



BIOL 2402.051 Anatomy & Physiology II

Course Syllabus: Spring 2026

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

NORTHEAST
COMMUNITY CO

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| Office Hours | Monday | Tuesday | Wednesday | Thursday | Friday | Online |
|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| PM | 2:00-2:45 pm | 2:00-2:45 pm | 2:00-2:45 pm | 2:00-2:45 pm | 2:00-2:45 pm | Email anytime |

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.

Course Description: BIOL 2402 Anatomy & Physiology II

Anatomy and Physiology II is the second part of a two-course sequence. It is a study of the structure and function of the human body including the following systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics). Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Animal dissection is a required component of laboratory activity

Inclusive 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 (use the link found on the Bb course homepage). 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 inclusive 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 Inclusive Access if you opt out.

Required Textbook(s):

Biol 2402 Access Code Shier's A&P McGraw Connect Inclusive, Publisher McGraw Digital Content - Optional: Print Upgrade: Hole's Human Anatomy & Physiology Shier Copyright 19 Publisher McGraw Edition 16 Binding Looseleaf

Minimum Technology Requirements:

Laptop or computer with webcam using **Chrome browser and Proctorio extension**

Access to high speed daily internet

Microsoft Office 365 (available as a free download for all NTCC students)

Calculator such as TI-30Xa or equivalent. No programmable calculators or cell phones are allowed on exams.

Required Computer Literacy Skills:

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

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.

Required Lab Kit:

A&P II Carolina Distance Learning Lab Kit # 581875 Winnsboro High School will be ordering your kit as soon as possible prior to the start of the semester so you will be prepared to begin the lab activities on time. You will be working with a partner in lab so there will be 1 kit per two students. See additional information under Evaluation/Grading Policy. Don't hesitate to communicate with me about this.

Publisher: McGraw-Hill

ISBN Numbers: ISBN 9781260572148 (this is the optional loose leaf upgrade for the text)

Recommended Reading(s): Chapters 12-24 in the textbook

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:

1. Explain the nature of the endocrine system.
2. Describe the characteristics and functions of blood.
3. Discuss the major structures and functions of the organs of the cardiovascular system.
4. Describe the major structures and general functions of the lymphatic system and immunity.
5. Name the major organs of the digestive system and describe the general functions.
6. Name the major organs of the respiratory system and describe the general functions.
7. Discuss the major structures and functions of the urinary system including water and electrolyte balance.
8. Describe the major structures and functions of the male and female reproductive systems.
9. Explain interrelationships among molecular, cellular, tissue, and organ functions in each system and the interdependency of the systems.

10. Explain contributions of organ systems to the maintenance of homeostasis and the causes of effects of homeostatic imbalances.
11. Communicate results of scientific investigations, analyze data and formulate conclusions using critical thinking and scientific problem-solving skills.

Lectures & Discussions: Just a short description of each week's topic

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| Week 0- | Chapter 12 |
| Week 1- | Chapter 13 |
| Week 2- | Chapter 14 |
| Week 3- | Chapter 15 |
| Week 4- | Test 1 (Chps. 12-15) |
| Week 5- | Chapter 16 |
| Week 6- | Chapter 17 |
| Week 7- | Chapter 18 |
| Week 8- | Test 2 (Chps. 16-18) |
| Week 9- | Chapter 19 |
| Week 10- | Chapter 20 |
| Week 11- | Chapter 21 |
| Week 12- | Test 3 (Chps. 19-21) |
| Week 13- | Chapter 22 |
| Week 14- | Chapter 23 |
| Week 15- | Chapter 24 Test 4 (Chps. 22-24) |
| FINAL WEEK-FINAL EXAM (Chps. 12-24) | |

Lab Practicals :

- Practical #1- After Completion of Chapters 12-18
- Practical #2- After Completion of Chapters 19-24

Evaluation/Grading Policy:

Lecture Average 80% of final course grade

Lab Average 20% of final course grade

The "lecture" component of this course will consist of online homework/quizzes through McGraw-Hill Connect and examinations with the following weight in calculating final lecture average:

20% Connect assignments

25% Tests 1-4

25% Final Exam

10% SLO's (Student Learning Outcomes, 1 per unit, 4 total)

The "lab" component of this course will consist of lab activities, reports, and lab practicals:

10% Lab Reports

10% Lab Practicals

Other Course Requirements:

This is Dual Credit course in Anatomy and Physiology. Lecture and laboratory will be face to face, and assignments will be delivered through the Blackboard Learning Management System at NTCC, as well as in class assignments. Students should ensure that they have the appropriate hardware, software, and technical skills for completing all assignments. All exams will be given in class not on blackboard. Be sure to read the contents of the "START HERE" folder in Blackboard so that you fully understand all additional course requirements. If you have not taken a course in Blackboard at NTCC before, it is recommended that you review the basic Blackboard Skills of submitting assignments. These tutorials can be found on the Student Resources tab under Blackboard Assistance as well as in the Important technical requirements, information and support folder found in "START HERE". Contact me with any questions you may have.

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, in both lecture and laboratory experiences. It is expected that you will adhere to all college and school district policies on academic honesty. The last day to drop with a "W" is Tuesday, November 19, 2019. It is a student's responsibility to withdraw by that date if they are not able to complete the course.

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 the Academic Advisor/Coordinator of Special Populations located in the College Connection. Please call: 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.