



BIOL 1408 – Introduction to Biology I (Online)

Course Syllabus: FALL 2024

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

Dr. Chris T. McAllister (Dr. Mac)

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Phone: 903.434.8286 (voicemail)

Email: cmcallister@ntcc.edu (best way to reach me)

Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday
(feel free to email me anytime)	8:30-9:30am; 1:30-2:30pm	8:30-10:30am; 1:30-2:30pm	8:30-9:30am	8:30-10:30am	None

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

Disclaimer: The instructor reserves the right to alter this syllabus as necessary with full disclosure to the student. This syllabus and schedule is articulated as an expectation of class topics, learning activities, and expected student learning. However, the instructor reserves the right to make changes in this schedule at any time that, within his professional judgment, would result in enhanced or more effective learning on the part of the students. These modifications will not substantially change the intent or objectives of this course and will be done within the policies and procedures of NTCC. *This may include the test schedule or topics of discussion in either lecture or laboratory. Should that happen, the student will be notified.*

Course Description:

4 credit hours: Lecture/Lab: Three hours of lecture and three hours of lab each week.

Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. Lab activities support these topics.

Note: Additional course fee(s) required.

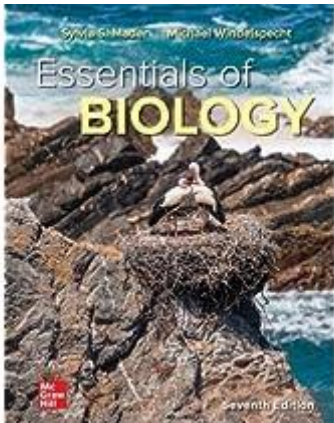
Prerequisite(s): None

Student Learning Outcomes (SLO's):

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. Distinguish between prokaryotic, eukaryotic, plant and animal cells, and identify major cell structures.
5. Identify stages of the cell cycle, mitosis (plant and animal), and

meiosis.
6. Interpret results from cell physiology experiments involving movement across membranes, enzymes, photosynthesis, and cellular respiration.
7. Apply genetic principles to predict the outcome of genetic crosses and statistically analyze results.
8. Identify the importance of karyotypes, pedigrees, and biotechnology.
9. Identify parts of a DNA molecule, and describe replication, transcription, and translation.
10. Analyze evidence for evolution and natural selection.

Required Instructional Materials: Lecture: Mader and Windelspecht, 2024, Essentials of Biology, 7e, McGraw-Hill;
Publisher: ISBN Number: 978-1-266-09331-9 (loose-leaf edition); ISBN Number: Bound edition: ISBN 978-1-264-03972-2



Required Lab Instructional Materials: Science Interactive Kit, #SI-10657-BC-01
(You order this kit from Science Interactive)-see instructions online on Bb-order ASAP!
<https://www.scienceinteractive.com/>

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 TEAMS
- Access to printer if hard copies of assignments are desired

Required Computer Literacy Skills: Blackboard; Microsoft Office; TEAMS

- 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 TEAMS
- Competent and professional emailing skills
 - Emails should have the following format in subject line: Last Name, First Name -Course ID
 - Example: McAllister, Chris - BIOL 1408.001

Student Expectations:

- Adhere to Classroom Etiquette including Zoom or TEAMS 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 and those found in violation will receive a zero for that exam, one time. Do not risk a second violation!

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 1st day of the semester. **You will work at your own pace and can always work ahead but never get behind.** Activities and Assignments are not timed and all are due at the end of the semester (see below). The chapter quizzes each consist of 20 questions with a 25 min. timer. **All Connect chapter assignments are due at the end of the semester on Thursday, December 5th at midnite.**

Lecture Tests/Exams:

The lecture exams may include both objective questions (multiple choice, matching, etc.) over text materials, and readings as well as the powerpoint for that chapter. 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 Respondus Lockdown Browser**. 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. **Regular Exams will open on Thursday and close the following Sunday at 5pm. The Sunday due dates are firm – no makeups for missed exams will be allowed.** The final exam dates will be posted.

