



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

Course Syllabus: Fall 2022

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

**Instructor Name:** Dr. Emad Tahtamouni

**Office:** NA

**Phone:** NA

**Email:** [etahtamouni@ntcc.edu](mailto:etahtamouni@ntcc.edu)

***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 HOMEWORK/QUIZZES</b>	<b>20%</b>
<b>B = 80-89%</b>	<b>Exams</b>	<b>40%</b>
<b>C = 70-79%</b>	<b>LABORATORY</b>	<b>25%</b>
<b>D = 60-69%</b>	<b>FINAL EXAM</b>	<b>15%</b>
<b>F = 0-59%</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 the Fridays (12:30am on a designated dates and close at 11:59pm. The due dates are firm – no makeups for missed exams will be allowed.**

### **Lab Portfolio:**

Lab Kits are required for online lab portion of the course. These are purchased through the NTCC bookstore. Each lab unit has a Lab Workbook (docx file) to download and complete while conducting the experiments at home. All supplies needed are provided in the kits other than common household items. Students will work on lab at their own pace prior to due dates. NOTE: Some labs take multiple days to complete! **The weekly Lab Workbooks (docx file) are always due at 11:59pm. These dates are firm – no makeups for missed labs will be allowed.**

### **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 Monday, Dec 5<sup>th</sup> and close on Wednesday, Dec 7<sup>th</sup> at 11:59pm. The Wednesday due date is firm – no makeups for missed exams will be allowed.**

**Required Instructional Materials:** Mader: Essentials of Biology, 6<sup>th</sup> ed with Connect Inclusive Access

**Publisher:** McGraw Hill                      **ISBN Number:** Available through NTCC Bookstore

**Required Instructional Materials:** eScience Introductory Biology Version 2 Lab Kit 1214

**Publisher:** eScience                      **ISBN Number:** Available through NTCC Bookstore

**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: Ward, James - 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 **November 16**. 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 2022 – 2023**

### **2022 Fall Semester**

Faculty/Staff In-Service .....	Monday, August 15 – Thursday, August 18
First Class Day (16-week, 1 <sup>st</sup> 8-week, 1 <sup>st</sup> 5-week sessions) .....	Monday, August 22
Late Registration Ends.....	Friday Noon, August 26
Labor Day.....	Monday, September 5
Last Day to Withdraw with a Grade of "W" (1 <sup>st</sup> 5-weeks) .....	Thursday, September 15
First Class Day (2 <sup>nd</sup> 5-week session).....	Monday, September 26
Last Day to Withdraw with a Grade of "W" (1 <sup>st</sup> 8-weeks) .....	Tuesday, October 4
Deadline for Fall Graduation Application.....	Thursday, October 27
First Class Day (2 <sup>nd</sup> 8-week session).....	Monday, October 17
Last Day to Withdraw with a Grade of "W" (2 <sup>nd</sup> 5-weeks) .....	Thursday, October 20
First Class Day (3 <sup>rd</sup> 5-week session) .....	Monday, October 31
Final Day to Withdraw with a Grade of "W" (16-weeks) .....	Tuesday, November 15
Last Day to Withdraw with a Grade of "W" (3 <sup>rd</sup> 5-weeks) .....	Tuesday, November 22
Last Day to Withdraw with a Grade of "W" (2 <sup>nd</sup> 8-weeks) .....	Tuesday, November 22
Thanksgiving Break.....	Wednesday – Friday, November 23-25
Last Class Day (16-week session) .....	Thursday, December 1
Final Examinations .....	Friday, December 2 – Thursday, December 8
Fall Graduation.....	7:00 p.m., Friday, December 9
Offices Close at 12:00 p.m. for Holiday Break .....	Friday, December 16

# 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. The online weekly schedule will go from Monday to Sunday as follows:

## LECTURE

Monday – Complete Chapter Reading and Notation Assignments

Tuesday – Review Blackboard Video and Content in Chapter Resource Folder

Wednesday – Complete Initial Chapter Discussion Board Post

Thursday – Make Final Preparations Needed to Successfully Complete Upcoming Assignments

Saturday – Chapter Connect Assignments Due

## LAB

Monday – Complete Learning Objectives, Knowledge Checks, and Lab Drill

Tuesday – Review Lab Assignments & Procedures; Download Lab Workbook (docx file)

Tuesday to Sunday – Work on Lab Experiments

Sunday – Lab Workbook (docx file) Due

## **Tentative Course Timeline:**

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

### Online Lecture

#### **Orientation/Syllabus**

Syllabus Agreement Due

Syllabus Quiz Due 9/3/2021

#### **CH 14 Darwin and Evolution**

CH 14 Connect Due 9/15

#### **CH 15 Evolution on a Small Scale**

CH 15 Connect Due 9/15

#### **CH 16 Evolution on a Large Scale**

CH 16 Connect Due 9/15

### **EXAM 1 over CH 14-16 (available online Sep 16)**

#### **CH 17 Viruses, Bacteria, and Protists**

CH 17 Connect Due 10/6

#### **CH 18 Plants and Fungi**

CH 18 Connect Due 10/6

#### **CH 19 Animals**

CH 19 Connect Due 10/6

### **EXAM 2 over CH 17-19 (available online Oct 7)**

### Online Lab

#### **LAB 0 Getting Started**

Lab Safety Contract Due 9/3/2021

#### **LAB 1 Intro to Science & LAB 2 Lab Safety**

Lab 1 & 2 Workbooks Due 9/15

#### **LAB 3 Taxonomy**

Lab 3 Workbook Due 9/15

#### **LAB 4 Bacteria & LAB 5 Protista**

Lab 4 & 5 Workbooks Due 10/6

#### **LAB 6 Fungi & 7**

#### **LAB 8 & 9 Plant Circulation & Reproduction**

Lab 6, 7, 8, & 9 Workbooks Due 10/6

#### **LAB 10 Invertebrates & Vertebrates**

Lab 10 Workbook Due 10/6

**CH 22 Being Organized**  
**CH 23 Transport Systems**  
CH 22 & 23 Connect Due 10/27

**LAB 11 Animal Structure**  
Lab 11 Workbook Due 10/27

**CH 24 Maintenance Systems**  
**CH 25 Digestion & Nutrition**  
CH 24 & 25 Connect Due 10/27

**LAB 12 Circulatory & Respiratory Systems**  
Lab 12 Workbook Due 10/27

**EXAM 3 over CH 22-25 (available online Oct 28)**

**CH 27 Control Systems**  
**CH 28 Sensory Input & Motor Output**  
CH 27 & 28 Connect Due 11/10

**LAB 13 Sensory and Nervous Systems**  
Lab 13 Workbook Due 11/10

**CH 29 Sexual Reproduction**  
**CH 26 Defenses Against Disease**  
CH 29 & 26 Connect Due 11/10

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

**CH 30 Ecology & Populations**  
CH 30 Connect Due 12/1

**LAB 14 Ecology of Organisms**  
Lab 14 Workbook Due 12/1

**CH 31 Communities & Ecosystems**  
CH 31 Connect Due 12/1

**LAB 15 Ecological Interactions**  
Lab 15 Workbook Due 12/1

**CH 32 Human Impact**  
CH 32 Connect Due 12/1

**EXAM 5 over CH 30-32 (available online Dec 2)**

**FINAL EXAM over CH 14-19, 22-32 (available Dec 5 – Dec 7)**

**NOTE: CH 20 & 21 omitted; CH 26 out of sequence**