University of North Texas at Dallas Fall 2024

BIOL 1720: Biology for Science Majors II: Section: 0001 3Hrs

Department of	**Life Sciences**	**Division of**	**Liberal Arts and Sciences**

Instructor Name:	Dr. Melissa Lewallen
Office Location:	Founders Hall 244
Office Phone:	972-338-1367
Email Address:	melissa.lewallen@untdallas.edu or via Canvas messages
Office Hours:	Mondays 4-6 PM & Wednesdays, 12-2 PM, or by appointment
Classroom Location:	**Founders Hall 213**
Class Meeting Days & Times:	**Monday & Wednesday, 2:30-3:50 PM**
Course Catalog Description:	An integrated approach to cell and molecular biology with an emphasis on biological chemistry, cell structure and function, Mendelian and molecular genetics, and evolutionary biology. For students preparing for advanced study in the biological sciences.
Prerequisites:	BIOL 1710
Co-requisites:	BIOL 1740 laboratory is highly encouraged
Required Text:	Campbell Biology 12th Edition Online platform (you will utilize this to complete your online quizzes & homework, in addition to having access to the book) Please access the "MyLab and Mastering" links in Canvas for purchasing information ISBN 9780135855836

Access to Learning Resources: **Learning Commons:** https://learning.untdallas.edu/	**UNT Dallas Library:** phone: (972) 780-1616 web: http://www.untdallas.edu/library email: library@untdallas.edu **UNT Dallas Bookstore:** phone: (972) 780-3652 web: http://www.untdallas.edu/bookstore e-mail: untdallas@bkstr.com

Supported Browsers: • Chrome **Supported Devices:** • iPhone • Android • Chromebook *Note: Tablet users can use the Canvas app* **Screen Readers:** • VoiceOver (Safari) • JAWS (Internet Explorer) • NVDA (Firefox)	**Getting Help with Canvas:** **Canvas 24/7 Phone Support for Students: 1-833-668-8634** **Canvas Help Resources:** **Canvas Student Guide - https://community.canvaslms.com/docs/DOC-10701** For additional assistance, contact UNT Dallas Distance Learning: DAL1, Room 157 Email: distancelearning@untdallas.edu **If you are working with Canvas 24/7 Support to resolve a technical issue, please keep me updated on the troubleshooting progress.** **If you have a course-related issue (e.g., course content, assignment trouble, quiz difficulties), please contact me during office hours or by email.**

Note: There is no screen reader support for Canvas in Chrome	

Course Goals or Overview:	
	To give students preparing for advanced study in the biological sciences a broad base of knowledge within cell and molecular biology with an emphasis on biological chemistry, cell structure and function, Mendelian and molecular genetics, and evolutionary biology.

Student Learning Objectives:	
1	Understand basic concepts of science as a way of knowing cell biology, biochemistry, molecular biology, genetics, and evolutionary biology.
2	Develop skills in scientific reasoning and experimental design.
3	Develop skills in scientific writing.
4	Practice and demonstrate competence of Common Core Objectives including critical thinking skills, communication skills, empirical and quantitative skills and teamwork

SCHEDULE

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated in class.

