



Biol 2401 – Anatomy & Physiology I F2F

Course Syllabus: Fall 2026

"Northeast Texas Community College exists to provide personal, dynamic learning experiences empowering students to succeed."

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Weekday	Office Hours
Monday	8:00 AM – 9:30AM
Tuesday	8:00 AM – 9:30AM
Wednesday	8:00 AM – 9:30AM
Thursday	8:00 AM – 9:30AM
Friday	8:00 AM – 9:30AM

This syllabus serves as the documentation for all course policies and requirements, assignments, and instructor/student responsibilities.

Information relative to the delivery of the content contained in this syllabus is subject to change. Should that happen, the student will be notified.

Course Description:

4 credit hours. Lecture/Lab/Clinical: Three hours of lecture and three hours of lab each week.

Prerequisite(s): TSI complete in reading and writing. Anatomy and Physiology I is intended for students entering a field of study in health sciences or kinesiology. This course is the first semester of a two-semester sequence and includes a study of basic cell biology, histology, the integument, skeletal, muscular and nervous systems. Animal dissection is a required component of laboratory activity in both face-to-face and online format. Successful completion of BIOL 2401 with a C or better allows the student to continue to BIOL 2402.

Prerequisite(s): None

Student Learning Outcomes:

Upon successful completion of this course, students will:

1. Use anatomical terminology to identify and describe locations of major organs of each system covered.
2. Explain interrelationships among molecular, cellular, tissue, and organ functions in each system
3. Describe the interdependency and interactions of the systems.
4. Explain contributions of organs and systems to the maintenance of homeostasis.
5. Identify causes and effects of homeostatic imbalances.
6. Describe modern technology and tools used to study anatomy and physiology.
7. Apply appropriate safety and ethical standards
8. Locate and identify anatomical structures.
9. Appropriately utilize laboratory equipment, such as microscopes, dissection tools, general lab ware, physiology data acquisition systems, and virtual simulations.

10. Work collaboratively to perform experiments.
11. Demonstrate the steps involved in the scientific method
12. Communicate results of scientific investigations, analyze data and formulate conclusions.
13. Use critical thinking and scientific problem-solving skills, including, but not limited to, inferring, integrating, synthesizing, and summarizing, to make decisions, recommendations and predictions.

Core Curriculum Purpose and Objectives:

Through the core curriculum, students will gain a foundation of knowledge of human cultures and the physical and natural world; develop principles of personal and social responsibility for living in a diverse world; and advance intellectual and practical skills that are essential for all learning.

Courses in the foundation area of life and physical sciences focus on describing, explaining, and predicting natural phenomena using the scientific method. Courses involve the understanding of interactions among natural phenomena and the implications of scientific principles on the physical world and on human experiences.

College Student Learning Outcomes:

Critical Thinking

Skills CT.1

Students will demonstrate the ability to 1) analyze complex issues, 2) synthesize information, and 3) evaluate the logic, validity, and relevance of data.

Communication Skills

CS.1

Students will effectively develop, interpret and express ideas through written communication.

Empirical and Quantitative Skills

EQS.1

Students will manipulate numerical data or observable facts by organizing and converting relevant information into mathematical or empirical form.

EQS.2

Students will analyze numerical data or observable facts by processing information with correct calculations, explicit notations, and appropriate technology.

Team Work

TW2. Students will work with others to support and accomplish a shared goal.

Evaluation/Grading Policy:

The breakdown of the course requirements is as follows:

75%	Lecture Weighted
30%	Exams
20%	Final
10%	SLO

13%	Assignments/Quiz
2%	Attendance

25%	Lab Weighted
25%	Lab Exercise/Quiz
80%	Lab Practical's

Lab Policies: Lab practical's are mandatory and cannot be missed for any reason; no make-ups will be provided. Students may not begin lab exercises before class officially starts. All lab work must be completed during the scheduled lab period and must be turned in before leaving the lab. Late submissions will not be accepted. Students must stay in laboratory for a minimum of one hour.

No phone or computer use is allowed during lab. If a student needs to make a call or send a text, they must step outside the lab room.

Points will be deducted from the lab average for the following:

- Lab tables not properly cleaned
- Microscopes not correctly put away
- Slides not returned to the correct trays
- Lab papers not stapled, not in numerical order, or with edges improperly cut

Students are expected to maintain a clean and organized workspace and submit lab materials in proper format to avoid penalties.

LABORATORY ATTIRE:

No shorts, short skirts, sleeveless shirts, loose clothing, bare midriffs, low tops, open-toed shoes or sandals will be allowed in the laboratory. Proper lab attire is always required, which includes clothing that covers upper arms, legs, thorax and abdomen. Long hair should be tied back to avoid getting it into the dissection field. Students who do not meet proper laboratory attire will not be allowed to participate in lab and will receive a zero for all labs work due and assigned to be done in the lab that day.

Late lab exercises may not be turned in. If you miss lab, you will receive a zero for that exercise.

Semester grades will be earned as follows

Percentage	Letter Grade
90% and above	A
80 %–89%	B

70 %–79%	C
60%–69 %	D
59.9% and below	F

Quizzes, Assignments, and Attendance Policy:

Students must be physically present in class to take quizzes—no make-up quizzes will be offered. Attendance will be taken at a random time during class, and students must be present for the entire session to receive credit. Each student is allowed one extension for a quiz or assignment during the semester. After that, any late or missed work will receive a zero, with no additional extensions granted. Bonus points may be randomly awarded based on performance in various class tasks. Students must be present to receive any bonus points.

