



Biology 1109.001 Spring 2019

Biology for Non-Science Majors II Lab

Location: Main Campus, Math/Science Building, 128

Day & Time: Monday: 1:30 PM-4:20 PM

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

Dr. Emad Tahtamouni

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	Monday	Tuesday	Wednesday	Thursday
Office Hours	8am-9:30am 4:30pm-5pm	4:30pm- 5:30pm	8am-9:30am 4:30pm-5pm	12-5pm

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 (include prerequisites): One Credit Hour. Three hours of lab each week. This laboratory-based course accompanies BIOL 1309, Biology for Non-Science Majors II. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology.

Required Textbook(s):

Exploring Biology II

Laboratory Manual for Biology II

Other Course Requirements:

Notebook along with pencils for completing labs and taking notes during class.

Tests must be taken with a #2 pencil.

Scantrons for exams

Student Learning Outcomes:

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. Define modern evolutionary synthesis, natural selection, population genetics, micro and macroevolution, and speciation.
5. Describe phylogenetic relationships and classification schemes.
6. Identify the major phyla of life with an emphasis on plants and animals, including the basis for classification, structural and physiological adaptations, evolutionary history, and ecological significance.

7. Describe basic animal physiology and homeostasis as maintained by organ systems.
8. Compare different sexual and asexual life cycles noting their adaptive advantages.
9. Illustrate the relationship between major geologic change, extinctions, and evolutionary trends.

Evaluation:	LAB PEPORTS	100 points
	LAB PRACTICAL I	100 points
	LAB PRACTICAL II	100 points
	Attendance	100 points

Grading Policy: Grading Scale

A = 100 – 90%

B = 89 – 80%

C = 79 – 70%

D = 69 – 60%

F = <59%

WEEK	Dates	UNIT	TOPIC		
1	Jan 22-23		No Lab		
2	Jan 29-30	1	Orientation/Lab Safety +Scientific Research		
3	Feb 5-6	2	Evolutionary Mechanisms		
4	Feb 12-13	3	Evolutionary Studies		
5	Feb 19-20	4	Bacteria & Viruses		
6	Feb 26-27	5	Protista		
7	Mar 5-6	6	Fungi		
SPRING BREAK					
8	Mar 19-20	LAB PRACTICAL I			
9	Mar 26-27	7	Plants: Seedless		
10	Apr 2-3	8	Plants: Seed		
11	Apr 9-10	9	Animals: Introduction		
12	Apr 16-17	10	Animals: Protostomes		
13	Apr 23-24	11	Animals: Deuterostomes		
14	Apr 30-May 1	12	Fetal Pig & Human Anatomy		
15	May 7-8	LAB PRACTICAL II			

2019 Spring Semester

Offices Re-open	Monday, January 7
Faculty In-Service	January 14-15
Martin Luther King Day	Monday, January 21
First Class Day (16-week, 1 st 8-week, 1 st 5-week sessions)	Tuesday, January 22
Late Registration Ends	Friday, January 25
Staff In-Service	Friday, February 22 (8:00 a.m. - 12 p.m.)
First Class Day (2 nd 5-week session)	Monday, February 25
Deadline for Spring Graduation Application	Friday, March 1
Spring Break	Monday-Friday, March 11-15
First Class Day (2 nd 8-week session)	Monday, March 25
First Class Day (3 rd 5-week session)	Monday, April 8
Final Day to Withdraw with Grade of "W" (16-week)	Thursday, April 11
Last Class Day (16-week)	Thursday, May 9
Final Examinations	Friday, May 10 - Thursday, May 16
Spring Graduation	9:00 a.m. & 11:00 a.m., Saturday, May 18

Tests/Exams:

Lab Exams will be over the labs covered and will be in multiple choice format.

Assignments:

Lab Reports are included with each lab and will be turned in the week following the lab assignment to allow time for fully answering all questions.

Student Responsibilities/Expectations:

Students are expected to attend regularly, participate fully and take personal responsibility for their learning by doing such things as taking lecture notes and studying outside of class time. I will be available during office hours if you have questions regarding the course or need help understanding something that we are learning.

The last day to drop the course with a grade of W is (see the calendar above). 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.**

REMINDER TO ALL STUDENTS: ABSOLUTELY NO FOOD OR DRINK CAN BE BROUGHT INTO THE LAB. PLEASE CONSUME ALL FOOD AND DRINK BEFORE YOU ENTER THE LAB.

Laboratory Conduct and Attire: It is expected that all students will conduct themselves in a safe manner when working in the laboratory. Follow all directions of your lab instructor. Failure to do so will result in your dismissal from the lab and a grade of zero for the week's activities.

Student Responsibilities/Expectations: You are expected to attend all laboratory periods. There is no make-up experiment, and failing to attend lab will earn you a grade of zero for that experiment.

All lab reports are expected to be **NEAT and LEGIBLE**. If I cannot read your lab report or if it is just too unprofessional, points will be deducted from your grade, or in extreme cases, it will not be graded and will receive a score of zero "0". It is important to practice and submit professional looking reports

while you are in college. This will be the expectation when you are practicing your career. Questions must be answered using complete sentences as appropriate. Failure to write complete sentences will also result in point deductions on your report.

Use of cell phones is prohibited during lab time. Students using phones during lab will be asked to leave lab and will earn a grade of zero for that experiment.

Like all colleges, Northeast Texas Community College strives to be a “community of scholars.” Please remember that you and all of the students in this class are pursuing very important goals in your lives. As human beings and as scholars, I expect every student to be courteous and considerate toward other students throughout the lecture and laboratory portions of this 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 counselor 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.