



## 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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**Email:** [kcarter@ntcc.edu](mailto:kcarter@ntcc.edu)

Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
	4:30pm – 5:00pm	9:30am – 11:00am  1:30pm – 5:00pm	4:30pm – 5:00pm	9:30am – 11:00am  1:30pm – 5:00pm	By appointment	<a href="mailto:kcarter@ntcc.edu">kcarter@ntcc.edu</a>

*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: ):** Anatomy & Physiology I is intended for students entering field of study in allied health sciences, social work, physical therapy, physical education or any student who needs a basic understanding of the structure and function of the human body. 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. Three hours of lecture and three hours of lab each week.

**Required Textbook(s): Lecture: SHIER/Hole's Human Anatomy & Physiology Printed Text W/Connect**

*Shier* Binding Shrink Wrapped Copyright 16 Edition 14 McGraw-Hill ISBN 1-2596-2126-X

**(Make sure it has the CONNECT SOFTWARE WITH IT!)**

-OR

**SHIER/Hole's Human Anatomy & Physiology Digital Text W/Connect**

*Shier* Binding None Copyright 16 Edition 14 ISBN 1-2592-9567-2

**Laboratory: \_Martin Laboratory Manual For Human A&P: Fetal Pig Version W/Phils 4.0 Access Card**

*Martin* Binding None Copyright 12 ISBN 0-07-758317-5

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

**Recommended Reading(s):** Chapters 1 through 11 in the textbook

## 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.

## Lectures & Discussions:

Week 1-	Chapter 3: Cells and Cell Cycle
Week 2-	Chapter 3, cont.; Chapter 4: DNA Replication
Week 3-	Chapter 5: Epithelial, Connective, Muscle, & Nervous Tissue
Week 4-	Chapter 5: Epithelial, Connective, Muscle, & Nervous Tissue
Week 5-	Chapter 6: Integumentary System;
Week 6-	<b>Lecture Exam 1</b> ; Chapter 7: Skeletal System
Week 7-	Chapter 7: Skeletal System
Week 8-	Chapter 8: Joints
Week 9-	<b>Lecture Exam 2</b> ; Chapter 9: Muscles
Week 10-	Chapter 9, cont.
Week 11-	Chapter 9, cont.; <b>Lecture Exam 3</b>
Week 12-	Chapter 10: Nervous System
Week 13-	Chapter 10 & 11: Spinal Cord, Meninges, Reflexes, Brain, Peripheral Nervous System
Week 14-	Chapter 12: Senses; <b>Thanksgiving</b>
Week 15-	Chapter 12, cont.; <b>Lecture Exam 4</b>
<b>Week 16-</b>	<b>FINAL EXAM (Comprehensive): Date and Time to be determine</b>

**\*Please NOTE: Lecture and/or Lab Schedule and/or Exam Schedule (Lecture and/or Lab) subject to change.**

## **EVALUATION/GRADING POLICY:**

**COURSE GRADE IS WEIGHTED AS FOLLOWS: Lecture = 75% OF OVERALL GRADE & LAB IS 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: 15% of Overall Course Grade**

**LECTURE:** Learn Smart and Connect Homework Tutorials = **15% of Overall Course Grade**

**Laboratory: 25% of Overall Course Grade** (Lab Report Avg + weekly Lab Quizzes = 20% of Overall Lab Grade; Lab Practical Exam Avg {4 Exams} = 80% of Overall Lab Grade)

### **LABORATORY: 25% of Overall Course Grade**

1. Avg of Weekly Lab Quizzes and Lab report grades = **20%**
2. Avg of 4 Lab Practicals = **80%**

You will take 4 Lab Practical Exams during the semester. The average of these 4 Lab Practical Exam grades will represent 80% of your Overall Lab Grade. **Lab Practical Exams will be Fill In The Blank.**

### **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.