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 the end of the semester. This date is firm – no makeups for missed labs will be allowed.**

Proctored Final Exam:

The final exam will be accessed through blackboard. It will be given **online via connect monitored by Respondus Lockdown Browser**. The exam is 100 questions worth 200 points with a 90 min. timer. **The Final Exam will open on Monday, Dec. 9th and close on Wednesday, Dec. 11th at 11:59pm. The Wednesday due date is firm – no makeups for missed exams will be allowed.**

Required Class Report:

You will provide a special written report (word document, no PDF's) in this class on topics provided by the instructor. This a requirement, and counts 100 pts. You will email the report on or before the due date to me at: cmcallister@ntcc.edu. The specs for the report will be posted, stay tuned.

Late Work: I do not accept late work. Deadlines are meant to be met when they are set.

Communications: NTCC email is the official form of communication used by the college. Please utilize my email for communication purposes. I will get back to you within 24 hrs of your email. I do not typically return emails between the hours of 9 pm – 6 am. I have office hours every day on campus – don't hesitate to contact me during my office hrs. Email me at: cmcallister@ntcc.edu

Withdrawal Date: The last day to drop (withdraw from) the course with a grade of “W” is **Tuesday, November 19**. 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.**

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. Dr. Mac adds the following:

Acts violating the expected academic integrity include:

1. Cheating on examinations, quizzes, or other written work;
2. Giving assistance to or receiving assistance from another during an examination or quiz;
3. Plagiarism, defined as:
 - a) The use of another’s published work wholly or in part without proper recognition or documentation
 - b) The use of another student’s work as one’s own
 - c) The purchase, use, or provision of an already prepared paper
4. Obtaining or attempting to obtain copies of un-circulated examinations or examination questions.
5. Falsifying any academic record.
6. Using Artificial Intelligence (AI) to conduct any of the above referenced activities (see below).

Artificial Intelligence (AI) Course Statement:

Writing, analytical, and critical thinking skills are an important part of the learning outcomes of this course; therefore, all writing assignments should be prepared by the student. More importantly, developing strong competencies in this area will prepare you for a competitive workplace. Therefore, the use of any AI-generated submissions are **not permitted** in this class and will be treated as plagiarism. Taking credit for words or ideas that are not your own is plagiarism. The temptation to plagiarize may be heightened with generative AI (*such as ChatGPT, DALL-E, etc.*) because it seems like a victimless crime, but it IS NOT! Students at NTCC are expected to make responsible and ethical academic decisions. Ethics obviously matters and plagiarism will be treated as a serious NTCC offense. In the event of use by any student of AI tools as defined herein, it will result in a zero for that assignment.

AI Enforcement:

I take academic integrity very seriously, and I will address any violations of this policy and follow NTCC's disciplinary policies and procedures. If you have any questions about the information, policies, and guidelines in this statement, I urge you to contact me to discuss them. This policy goes into effect on the first day of this course, [26 August, 2024]. I trust that each of you will make ethical decisions about the use of AI tools in this course and I'm looking forward to a rewarding experience for everyone, including myself.

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.

Evaluation/Grading Policy:**LECTURE: (50%)**

Connect Online (10%)

4 Lecture Exams + Final (40%)

LABORATORY: (50%)

E-Science Lab Exercises (40%)

Required Class Report (5%)

SLO's (5%)

***Letter Grade Assignment:**

A = 90-100%

B = 80-89%

C = 70-79%

D = 60-69%

F = <59%

***Final Grade will be rounded up if you took a major part in completing all assignments on time, took all exams, etc.**

Institutional/Course Policy:

Northeast Texas Community College is a "community of scholars." Please remember that you and all of the students in this class are pursuing very important goals in your lives. All colleges and universities must remain diligent in their pursuit of assuring the academic integrity of their courses to maintain their accreditation status with Southern Association of Colleges and Schools and the Texas Higher Education Coordinating Board. Your success can be maximized and your potential achieved by making the commitment to meet these

expectations:

Schedule and plan to complete all lecture and laboratory assignments and submit them when they are due. Be sure to print off the calendar to help you keep up with assignment due dates. Late work will not be accepted. Be sure to do all of your own work. Collusion and plagiarism are acts of academic dishonesty. Work that is copied and pasted directly from any website is not acceptable in any form on any assignment, lab or test. See the Student Handbook, p. 90 for definitions of collusion, plagiarism, and cheating. Infractions can result in severe grading penalties or failure.

Eagle ASSIST:

At Northeast Texas Community College, we understand that students often need support that extends beyond the classroom. “Eagle Assist” is the place to start when looking for that type of assistance. Our support system is here to help you succeed in both your academic and personal growth.