Topics	**Timeline**	**Mastering Biology Reading Quizzes & Homework; Exams**
Introduction to Course Chapter 14: Mendel and the Gene Idea	Monday 8/26/24	**PURCHASE ACCESS AND REGISTER ON THE MYLAB & MASTERING WEBSITE**
Chapter 14: Mendel and the Gene Idea Chapter 15: The chromosomal basis of inheritance	Wednesday 8/28/24	**READING QUESTIONS CHAPTER 14** **HOMEWORK CHAPTER 14**
LABOR DAY **NO CLASSES**	Monday 9/2/24	
Chapter 15: The chromosomal basis of inheritance Chapter 16: The Molecular basis of inheritance (review Chapter 17 PowerPoint online from BIOL 1710)	Wednesday 9/04/24	**READING QUESTIONS CHAPTER 15** **HOMEWORK CHAPTER 15**
Chapter 16: The Molecular basis of inheritance (review Chapter 17 PowerPoint online from BIOL 1710)	Monday 9/09/24	**READING QUESTIONS CHAPTER 16** **HOMEWORK CHAPTER 16**
Review for Exam 1	Wednesday 9/11/24	***HARD ONLINE DEADLINE FOR ALL CHAPTERS 14, 15, & 16 READING QUIZZES & HOMEWORK IS SUNDAY, 9/15//24 AT 11:59 PM (BEFORE EXAM 1)***
EXAM 1: Chapters 14, 15, & 16 (ON CANVAS) ** you are only responsible for material covered in the lectures from the chapters listed***	Monday 9/16/24	****EXAM 1**** **(ON CANVAS)**

Chapter 22: Descent with modification: A Darwinian view of life	Wednesday 9/18/24	**READING QUESTIONS CHAPTER 22** **HOMEWORK CHAPTER 22**
DR. LEWALLEN OUT OF OFFICE **NO CLASS**	Monday 9/23/24	
Chapter 22: Descent with modification: A Darwinian view of life Chapter 23- Evolution of Populations	Wednesday 9/25/24	**READING QUESTIONS CHAPTER 23** **HOMEWORK CHAPTER 23**
Chapter 23- Evolution of Populations Chapter 26: Phylogeny and the tree of life	Monday 9/30/24	
Chapter 26: Phylogeny and the tree of life	Wednesday 10/02/24	**READING QUESTIONS CHAPTER 26** **HOMEWORK CHAPTER 26**
Review for Exam 2	Monday 10/07/24	***HARD ONLINE DEADLINE FOR ALL CHAPTERS 22, 23, & 26 READING QUIZZES & HOMEWORK IS TUESDAY, 10/08/24 AT 11:59 PM (BEFORE EXAM 2)***
EXAM 2: Chapters 22, 23, & 26 (ON CANVAS) **** you are only responsible for material covered in the lectures from the chapters listed*****	Wednesday 10/09/24	****EXAM 2**** **(ON CANVAS)**
Chapter 27: bacteria and archaea	Monday 10/14/24	**READING QUESTIONS CHAPTER 27** **HOMEWORK CHAPTER 27**
Chapter 28: Protists	Wednesday 10/16/24	**READING QUESTIONS CHAPTER 28** **HOMEWORK CHAPTER 28**
Chapter 28: Protists Chapter 29: Plant diversity: Bryophytes	Monday 10/21/24	**READING QUESTIONS CHAPTER 29** **HOMEWORK CHAPTER 29**
Chapter 29: Plant diversity: Bryophytes Chapter 30: Angiosperms and Gymnosperms	Wednesday 10/23/24	