Required Instructional Materials:

Lecture: Hole's Human Anatomy & Physiology Digital Text w/Evergreen Connect Author: *Shier*
 Publisher: **McGraw Hill Connect** ISBN Number: **ISBN: 9781264262830**

Lab: **Laboratory: Laboratory Man F/Human Anatomy & Physiology: Cat & Pig** Author: *Prentice-Craver* **ISBN 9781266677656** Publisher: MCG Release 2025

PLEASE NOTE: *Lab Manuals CANNOT be rented from a third party. Each student MUST have a consumable lab book from which pages can be torn out and submitted for grading if instructed to do so. This means that absolutely NO copies can be submitted as it violates copyright laws.*

Minimum Technology Requirements:

Laptop or computer with webcam, access to daily internet, Microsoft Office

Required Computer Literacy Skills:

Ability to use a web browser to access NTCC Blackboard System for course information, eBook and Connect assignments.

Ability to access NTCC student email system and communicate professionally and competently with instructor.

Ability to create and complete Word documents, save on your computer and upload into Bb assignment links.

Institutional/Course Policy:

Student Responsibilities/Expectations:

Northeast Texas Community College is a “community of scholars.” Please remember that you and all students in this class are pursuing very important goals in your lives. As scholars, I expect every student to be courteous to other students, the teaching assistants, and the instructor in both lecture and laboratory experiences.

It is a student’s responsibility to withdraw by that date if they cannot complete the course. The last day to drop with a “W” is **November 17th 2026**

Alternate Operations During Campus Closure and/or Alternate Course Delivery Requirements:

In the event of an emergency or announced campus closure due to a natural disaster or pandemic, it may be necessary for Northeast Texas Community College to move to altered operations. During this time, Northeast Texas Community College may opt to continue delivery of instruction through methods that include, but are not limited to, online through the Blackboard Learning Management System, online conferencing, email messaging, and/or an alternate schedule. It is the responsibility of the student to monitor NTCC's website (<http://www.ntcc.edu/>) for instructions about continuing courses remotely, Blackboard for each class for course-specific communication, and NTCC email for important general information.

Additionally, there may be instances where a course may not be able to be continued in the same delivery format as it originates (face-to-face, fully online, live remote, or hybrid). Should this be the case, every effort will be made to continue instruction in an alternative delivery format. Students will be informed of any changes of this nature through email messaging and/or the Blackboard course site.

Statement Regarding the Use of Artificial Intelligence (AI) Technology:

Employees and students shall be permitted to explore artificial intelligence (AI) and implement its use in and out of the classroom in accordance with policy and administrative regulations. The use of AI shall only be as a support tool to enhance student outcomes or as necessary to engage in research and shall never take the place of faculty, staff, and student decision-making. Any use of AI must comply with law, policy, and administrative regulations relating to student and employee privacy and data security. A student shall only use AI tools with faculty permission and shall be expected to produce original work and properly credit sources, including AI tools used in creating the work.

Example:

APA (7th edition)

OpenAI. (2026). ChatGPT (March 25 version) [Large language model]. <https://chat.openai.com/>

MLA (9th edition)

OpenAI. ChatGPT. 25 Mar. 2026, <https://chat.openai.com/>.

Employees or students who use AI tools to deceptively harm, bully, or harass others shall be disciplined in accordance with policy. [See DH, DIA series, FFD series, FFE, FLB, and the FM series] AI Use by Employees and Students. Northeast Texas Community College 225500 TECHNOLOGY RESOURCES CRB ARTIFICIAL INTELLIGENCE (LOCAL) DATE ISSUED: 12/8/2025 1 of 1 UPDATE 50 CRB(LOCAL)-AJC Adopted: 12/16/2025

NTCC Academic Honesty/Ethics Statement:

NTCC upholds the highest standards of academic integrity. The college expects all students to engage in their academic pursuits in an honest manner that is beyond reproach using their intellect and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. This course will follow the NTCC Academic Honesty and Academic Ethics policies stated in the Student Handbook. Refer to the student handbook for more information on these subjects.

ADA Statement:

It is the policy of NTCC to provide reasonable accommodation for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodation as required to afford equal educational opportunity. It is the student's responsibility to request accommodation. An appointment can be made with the Academic Advisor/Coordinator of Special Populations located in Student Services and can be reached at 903-434-8264. For more information and to obtain a copy of the Request for Accommodations, please refer to the special populations page on the NTCC website.

Family Educational Rights and Privacy Act (FERPA):

The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.

Tentative Course Schedule:

Week 1- Intro to A&P, & Chapter 1: Anatomical Terminology
Week 2- Chapter 2 Chemistry Basic and Life
Week 3- Chapter 3, Cells
Week 4- Chapter 5 Tissues
Week 5- Chapter 6, Integumentary System
Week 6- Chapter 7 Skeletal System
Week 7- Chapter 8: Joints of the Skeletal System
Week 8- Chapter 9, Muscular System: Axial & Appendicular Muscles
Week 9- Chapter 9, Muscular System: Continued
Week 10- Chapter 10: Nervous Sys: Tissue
Week 11- Chapter 10: Nervous System: Nervous Tissue cont
Week 12- Chapter 11: Nervous System: Brain & Cranial Nerves
Week 13- Chapter 12: Nervous System: Spinal Cord & Spinal Nerve