



BIOL 1309.001 Biology 2 for non-majors, F2F

Course Syllabus: Spring 2020

"Northeast Texas Community College exists to provide personal, dynamic learning experiences empowering students to succeed."

Instructor: Stacie Yarbrough

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| Office Hours | Monday | Tuesday | Wednesday | Thursday | Friday | Online |
|--------------|-------------|---------|------------|----------|--------|-------------------|
| | 11 – 12:30 | 9 - 11 | 11 – 12:30 | 9 - 11 | | via NTCC email |
| | 1:30 – 4:30 | | | | | |

This syllabus serves as the documentation for all course policies and requirements, assignments, and instructor/student responsibilities.

Information relative to the delivery of the content contained in this syllabus is subject to change. Should that happen, the student will be notified.

Course Description:

3 credit hours.

Lecture/Lab/Clinical: Three hours of lecture each week.

A survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology.

Prerequisite(s): None

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.

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/Grading Policy:

Evaluation is accomplished as follows:

Quizzes = 15%

Unit Exams = 48%

Ecology Paper = 12%

Final Exam = 25%

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

Required Instructional Materials:

Concepts of Biology

Publisher: Open Stax

ISBN Number: 10 193816811

Optional Instructional Materials:

Notebook along with pens/pencils for note taking during class. Tests must be taken with a #2 pencil.

Scantrons for exams. There are hard copies of the book available for purchase at the NTCC bookstore.

The online version of the book is free.

Minimum Technology Requirements: None

Required Computer Literacy Skills: None

Course Structure and Overview:

This is a 16 week, face to face lecture covering the classification and diversity of life on earth as well as a look at human systems and ecology.

Communications:

If you need to get in touch with me outside of class time or office hours, please email me at syarbrough@ntcc.edu.

Institutional/Course Policy:

Students will not be allowed to make up **in class quizzes** that **might be** missed. If a student must miss an exam, the absence should be pre-arranged and if approved, a make-up will be scheduled. **The last day to drop with a "W" is April 9.** 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/Ethics Statement:

NTCC upholds the highest standards of academic integrity. The college expects all students to engage in their academic pursuits in an honest manner that is beyond reproach using their intellect and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. This course will follow the NTCC Academic Honesty and Academic Ethics policies stated in the Student Handbook. Refer to the student handbook for more information on these subjects.

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/Coordinator of Special Populations located in Student Services and can be reached at 903-434-8264. For more information and to obtain a copy of the Request for Accommodations, please refer to the special populations page on the NTCC website.

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.

Tentative Course Timeline (*note* instructor reserves the right to make adjustments to this timeline at any point in the term):

Week 1: Diversity of Life
Week 2 Diversity of Life
Week 3: Diversity of Microbes, Fungi, and Protists
Week 4: Test I (Feb 12/13)
Week 5: Diversity of Plants
Week 6: Diversity of Plants
Week 7: Diversity of Animals
Week 8: Test II (March 9/10)
March 9 – 13 Spring Break
Week 9: The Body's Systems
Week 10: The Immune System and Disease

Week 11: Animal Reproduction and Development / Test III (April 8/9)

April 9: Last day to drop with a "W"

Week 12: Population and Community Ecology

Week 13: Ecosystems and the Biosphere

Week 14: Conservation and Biodiversity

Week 15: Test IV (May 6/7)

Final Exams May 11 - 14

Graduation May 15