



# BIOL 1409.088 TR – Introduction to Biology II (Online)

Course Syllabus: Fall 2024

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

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***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:**

4 credit hours. Lecture/Lab

This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Lab activities reinforce these topics.

Note: Additional course fee(s) required.

**Prerequisite(s):** None

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

## **Evaluation/Grading Policy:**

## **Final grades will be calculated as follows:**

<b>A = 90-100%</b>	<b>CONNECT assignment</b>	<b>20%</b>
<b>B = 80-89%</b>	<b>Exams</b>	<b>30%</b>
<b>C = 70-79%</b>	<b>QUIZZES</b>	<b>20%</b>
<b>D = 60-69%</b>	<b>FINAL EXAM</b>	<b>10%</b>
<b>F = 0-59%</b>	<b>SI Lab assignments</b>	<b>20%</b>

### **Connect Online Assignments:**

Each chapter has an assigned Smartbook activity, chapter assignment, and chapter quiz to check your understanding of chapter topics and reading assignments. These are completed online in Connect which is accessed through blackboard. You will need to login to blackboard on the 1<sup>st</sup> day of the semester. Students will work at their own pace prior to due dates. Activities and Assignments are not timed. The chapter quizzes each consist of 20 questions with a 25 minute timer. Each assignment has a posted due date for completion.

### **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 5 unit exams will be accessed through blackboard. They will be completed **online via Connect monitored by Proctorio**. Each exam is 100 questions worth 100 points with a 90 minute timer. Exams will not be made up for any reason as multiple days exist for students to complete the exams. **Exams will open on a designated dates at 12:30am and close at 11:59pm. The due dates are firm – no makeups for missed exams will be allowed.**

### **Science Interactive Labs:**

Science Interactive Lab Kits are hands-on labs designed to augment learning by enabling students to engage with authentic lab experiences from anywhere. Virtual labs are interactive science simulations that students complete online from their personal devices. Each lab places students in real-world scenarios, where they must apply their knowledge to solve practical problems.

The labs in this course are crucial learning activities designed to help you master many of the course outcomes. To receive credit, all short-answer questions must be answered in complete sentences using your own words to describe the work you have completed. Labs are graded based on documented evidence of completing the lab exercise. Labs may require photos to be uploaded, data tables to be completed, and successful answers to the presented questions. When photos are required as part of a lab submission, work submitted without the necessary photos will receive an automatic zero. Completing data tables is equally important. The icon for photo submission and data table completion is labeled “Data” and is located in the lower right corner of your lab experimentation page.

Lab reports that show evidence of being copied from any website or are identical to other submitted reports will receive a grade of zero. Lab reports are generally graded within a week of submission, and feedback on your techniques or results will be provided.

Lab kits are required for the online lab portion of the course and can be purchased through the NTCC bookstore. The Science Interactive Lab Kit contains almost all the materials you will need. However, there are a few items you will need to supply yourself, such as access to a microwave oven or hot water bath, isopropyl (rubbing alcohol), local tap water, household bleach, etc. Please review all the materials in your lab kit and check them against the provided content list to ensure you have everything. If any components are missing, contact Science Interactive, and they will replace the missing items.

When you click on the first link in the **Mandatory to Complete Before Starting Labs 1-17: Science Interactive Labs** folder, you will be asked to register for Science Interactive, please be sure to register using your NTCC email if asked to do so. REGISTRATION MUST BE DONE QUICKLY so your lab kit will arrive by the start of class. You must complete all 4 lab tasks **to be able to move onto labs 1 -17**

- 1- Getting Started,
- 2- Lab Kit Inventory,
- 3- Lab Safety
- 4- Using the V-Scope.

**Proctored Exams:**

A comprehensive exam will be accessed through blackboard. It will be given online via connect monitored by Proctorio. Each exam is 200 questions worth 200 points with a 150 minute timer. The Final Exam will open on Friday, 12/ 6<sup>th</sup> and close on Sunday, 12/ 8<sup>th</sup> at 11:59pm.

**Required Instructional Materials:** Mader: Essentials of Biology, 7<sup>th</sup> ed with Connect Inclusive Access

**Publisher:** McGraw Hill

**ISBN Number:** Available through NTCC Bookstor

**Optional Instructional Materials:** none

**Minimum Technology Requirements:**

- Internet capable desktop, laptop, or chromebook (Tablets/ipads/Phones not recommended)
- Microsoft Office for Lab Workbook in Microsoft Word
- Video conferencing capability with webcam and microphone using Zoom
- Access to printer if hard copies of assignments are desired

**Required Computer Literacy Skills:** Blackboard; Microsoft Office; Zoom

- Web browsing skills for working with the online homework system
- Ability to use Blackboard for access to course information and assignments
- Functional use of Microsoft Office and ability to insert images into word docs
- Ability to use camera and microphone for video and sound in zoom
- Competent and professional emailing skills
  - Emails should have the following format in subject line: Last Name, First Name -Course ID
    - Example: Tahtamouni, Emad - BIOL 1406.001

**Student Expectations:**

- Adhere to Classroom Etiquette including Zoom Virtual Classroom (see addendum in Blackboard)
- Adhere to Proctored Exam Etiquette (see addendum in Blackboard)
  - Proctored exams are monitored by McGraw Hill through Connect with Proctorio
    - Students will be recorded in the following ways during proctored exams:
      - Video, Audio, Screen, and Environment
    - Testing Violations from all recordings will be reported by Proctorio

**Communications:** Turnaround time for email responses is 24 hours during workweek.

NTCC email is the official form of communication used by the college.

