



## BIOL 1108 Biology for Non-Majors I Lab

Course Syllabus: Spring 2018

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

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: One Credit Hour.** This laboratory-based course accompanies BIOL 1308 , Biology for Non-Science Majors I. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction.

### Required Material:

eScience Lab Kit 1286. A redemption card may be purchased thru the NTCC bookstore or directly from eScience Labs at [eSciencelabs.com](http://eSciencelabs.com)

**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.

**Lab Schedule:**

Jan 28: Introduction to Science

Feb 4: The Chemistry of Life

Feb 11: Introduction to the Microscope

Feb 18: Cell Structure and Function

Feb 25: Diffusion

Mar 4: Enzyme

Mar 11: Energy and Photosynthesis

Mar 25: Cellular Respiration

Apr 1: Mitosis

Apr 8: Mendelian Genetics

Apr 15: DNA and RNA

Apr 22: Population Genetics

**Evaluation/Grading Policy:**

Lab Reports = 50%

2 Lab Practicals = 50%

Grading Scale

A = 100 – 90%

B = 89 – 80%

C = 79 – 70%

D = 69 – 60%

F = <59%

**Labs:**

All lab materials are provided in the eScience Lab Kit. Lab instructions and experimental procedures are on the Blackboard site under Lab Assignments. There are mandatory due dates for the submission of the lab reports which are also on the Blackboard site. Late lab reports will result in a deduction of 5% of the grade for each day past due. DO NOT wait until the last minute to complete the labs. Some labs require extended time. The labs are arranged to coordinate with the Biol 1308 Lectures and textbook materials.

**Lab Practicals:** Both Lab Practical Exams must be taken using Respondus Lockdown Browser and Respondus Monitor – **OR** – they can be taken at an approved testing center. If taking at a testing center, I will need the contact information for the testing center you are using at least 2 weeks prior to the date you will be testing.

**Student Responsibilities/Expectations:****ATTENDANCE POLICY:**

• Blackboard allows your instructor to monitor your participation in this course on a daily basis. While there is flexibility in the schedule, this is NOT an independent study course. Access to course materials follows the same time schedule as a traditional classroom, and students are expected to complete assignments by a specified date as indicated in the course calendar. Late lab reports will result in a deduction of 5% of the grade for each day past due.

At the first sign of trouble you should seek help immediately. I am happy to help you with any of your biology

coursework. However, if you wait too long to seek help, there is a point where there is nothing I can do to help you.

Thursday, April 12th is the last day to withdraw from the course with a grade of “**W**”. If you stop participating in class and fail to officially withdraw, expect to earn a grade of “**F**” in 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 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.

**SYLLABUS MAY BE MODIFIED AT ANY TIME**