Biol 2404 – Survey of Anatomy & Physiology

Course Syllabus: Summer of 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 online
Tuesday	8:00 AM – 9:30AM online
Wednesday	8:00 AM – 9:30AM online
Thursday	8:00 AM – 9:30AM online
Friday	8:00 AM – 9:30AM online

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 hour credit course: Survey of Anatomy & Physiology is a single-semester survey course covering the structure and function of the human body. Major topics include cell structure and function, tissues and organ systems including neuroendocrine, integumentary, musculoskeletal, digestive, circulatory, respiratory, urinary and reproductive systems. The course cannot replace BIOL 2401 or 2402 but can be used as a preparation for BIOL 2401 or the preparation for certain certificate programs or as a nonmajor science elective. Some dissection is a required component of laboratory activities
Prerequisite(s): None

Student Learning Outcomes:

Upon successful completion of this course, students will:

1. Define anatomy and physiology, explain the importance of the relationship between structure and function and be able to describe directional terms and anatomical positions.
2. Explain the major characteristics and functions of the human cell including movement of materials and cell division
3. Describe the general structure and function of major tissues and of the integumentary system.
4. Summarize the major characteristics and functions of the skeletal system. Be able to identify the bones of the human skeleton.
5. Summarize the major characteristics and functions of skeletal, smooth and cardiac muscle. Be able to identify the superficial muscles of the human body.
6. Describe the general structure and function of the central and peripheral nervous system. 7. Summarize the general characteristics of the endocrine system.
8. Name the major organs and the general functions of the cardiovascular system.
9. Name the major organs of the respiratory system and describe the general functions.
10. Name the major organs of the digestive system and describe the general functions.
11. Name the major organs of the urinary system and describe the general functions

12. Name the major organs of the male and female reproductive systems and describe the general functions of each organ.
13. Communicate results of scientific investigations, analyze date and formulate conclusions using critical thinking and scientific problem-solving skills.

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:

	Weighted
40%	Exams
20%	Final
15%	Assignments/Quiz

	Lab
25%	Lab Exercise/Quiz/Practica

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:

Homework is assigned using McGraw Hill CONNECT. Each assignment or quiz will be due at a specific time in the semester related to the lecture schedule.
There are 5 unit tests. They will consist of Multiple Choice, True/False, and short answer type questions. Questions will be based over the chapters covered in that specific unit.
Lockdown and proctorio will be used for unit exams and lab practicals. No outside testing center will be used.
There are 2 lab practical exams. They will consist of Multiple Choice, True/False, and short answer type questions. Questions will be based on the labs that you have completed up until that point.
The final exam will consist of 100 questions. Failure to take the final exam will result in a grade of "F" for the course.
The last day to drop the course with a grade of W is July 30th, 2026. If circumstances require you to withdraw from this course, you must do so by that date. It is the student's responsibility to initiate the withdrawal with the registrar's office. Failure to officially withdraw will result in your receiving a grade of F.

Required Instructional Materials:

Lecture: **Anatomy, Physiology, & Disease eBook w/Connect Access + Proctorio**
Author: Roger Editon: 3rd
Publisher: **McGraw Hill Connect** ISBN Number: **ISBN: 9781266031328**

Laboratory: Carolina Biological Survey of Anatomy Lab Kit Voucher *ISBN* 2800929728935
This is a lab kit ACCESS CODE and will be EMAILED to you, which you will redeem for the physical lab kit – to be shipped from the distribution center. Order ASAP – takes 5-10 business days from redemption date to receive the physical kit.

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.

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:

Unit 1: Chapters 1, 2, 3
Unit 1 Exam
Unit 2: Chapters 4, 5, 6, 7
Unit 2 Exam
Unit 3: Chapters 8, 9, 10
Unit 3 Exam and Lab Practical 1
Unit 4: Chapters 11, 12, 13
Unit 4 Exam
Unit 5: Chapters 14, 15, 16 Exam
Final and Lab Practical 2