Monday-Thursday: 8am-midnight
- Friday: 8am-8pm
- Saturday: 9am-5pm

Laptop Checkout: 8am-7pm

For additional support, visit [Canvas Technical Help](https://community.canvaslms.com/docs/DOC-10554-4212710328) (<https://community.canvaslms.com/docs/DOC-10554-4212710328>)

UNT Policies

Academic Integrity Policy

Academic Integrity Standards and Consequences. According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University.

ADA Policy

The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking reasonable accommodation must first register with the Office of Disability Access (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with a reasonable accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request reasonable accommodations at any time; however, ODA notices of reasonable accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of reasonable accommodation for every semester and must meet with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of reasonable accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information, refer to the [Office of Disability Access website](http://www.unt.edu/oda) (<http://www.unt.edu/oda>). You may also contact ODA by phone at (940) 565-4323.

Emergency Notification & Procedures

UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). In the event of a university closure, please refer to Canvas for contingency plans for covering course materials.

Retention of Student Records

Student records pertaining to this course are maintained in a secure location by the instructor of record. All records such as exams, answer sheets (with keys), and written papers submitted during the duration of the course are kept for at least one calendar year after course completion. Course work completed via the Canvas online system, including grading information and comments, is also stored in a safe electronic environment for one year. Students have the right to view their individual record; however, information about student's records will not be divulged to other individuals without proper written consent. Students are encouraged to review the Public Information Policy and the Family Educational Rights and Privacy Act (FERPA) laws and the University's policy. See UNT Policy 10.10, Records Management and Retention for additional information.

Acceptable Student Behavior

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Dean of Students to consider whether the student's conduct violated the Code of Student Conduct. The University's expectations for student conduct apply to all instructional forums, including University and electronic classroom, labs, discussion groups, field trips, etc. Visit UNT's [Code of Student Conduct](https://deanofstudents.unt.edu/conduct) (https://deanofstudents.unt.edu/conduct) to learn more.

Access to Information - Eagle Connect

Students' access point for business and academic services at UNT is located at: my.unt.edu. All official communication from the University will be delivered to a student's Eagle Connect account. For more information, please visit the website that explains Eagle Connect and how to forward e-mail [Eagle Connect](https://it.unt.edu/eagleconnect) (https://it.unt.edu/eagleconnect).

Class Recordings & Student Likenesses

Class recordings are the intellectual property of the university or instructor and are reserved for use only by students in this class and only for educational purposes. Students may not post or otherwise share the recordings outside the class, or outside the Canvas Learning Management System, in any form. Failing to follow this restriction is a violation of the UNT Code of Student Conduct and could lead to disciplinary action.

Artificial Intelligence and Academic Integrity

In this course, you are encouraged to use Generative AI (GenAI) tools such as ChatGPT, to support your learning and develop skills for a GenAI-oriented workforce. This use will help us stay technically proficient and ethically grounded. However, GenAI should complement, not replace, your critical thinking or our course materials. If something seems unclear, please seek clarification. I use GenAI to

enhance materials, and create scenarios, I will always disclose how I use GenAI, and I expect the same from you. In line with the UNT Honor Code, all work you submit must be your own. Using GenAI tools without attribution or relying on them to complete assignments violates academic integrity and will be addressed according to university policy.