



BIOL 2401 Anatomy & Physiology I

Course Syllabus:

"Northeast Texas Community College exists to provide responsible, exemplary learning opportunities."

Dr. Kathy Carter

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Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
	4:30pm – 5:00pm	9:30am – 11:00am 3:00pm – 5:00pm	4:30pm – 5:00pm	9:30am – 11:00am 3:00pm – 5:00pm	By appointment	kcarter@ntcc.edu

The information contained in this syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.

Catalog 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 on to [BIOL 2402](#).

Required Textbook(s): Lecture: **ANATOMY & PHYSIOLOGY: AN INTEGRATIVE APPROACH (VIA EXCLUSIVE ACCESS W/DIGITAL TEXT & CONNECT)** Author: *McKinley* Edition 3 McGraw-Hill

Exclusive Access: We have negotiated with the Publisher to obtain a discounted price for your lecture course materials. Your ebook and Connect Access Code are included with your tuition and will be available through Blackboard on the first class day. The materials are required for your class and essential in your success. If you also determine that you would like a print copy of your text in addition to your exclusive access, loose-leaf copies will be available in the College Store at a discounted price. You may opt out of purchasing your materials from the College Store through the Census Date for the course. If you choose to opt out you will be responsible for purchasing your Connect Access Code from another vendor. You will receive a refund for the Exclusive Access if you opt out.

Laboratory: ANATOMY & PHYSIOLOGY: AN INTEGRATIVE APPROACH LAB MANUAL (FETAL PIG VERSION) McKinley (Eckel) ISBN: 9781260262544 2ND Edition

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.*

Recommended Reading(s): Chapters 1 through 16 in the textbook

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.

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 nature of a human cell.
3. Describe the general make-up of a tissue and be able to recognize the primary tissue types and examples of each type.
4. Describe the general structure and function of the integumentary system.
5. Describe the general structure and function of the skeletal system inclusive of joints.
6. Summarize the major characteristics and functions of skeletal, smooth and cardiac muscle. Be able to identify the major superficial muscles of the human body.
7. Describe the general structure and function of the nervous system including special senses.
8. Communicate results of scientific investigations, analyze data and formulate conclusions using critical thinking and scientific problem-solving skills.

Lectures & Discussions:

Week 1- Intro to A&P, & Chapter 1: Anatomical Terminology

Week 2- Chapter 1 cont., Chapter 4: Biology of the Cell

Week 3- Chapter 4, cont.; Chapter 5: Tissue Organization

Week 4- Chapter 5, cont; Chapter 6: Integumentary System

Week 5- **LECTURE EXAM 1: MON/TUES SEPT 24/25**; Chapter 7: Skeletal System: Bone Structure & Function

Week 6- Chapter 7, cont; Chapter 8: Axial & Appendicular Skeleton;

Week 7- Chapter 9: Articulations

Week 8- **LECTURE EXAM 2: MON/TUES OCT 15/16**; Chapter 10: Muscle Tissue

Week 9- Chapter 10, cont.; Chapter 11: Muscular System: Axial & Appendicular Muscles

Week 10- Chapter 11, cont.

Week 11- **LECTURE EXAM 3: MON/TUES NOV 5/6**; Chapter 12: Nervous System: Nervous Tissue

Week 12- Chapter 13: Nervous System: Brain & Cranial Nerves

Week 13- Chapter 14: Nervous System: Spinal Cord & Spinal Nerves; **Thanksgiving**

Week 14- Chapter 15: Nervous System: Autonomic Nervous System; Chapter 16: Nervous System: Senses

Week 15- Chapter 16, cont.; **LECTURE EXAM 4: WED/THURS DEC 5/6**

Week 16- FINAL EXAM (Comprehensive): Date and Time to be determined

Please NOTE: Lecture and/or Lab Schedule and/or Lecture and/or Exam Schedule are subject to change.

EVALUATION/GRADING POLICY:

OVERALL COURSE GRADE WEIGHTED AS FOLLOWS: Lecture = **75%**; Lab = **25%**

LECTURE –

EXAMS: **60%** of Overall Course Grade

4 Lecture Exams = **40%** of Overall Course Grade

FINAL EXAM (Comprehensive) = **20%** of Overall Course Grade

ASSIGNMENTS: (CONNECT LearnSmart and Homework Tutorials): **15%** of Overall Course Grade

LABORATORY –

Average of Lab Report/Exercise Grades and Weekly Lab Quizzes = **20%** of Overall Lab Grade

Lab Practical Exam Avg (4 Exams) = 80% of Overall Lab Grade

NOTE: Lab Practical Exams will be Fill In The Blank.

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 required at all times, 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 not meeting proper laboratory attire will not be allowed to participate in lab and will receive a zero for all lab work due and assigned to be done in the lab that day.

NTCC Academic Honesty Statement:

"Students are expected to complete course work in an honest manner, using their intellects and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. NTCC upholds the highest standards of academic integrity. This course will follow the NTCC Academic Honesty policy stated in the Student Handbook."

Academic Ethics

The college expects all students to engage in academic pursuits in a manner that is beyond reproach. Students are expected to maintain complete honesty and integrity in their academic pursuit. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. Refer to the student handbook for more information on this subject.

ADA Statement:

It is the policy of NTCC to provide reasonable accommodations 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 accommodations as required to afford equal educational opportunity. It is the student's responsibility to request accommodations. An appointment can be made with Shannin Garrett, Academic Advisor/Coordinator of Special Populations located in the College Connection. She can be reached at 903-434-8218. For more information and to obtain a copy of the Request for Accommodations, please refer to the [NTCC website - Special Populations](#).

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.