

BIOL 2402.088 Anatomy and Physiology 2, Online

Course Syllabus: Spring 2020



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

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Office	Monday	Tuesday	Wednesday	Thursday	Friday	Online
Hours	11 – 12:30 1:30 – 4:30	9 - 11	11 – 12:30	9 - 11		via NTCC email

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.

Catalog Course Description (include prerequisites):

4 credit hours.

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. Systems to be studied include endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics).

Prerequisite: BIOL 2401 (Anatomy and Physiology I).

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.

4. Team Work

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

Student Learning Outcomes:

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.

Animal dissection is a required element of the laboratory component.

Evaluation/Grading Policy:

Lecture Average 75% of final course grade

Homework/Quizzes 10%

Unit Exams 15%

Midterm 25%

Final 25%

Lab Average 25% of final course grade

Lab Reports 5%

Lab Practicals 20%

Required Textbook:

Hole's Human Anatomy & Physiology Digital Text with Connect 2 Semester Access Shier

Publisher: McGraw Hill

ISBN 978-1-260-16523-4 Copyright 16 Edition 15.

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 Lab Kit:

A & P 2 Lab Kit #581877 Voucher *Carolina* Edition 1

The lab kit redemption card can be purchased directly from NTCC's College Store. Please see the College Store Website for information on obtaining your lab kit: <http://www.ntccbookstore.com/>

If you purchased the combined A&P I and A&P II lab kit from the bookstore you do not need to purchase this kit.

When you receive your lab kit it is your responsibility to ensure that all materials are present in the kit. If anything is missing, Carolina Biological needs to be contacted by you and they will send you the materials you are missing. Do not wait until you are getting ready to do the labs to check for your materials or you will not have time to get them from the company and you will miss points on the part of the lab that you don't have materials to do.

Recommended Reading(s): Chapters 13 - 24 in the textbook

Minimum Technology Requirements:

High speed internet access
MS Office (free download available as an NTCC student)

Required Computer Literacy Skills:

Ability to communicate effectively via email.
Word processing skills.

Course Structure and Overview:

This is an online Anatomy and Physiology course. The course will consist of weekly assignments done online, unit exams using respondus lockdown browser, and unit discussions using blackboard discussion board. You will be required to take a midterm and final exam at a proctored location. It is imperative that you make sure to be responsible for getting work done prior to the deadline as late work will not be accepted. **Look for announcements and pay attention to the printable calendar that is provided.**

Communications:

If you need to get in touch with me outside of office hours, please email me at syarbrough@ntcc.edu. I will get back in touch with you within 24 hours.

Institutional/Course Policy:

Failure to take the proctored midterm exam or proctored final exam will result in a grade of "F" for the course. The last day to drop with a "W" is **April 9**. 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.**

Exams:

The mid-term and final exams are proctored exams which you must take in person at a college testing center or public library with a proctoring service. Failure to take the mid-term and/or final exams will result in a grade of "F" for the course. If you reside in the NTCC service area, you must take the midterm and final on campus at the NTCC testing center on the main campus.. If you do not reside in the NTCC service area, you will be asked to contact the instructor the first two weeks of the semester and identify a college testing center (preferred) or public library with an exam proctoring service where you can be proctored while taking these exams. Please be aware that other college testing centers or libraries may charge a fee for you to use their facilities. You will

need to provide the physical address, email address and phone number for the proposed proctoring location.. Proctored exams must be taken using the testing center's network. Mobile hot spots are not acceptable when taking the mid- term and final exams.

Assignments:

Homework, quizzes, and Learn Smart are assigned using McGraw-Hill Connect. Each assignment will be due at a specific time in the semester related to the lecture schedule. See the course calendar for details. The unit exams will utilize Respondus Lockdown Browser and will be timed. The unit exams will be open during specified days at the end of each unit. Look for announcements and pay attention to the printable calendar that is provided.

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 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.