**Institutional/Course Policy: Withdraw Date**

The last day to withdraw from the course in **Nov 19th**. Discontinuing with the course without officially dropping the course by this date will result in a grade earned, in most instances an “F”. A stoppage in attendance does not equate to dropping the course.

**Alternate Operations During Campus Closure and/or Alternate Course Delivery Requirements:**

In the event of an emergency or announced campus closure due to a natural disaster or pandemic, it may be necessary for Northeast Texas Community College to move to altered operations. During this time, Northeast Texas Community College may opt to continue delivery of instruction through methods that include, but are not limited to, online through the Blackboard Learning Management System, online conferencing, email

messaging, and/or an alternate schedule. It is the responsibility of the student to monitor NTCC's website (<http://www.ntcc.edu/>) for instructions about continuing courses remotely, Blackboard for each class for course-specific communication, and NTCC email for important general information. Additionally, there may be instances where a course may not be able to be continued in the same delivery format as it originates (face-to-face, fully online, live remote, or hybrid). Should this be the case, every effort will be made to continue instruction in an alternative delivery format. Students will be informed of any changes of this nature through email messaging and/or the Blackboard course site.

**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.

# Academic Calendar 2024 – 2025

## 2024 Fall Semester

Faculty/Staff In-Service.....	Monday, August 19 – Thursday, August 22
First Class Day (16-week, 1 <sup>st</sup> 8-week, 1 <sup>st</sup> 5-week sessions).....	Monday, August 26
Fall Census (1 <sup>st</sup> 5-week session).....	Thursday, August 29
Late Registration Ends.....	Friday Noon, August 30
Labor Day.....	Monday, September 2
Fall Census (1 <sup>st</sup> 8-week session).....	Tuesday, September 3
Fall Census (16-week session).....	Wednesday, September 11
Last Day to Withdraw with a Grade of “W” (1 <sup>st</sup> 5-week session).....	Thursday, September 19
First Class Day (2 <sup>nd</sup> 5-week session).....	Monday, September 30
Fall Census (2 <sup>nd</sup> 5-week session).....	Thursday, October 3
Last Day to Withdraw with a Grade of “W” (1 <sup>st</sup> 8-week session).....	Tuesday, October 8
First Class Day (2 <sup>nd</sup> 8-week session).....	Monday, October 21
Deadline for Fall Graduation Application.....	Thursday, October 24
Last Day to Withdraw with a Grade of “W” (2 <sup>nd</sup> 5-week session).....	Thursday, October 24
Fall Census (2 <sup>nd</sup> 8-week-session).....	Monday, October 28
Final Day to Withdraw with a Grade of “W” (16-week session).....	Tuesday, November 19
Thanksgiving Break.....	Wednesday – Friday, November 27 - 29
Last Day to Withdraw with a Grade of “W” (2 <sup>nd</sup> 8-week session).....	Tuesday, November 26
Last Class Day (16-week session).....	Thursday, December 5
Final Examinations.....	Friday, December 6 – Thursday, December 12
Fall Graduation.....	7:00 p.m., Friday, December 13
Offices Close at 12:00 p.m. for Holiday Break.....	Friday, December 20

# BIOL 1409 ONLINE COURSE SCHEDULE

All 4 credit college courses require 9 hours of lecture work per week and 3 hours of lab course work per week. Online courses are no different except all 12 hours are completed on your own instead of having 6 weekly hours of class time. You may always work ahead but never behind.

**Tentative Course Timeline for Fall 2024:**

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

## Online Lecture

### MATERIALS FOR EXAM 1

CH 14 Darwin and Evolution  
CH 15 Evolution on a Small Scale  
CH 16 Evolution on a Large Scale  
Lab 1, 2 , and 3

Connect Assignments and Labs are due on 9/14th

**EXAM 1 over CH 14-16 (available online 9/15)**

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### MATERIALS FOR EXAM 2

CH 17 Viruses, Bacteria, and Protists  
CH 18 Plants and Fungi  
CH 19 Animals  
LAB 4  
LAB 5  
LAB 6

Connect Assignments and Labs are due on 10/05th

**EXAM 2 over CH 17-19 (available online 10/06)**

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### MATERIALS FOR EXAM 3

CH 22 Being Organized  
CH 23 Transport Systems  
CH 24 Maintenance Systems  
CH 25 Digestion & Nutrition  
LAB 7  
LAB 8  
Lab 9

Connect Assignments and Labs are due on 10/26

**EXAM 3 over CH 22-25 (available online 10/27)**

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**MATERIALS FOR EXAM 4**

CH 27 Control Systems  
CH 28 Sensory Input & Motor Output  
CH 29 Sexual Reproduction  
CH 26 Defenses Against Disease

LAB 10, 11, 12 and 13 Sensory and Nervous Systems

Connect Assignments and Labs are due on 11/16

**EXAM 4 over CH 26-29 (available online 11/17)**

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**MATERIALS FOR EXAM 5**

CH 30 Ecology & Populations  
CH 31 Communities & Ecosystems  
CH 32 Human Impact  
LAB 14

LAB 15, 16 and 17

Connect Assignments and Labs are due on 12/1st

**EXAM 5 over CH 30-32 (available online 12/1-2)**

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**FINAL EXAM:**      **FINAL EXAM over CH 14-19, 22-32 (available 12/ 6th – 12/8th)**

<b>NOTE: CH 20 &amp; 21 omitted; CH 26 out of sequence</b>
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