



Syllabus: Concepts of Biology I Lab

Course Number: BIOL 1108

Semester & Year:

Instructor Information

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Office Hours:

Textbook Information

We will be using the Inquiry into Life laboratory manual by Sylvia Mader (14th edition). It can be purchased from the TC Bookstore. ISBN: 978-0-07-751624-6.

Student Learning Outcomes for the Course

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.

Student Requirements for Completion of the Course and Due Dates

Dates are subject to change

Weeks	Units Covered	Quizzes and Exams
Week 1	Scientific Method	
Week 2	Metric System, Microscopes	Lab quiz 1
Week 3	Cell Composition	
Week 4	Cell Structure	Lab Exam 1
Week 5	Cellular Respiration,	
Week 6	Enzymes	Lab quiz 2
Week 7	Photosynthesis	

Week 8	Mitosis	Lab Exam 2
Week 9	Meiosis	
Week 10	Human Genetics	Lab quiz 3
Week 11	Patterns of Inheritance	Lab Exam 3
Week 12	DNA	
Week 13	DNA Technology	Lab quiz 4
THANKSGIVING	NO SCHOOL	
Week 14	Evolution	Lab quiz 5
Week 15	Review	Lab Exam 4
Week 16	FINALS WEEK	

Note: This outline is subject to change for reasons of course interest, time constraint, or instructor decision. The exams will be administered on the dates given, unless material relevant for a given exam has not been covered. Under such cases, an exam may be moved a class period or two to aid in the clarity and understanding of the material.

Student Assessment

Students will be evaluated on a combination of lecture examinations, quizzes, articles and other class assignments, and a comprehensive final examination.

This course is worth a combined total of 600 points. All lecture tests may include multiple choice, essay, short answer, and labeling questions.

The point breakdown is as follows:

Lab write-ups, worksheets

50 points

Lab quizzes

100 points

Exam 1

100 points

Exam 2

100 points

Exam 3

100 points

Exam 4

100 points

Participation (attendance, discussion, etc.)

50 points

600 points

Grade	
A	90-100
B	80-89
C	70-79
D	60-69
F	59-below

Each absence is worth 3 points off on your participation grade in the course.

Power Point slides, out of class assignments, and study guides will all be available on <https://tconline.texarkanacollege.edu/> If you have problems accessing the materials, please let me know.

Attendance Policy

Roll will be taken during each class. It is recommended that students contact the instructor if missing a class is necessary. A student with four absences may be dropped from the class for lack of attendance. If an enrolled student stops attending class and chooses to receive an F, the last date they attended will be listed on the final grade sheet and they will most likely have to pay back money received from grants or scholarships. If a student leaves and returns during class or leaves the class before the class is over, he/she **may** be considered absent. Three tardies constitute one absence.

Excused Absences: A student’s absence due to school trips and/or school business will not be counted against a student’s allowable number of absences. Military duty and absences for Holy Days (FBD LEGAL) are covered in a separate section of the catalog and the student handbook. These are the only excused absences that are considered by Texarkana College. Responsibility for work missed for any absence is placed on the student. Instructors are required to allow students to make up work missed if the absence is due to military duty or religious holy days when students follow the correct notification procedures. Instructors are not required to allow students to make up work for absences due to other reasons.

MAXIMUM ALLOWABLE ABSENCES

After official registration, the following number of unexcused absences will be the maximum allowable before a student **may** be dropped from the class. Mandated program certification requirements detailed for certain programs regarding the maximum allowable unexcused absences takes precedence over the following information.

Academic Classes

A COURSE THAT MEETS FOR THE FULL 16 WEEK SEMESTER	
Class or Lab Meets:	An instructor may withdraw a student from a course if absences exceed:
Once a week (Night classes or Friday classes)	2
Twice a week (MW or TR classes)	4
Three times a week (MWF or TRF classes)	6
Four times a week (MTWR classes)	8
	Three tardies count as one absence

Make-up Policy

Make-up exams should not be required. One makeup test or quiz for full credit will be allowed. If any additional makeup tests or quizzes must be administered, they will be worth 80% of the actual score on the exam. Make-up exams may differ in format from the original test. All make-up exams will be recorded as a zero until they are made up. Late work will result in a deduction of points.

Class Behavior

There will be a zero tolerance policy for any behavior that is disruptive and prevents or deters classroom learning. This behavior includes, but is not limited to, any use of vulgar language or rude behavior towards the instructor or any other student in the class. Violation could result in being asked to leave the class, withdrawal from the course, and/or investigation by the Dean of Students.

Cell Phone Policy

All cell phones will be turned off and kept out of sight in class. If any phones are out while testing, I will assume you are cheating. There will be no talking on phones or texting while lecture and discussion is taking place. If you cannot abide by this policy, you will be asked to leave.

Academic Integrity Statement

Scholastic dishonesty, involving but not limited to cheating on a test, plagiarism, collusion, or falsification of records will make the student liable for disciplinary action after being investigated by the Dean of Students. Proven violations of this nature will result in the student being dropped from the class with an “F”.

This policy applies campus wide, including TC Testing Center, as well as off-campus classroom or lab sites, including dual credit campuses. This information can be found in the Student Handbook at <https://texarkanacollege.edu>.

Student Responsibilities

It is the student’s responsibility to know and comply with the instructor’s policy and to contact the instructor to make up missed work.

Disability Act Statement:

Texarkana College complies with all provisions of the Americans with Disabilities Act and makes reasonable accommodations upon request. Please contact Larry Andrews at (903) 823-3450 ext. 3349, or go by the Recruitment, Advisement, and Retention Department located in the Administration building for personal assistance.

If you have an accommodation letter from their office indicating that you have a disability which requires academic accommodations, please present it to me so we can discuss the accommodations that you might need for this class. *It is best to request these changes at the beginning if not before the start of class* so there is ample time to make the accommodations.

Financial Aid

Attention! Dropping this class may affect your funding in a negative way! You could owe money to the college and/or federal government. Please check with the Financial Aid office before making a decision.

Disclaimer

The above syllabus, policies, schedule, and assignments in this course are subject to change in the event of extenuating circumstances or by mutual agreement between the instructor and the students.