



**Biology 1309**      **3 Credits**  
**Spring 2019**  
**Introduction to Biology 2 (Section 001)**

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

**Instructor Name:** Dr. Emad Tahtamouni

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**Location and Time:** UHS 150

**MW 11:00am – 12:20pm**

Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday
	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):** Three Credit Hours. A survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology.

**Required Textbook(s):**

Concepts of Biology, Open Stax ISBN: 10 193816811

**Other Course Requirements:**

-Notebook along with pens/pencils for note taking during class. Tests must be taken with a pencil.

**-Scantrons for exams**

**Student Learning Outcomes:**

1. Define modern evolutionary synthesis, natural selection, population genetics, micro and macroevolution, and speciation.
- 2- Describe phylogenetic relationships and classification schemes.
- 3- 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.
- 4- Describe basic animal physiology and homeostasis as maintained by organ systems.
- 5- Compare different sexual and asexual life cycles noting their adaptive advantages.
- 6- Illustrate the relationship between major geologic change, extinctions, and evolutionary trends.
- 7- Be able to discuss the role of conservation biology and the human impact on the biosphere.

## Lectures & Discussions: Tentative Lecture Calendar

### Unit 4. Evolution and the Diversity of Life

Chapter 11: Evolution and Its Processes

Chapter 12: Diversity of Life

Chapter 13: Diversity of Microbes, Fungi, and Protists

Exam 1

Chapter 14: Diversity of Plants

Chapter 15: Diversity of Animals

Exam 2

### Unit 5. Animal Structure and Function

Chapter 16: The Body's Systems

Chapter 17: The Immune System and Disease

Chapter 18: Animal Reproduction and Development

Exam 3

### Unit 6. Ecology

Chapter 19: Population and Community Ecology

Chapter 20: Ecosystems and the Biosphere

Chapter 21: Conservation and Biodiversity

Exam 4

### Final Exam (comprehensive)

#### Evaluation/Grading Policy:

Evaluation is accomplished as follows:

10 Quizzes, 10 points each =100

4 Exams, 100 each =400

Final Exam = 100

Total .....  
600

Grades will be awarded as follows:

89.5 - 100% = A

79.5 - 89.4% = B

69.5 - 79.4% = C

59.5 - 69.4% = D

Below 59.5% = F

#### Tests/Exams:

All exams include both objective (multiple choice, true-false, matching) and subjective questions over notes and text material and any additional outside reading that may be assigned.

### **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 Thursday, April 11. 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.**

### **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. Such disciplinary action can include a grade of "F" for the assignment or a grade of "F" as a final grade for the course. 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 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.

### **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.