



BIOL 1309 Intro to Biology II - ONLINE

Course Syllabus: Spring 2020

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

Professor Jim Ward

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Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
	1:30-3:00 Zoom Office Online	8:30-9:30 4:30-5:00	8:30-11:00 4:30-6:00	8:30-9:30 1:30-2:00	1:30-3:00 Zoom Office Online	Mon or Fri 1:30-3:00

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: 3 Credit Hours. This course is an introduction to the science of biology for non-science majors. Topics include evolution, diversity of life, microorganisms, plant growth, animal structure and function, ecology, human impact on ecosystems, and survey of human organ systems.

Required Textbook: Essentials of Biology **Text with Connect**, Mader, 5th Edition

Recommended Reading(s): Chapters 14-19; 22-32 in lecture textbook

Other Course Requirements:

- 2 scantrons (for proctored midterm and final exam)

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.

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

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.
8. Understand the major anatomic parts of human organ systems and their physiological importance.

Lectures & Discussions:

CH 14 – Darwin and Evolution

CH 15 – Evolution on a Small Scale

CH 16 – Evolution on a Large Scale

EXAM 1 (CH 14-16) - online

CH 17 – Microorganisms

CH 18 – Plants and Fungi

CH 19 – Animals

EXAM 2 (CH 17-19) - online

PROCTORED MIDTERM EXAM (CH 14-19) – on campus

CH 30 – Ecology and Populations

CH 31 – Communities and Ecosystems

CH 32 – Human Impact

EXAM 3 (CH 30-32) - online

CH 22 – Overview of Physiology

CH 23 – The Transport Systems

CH 24 – Maintenance Systems

CH 25 – Digestion and Nutrition

CH 26 – Defenses Against Disease

CH 27 – Control Systems

CH 28 – Sensory Input and Motor Output

CH 29 – Reproduction

EXAM 4 (CH 22-29) -online

Final Exam Review

PROCTORED FINAL EXAM (CH 22-32) – on campus

Evaluation/Grading Policy (1000 points):

100 points – Chapter Outlines & Discussion Boards

100 points – Connect Online Assignments (4000 pts.)

400 points – Lecture Exams (4)

200 points – Proctored Midterm Exam

200 points – Proctored Final Exam

Grade Assignment:

A = 90-100% (900-1000 pts)

B = 80-89% (800-899 pts)

C = 70-79% (700-799 pts)

D = 60-69% (600-699 pts)

F = 0-59% (0-599 pts)

Lecture Assignments:

Chapter outlines, videos, and discussions will be assigned to check your understanding of chapter topics and reading assignments. These are completed online in blackboard. Each assignment has a posted due date for completion. Due dates are firm – no makeups for missed homework. Average of ALL assignments equals 100 pts.

Connect Online Assignments:

Weekly assignments and quizzes will be assigned to check your understanding of chapter topics and reading assignments. These are completed online in Connect. You will need to access Connect the first week of the semester and register your keycode to complete your assignments. Each assignment has a posted due date for completion. **Due dates in Connect are firm – no makeups for missed homework.** Students will need to earn 4,000 connect points out of the 5,100 possible to earn a 100 for their connect grade. Every 100 points over 4,000 will be worth 1 extra credit point for a maximum 11 extra credit points or a grade of 111.

Lecture Tests/Exams:

The lecture exams may include both objective questions (multiple choice, matching, etc.) over text materials, and readings as well as descriptive questions requiring detailed explanations over broad themes. Success on the exams is a function of anxiety regulation, test prep, study strategies, and studying for retention. Retention requires repetitions, which requires time! The 4 Unit Exams will be completed online in Connect. Exams will not be made up for any reason as multiple days exist for students to complete the exams. Each exam is worth 100 points.

Proctored Midterm and Final Exams:

A comprehensive midterm and final exam will be given **on campus in the testing center.** For students out of the area, you must email your instructor at the beginning of the semester with a requested alternate proctored location near your location. Once approved, your exams can be completed at the designated alternate location. A scantron is required for both exams. Each exam is worth 200 points.

Withdraw Date

The last day to withdraw from the course in **Thursday, April 16th**. Discontinuing with the course without officially dropping the course by this date will result in a grade earned, in most instances an “F”. A stop in attendance does not equate to dropping the course.

Student Responsibilities & Expectations

Northeast Texas Community College is a “community of scholars”. As scholars, you are expected to be respectful and courteous to your peers and instructors in both lecture and lab. Scholars are expected to be on time and remain for the duration of class. Scholars are expected to embrace anxiety and manage stress to be productive and responsible at all times. Scholars understand that they, and others around them, are pursuing very important goals in their life at this time and are proactive, not reactive, in regards to the assignments and grades to ensure they are on track at all times to meet their goals.

As scholars in class, it is critical that you engage yourself in the lecture material and discussions as well as the laboratory exercises. The ability to listen carefully, record information in note form, and follow directions are important skill sets required for success in higher education. Practicing these in class prepares you to study at home where you will take the important steps toward learning the course material. This leads to the ability to retain information and describe processes on major exams. Research shows writing by hand is far more effective in obtaining long term retention than is typing! Electronic devices are allowed on non-testing days as long as they do not prevent engagement. **No devices or picture taking is allowed on testing days.**

Your instructor is a valuable resource for your success. I will teach to the best of my ability and provide you with a variety learning formats to help you in your effort to be successful in Biology. I deeply care about you and your academic learning experiences here at Northeast Texas. Office Hours are designed for scholars to have an opportunity to get individual questions answered and engage in learning with the professor outside of class times. Take advantage of office hours as your ultimate success in the course depends solely on YOU!

NTCC Academic Honesty Statement and Academic Ethics:

"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." 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. See Student Handbook.

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 the Academic Advisor of Special Populations located in the Student Services. For more information and to obtain a copy of the Request for Accommodations, please call 903-434-8218 or 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.