Services provided at <https://www.ntcc.edu/student-services/eagle-assist>

- Mental Health Counseling (visit www.thevirtualcaregroup.com/ntcc to activate your account)
- Classroom Accommodations
- NTCC Care Center Food Pantry
- NTCC Care Center Hygiene Closet
- NTCC Care Center Cook Nook
- Financial Literacy
- Child Care Assistance
- Emergency Aid

Send us a message at eagleassist@ntcc.edu *Dual credit students please email jstewart@ntcc.edu if interested

Tentative Course Timeline:*

(Note:* instructor reserves the right to make adjustments to this timeline and/or topics at any point in the semester):

Check Blackboard posting and I suggest printing out all class materials, including the syllabus.

Week # Sun-Sat	Lecture Topic-Pp notes, and text Chapters with Connect Assignments	Lab Online (Kit)
Week 1 Mon. Aug. 26- Sat. Aug. 31	Chapter 1: The Science of Life Powerpoint Connect Assignments Syllabus Policy Due: Sept. 1	Get your lab kit ASAP!
Week 2 Sept. 1-7	Chapter 2: Chemical Basis of Life Powerpoint Connect Assignments	Lab 1: Getting started Lab 2: Lab Safety
Week 3 Sept. 8-14	Chapter 3: Organic Molecules of Life Powerpoint Connect Assignments	Lab 3: Using the V-Scope Lab 4: Lab Kit Inventory
Week 4 Sept. 15-21	Chapter 4: Inside the Cell Powerpoint Connect Assignments Exam 1: 9/19-9/22	Lab 5: Chemical Fundamentals Lab 6: Biological Macromolecules
Week 5 Sept. 22-28	Chapter 5: The Dynamic Cell Powerpoint Connect Assignments	Lab 7: Cell Type, Structure and Function
Week 6 Sept. 29-Oct. 5	Chapter 6: Energy for Life Powerpoint Connect Assignments	Lab 8: Intro to Microscopy

Week 7 Oct. 6-12	Chapter 7: Energy for Cells Powerpoint Connect Assignment Exam 2: 10/10-10/13	Lab 9: Cell Membrane Transport
Week 8 Oct. 13-19	Chapter 8: Cellular Reproduction Powerpoint Connect Assignments	Lab 10: Photosynthesis
Week 9 Oct. 20-26	Chapter 9: Meiosis Powerpoint Connect Assignments	Lab 11: Enzymes
Week 10 Oct. 27-Nov. 2	Chapter 10: Patterns of Inheritance Powerpoint Connect Assignments Exam 3: 10/31-11/3	Lab 12: Cellular Respiration and Metabolism
Week 11 Nov. 3-9	Chapter 11: DNA & RNA Powerpoint Connect Assignments	Lab 13: Mitosis and Meiosis
Week 12 Nov. 10-16	Chapter 12: Biotechnology & Genomics Powerpoint Connect Assignments Exam 4: 11/14-11/17	Lab 14: Mitosis and Meiosis (con't)
Week 13 Nov. 17-23	Chapter 13: Mutations and Genetic Testing; Powerpoint Connect Assignments	Lab 15: Mendelian Genetics
Week 14 Nov. 24-30	Chapter 14: Darwin & Evolution Powerpoint Connect Assignments	Lab 16: DNA, RNA, and Protein Synthesis
Week 15 Dec. 1-7	Chapters 15/16: Evolution on a Small & Large Scale; Powerpoint Class Report due: 12/1@ midnite All Connect and Lab Assignments due on Thursday, 12/5 by midnite	Lab 17: Population Genetics and Natural Selection
Week 16 Dec. 9-11 (Finals week)	*****OPEN BOOK FINAL EXAM***** (Chapters 14-16, you must take exam either day on Monday, Tues, or Wed, Dec. 9-11 [by 5pm on 11th])-no makeups!	

DISCLAIMER NOTE: The instructor reserves the right to alter this syllabus as necessary with full disclosure & prior notice to the student.

*Various module assignments on specific dates beyond exams will be given throughout the semester and posted online on Bb.

**Major exam dates are tentative and subject to change, if necessary.

***Modifications of the above schedule may be made and the material covered on any exam, including dates for major examination

Notes:

