



Biology for Non-Science Majors I – BIOL 1308.088

Course Syllabus BIOL 1308 088 Spring 2019

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



Instructor: Dr. Emad Tahtamouni

Office: UHS-BLDG, Room 161

Phone: (903)434-8308

Email: etahtamouni@ntcc.edu

Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online

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: Three Credit Hours. Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction.

Required Textbook:

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. 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.

Essentials of Biology E-text with Connect Plus, Mader, 5th Edition, McGraw-Hill, ISBN 9781259948312

Student Learning Outcomes: Upon successful completion of this course, students will:

1. Apply scientific reasoning to investigate questions, and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data.
2. Use critical thinking and scientific problem solving to make informed decisions in the laboratory. *
3. Communicate effectively the results of scientific investigations. *
4. Distinguish between prokaryotic, eukaryotic, plant and animal cells, and identify major cell structures.
5. Identify stages of the cell cycle, mitosis (plant and animal), and meiosis.
6. Interpret results from cell physiology experiments involving movement across membranes, enzymes, photosynthesis, and cellular respiration.
7. Apply genetic principles to predict the outcome of genetic crosses and statistically analyze results.
8. Identify the importance of karyotypes, pedigrees, and biotechnology.
9. Identify parts of a DNA molecule, and describe replication, transcription, and translation.
10. Analyze evidence for evolution and natural selection.

Lectures & Discussions: This course covers chapters 1 through 16 in the textbook, Essentials of Biology. The following is a general time frame for each Unit and Chapter.

Ch. 1-3: Assignments and quizzes: due on 2/8/2019

Ch. 4 & 5: Assignments and quizzes: due on 2/22/2019

Ch. 6 & 7: Assignments and quizzes: due on 3/8/2019

Ch. 8, 9 & 10: Assignments and quizzes: due on 3/29/2019

Ch. 11, 12 & 13: Assignments and quizzes: due on 4/19/2019

Ch. 14, 15 & 16: Assignments and quizzes: due on 5/10/2019

Exam 1: due on 2/10/2019

Exam 2: due on 2/24/2019

Exam 3: due on 3/10/2019

Exam 4: due on 3/31/2019

Exam 5: due on 4/21/2019

Exam 6: due on 5/12/2019

Final exam (5/13 – 5/15) 2019

Evaluation/Grading Policy:

Connect Assignments Homework and Quizzes = 35%

Unit Exams = 40%

Final Exam = 25%

Grading Scale

A =	100 – 90%
B =	89 – 80%
C =	79 – 70%
D =	69 – 60%
F =	<59%

Student Responsibilities/Expectations:

1. Schedule and plan to complete all lecture and laboratory assignments and submit them when they are due. Be sure to print off the calendar to help you keep up with assignment due dates.
2. Be sure to do all of your own work. Collusion and plagiarism are acts of academic dishonesty.

Other Course Requirements:

This is an online course in introductory biology. Lecture study materials and assignments will be delivered through the Blackboard Learning Management System at NTCC. You are required to also purchase an eScience lab kit to complete the lab component of the course. Students should ensure that they have the appropriate hardware, software, and technical skills for completing all assignments and tests.

- Homework, and quizzes are 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 6 unit tests. Each unit test will be taken through Respondus Monitor.
<https://download.respondus.com/lockdown/download.php?id=231117566>

You are required to use LockDown Browser with a webcam, which will record you during an online, non-proctored exam. (The webcam feature is sometimes referred to as “Respondus Monitor.” Your computer must have a functioning webcam and microphone.

There is a **\$10.00 fee** to use Respondus Monitor payable to Respondus when you first download the

program). Read the information in the “Start Here” folder to familiarize yourself with the process for downloading the browser and using the webcam.

- The final exam is a proctored exam which you must take in person at a college testing center or public library with a proctoring service. Failure to take the final exam will result in a grade of “F” for the course. If you reside in the NTCC service area, you must take the final on campus at the NTCC testing center on the main campus. The testing center is located on the main campus of NTCC in the Student Services Building. The hours of the testing center are: Monday—Wednesday 8:00 a.m. to 4:00 p.m. 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 this exam. 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. The instructor will contact the center to verify the appropriateness of the location for approval. BioSig will provide your instructor with an independent report identifying the IP address of the computer and the internet provider of your proctored test. Proctored exams must be taken using the testing center’s network. Mobile hot spots are not acceptable when taking the final exam.

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 arrange an appointment with a college advisor to obtain a Request for Accommodations form. For more information, please refer to the NTCC Catalog or Student Handbook.

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.

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.