DR. LEWALLEN OUT OF OFFICE – **NO CLASS**	Monday 10/28/24	**READING QUESTIONS CHAPTER 30** **HOMEWORK CHAPTER 30**

Chapter 30: Angiosperms and Gymnosperms	Wednesday 10/30/24	
Chapter 31: Fungi	Monday 11/04/24	**READING QUESTIONS CHAPTER 31** **HOMEWORK CHAPTER 31**
Review for Exam 3	Wednesday 11/06/24	***HARD ONLINE DEADLINE FOR ALL CHAPTERS* 27, 28, 29, 30, & 31 *READING QUIZZES & HOMEWORK IS SUNDAY, 11/10/24 AT 11:59 PM (BEFORE EXAM 2)***
EXAM 3: Chapters 27, 28, 29, 30, & 31 (ON CANVAS) **** you are only responsible for material covered in the lectures from the chapters listed*****	Monday 11/11/24	****EXAM 3** (ON CANVAS)**
Chapter 32: An overview of animal diversity	Wednesday 11/13/24	**READING QUESTIONS CHAPTER 32** **HOMEWORK CHAPTER 32**
Chapter 32: An overview of animal diversity Chapter 33: An introduction to the invertebrates	Monday 11/18/24	**READING QUESTIONS CHAPTER 33** **HOMEWORK CHAPTER 33**
Chapter 33: An introduction to the invertebrates Chapter 34: Origin and evolution of vertebrates	Wednesday 11/20/24	
Chapter 34: Origin and evolution of vertebrates Chapter 51: Animal Behavior	Monday 11/25/24	**READING QUESTIONS CHAPTER 34** **HOMEWORK CHAPTER 34**
Chapter 51: Animal Behavior	Wednesday 11/27/24	**READING QUESTIONS CHAPTER 51** **HOMEWORK CHAPTER 51**
Catch-up Day if needed	Monday 12/02/24	
Review for Exam 4	Wednesday 12/04/24	***HARD ONLINE DEADLINE FOR ALL CHAPTERS 32, 33, 34, & 51 READING QUIZZES & HOMEWORK IS SUNDAY, 12/08/24 AT 11:59 PM (BEFORE EXAM 4)***
EXAM 4: Chapters 32, 33, 34, & 51 (On CANVAS) **** you are only responsible for material covered in the lectures from the chapters listed*****	Monday 12/09/24	****EXAM 4** (ON CANVAS)**

COURSE EVALUATION METHODS
This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

• **Exams** – Four non-cumulative exams will be given during the assigned times online in Canvas using Lockdown Browser and video proctoring. A computer or iPad with internet access and a working webcam are required to take the exams online. If you do not have access to these, you must make alternative exam arrangements with the professor in advance. While the exams will not be directly cumulative, biology is a subject in which content builds upon itself. Exams are based on lecture slideshow content. An exam review list will be provided in the lecture period directly before the exam period. Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook). Exams will comprise 60% of your overall grade (15% each).

• **Mastering Biology Reading Quizzes & Homework** – Fifteen quizzes and fifteen homework assignments will be completed using the textbook companion Mastering Biology website. These assignments are designed to take ~30-45 minutes and two attempts per assignment are allowed to improve your grade. While you may work ahead and can submit homework and quizzes for a chapter early at any point (up until the night before the exam that chapter is a part of), full credit is only given if the reading quizzes and homework are submitted by the stated deadlines in the schedule above. Please see instructions provided on Canvas for how to register and purchase access to the Mastering Biology website. Master Biology reading quizzes and homework will comprise 34% of your overall grade.

• **Attendance** – You must attend class 85% of the time (at least 20 in-class sessions for lectures and/or exam reviews) to receive full attendance credit. You are allowed to miss 3 classes unexcused without penalty. If you attend more than 20 classes, you will receive 2 extra credit points for each class beyond 20. Attendance will comprise 6% of your overall grade.

• **Extra Credit –** There will be an opportunity to earn up to 5 extra credit points per exam by correctly answering review questions in class on your tablet, laptop, or mobile device throughout the semester. Several extra credit questions are usually presented during each lecture and you must be present to participate. The extra credit questions will also help your understanding of the topics and help prepare you for upcoming exams. To participate, you must register at PollEv.com and respond on an electronic device with internet access in class when the questions are presented. Dr. Lewallen may choose to assign additional extra credit opportunities during the semester which will be announced in class and/or on Canvas.

GRADING MATRIX

Instrument	Value (points)	Total
Exams	4 exams @ 100 pts each	400
Mastering Biology Homework	15 @ 10 points each	150
Mastering Biology Reading Quizzes	15 @ 5 points each	75
Attendance	20 lecture and/or exam review classes @ 2 points each	40
Total:		**665**

Grade Determination:
A = 89.5% or better
B= 79.5%-89.4%
C = 69.5%-79.4%
D =59.5%-69.4%
F = 59.4% and below

Course-Specific Policies

Attendance and Participation Policy:
The University attendance policy is in effect for this course. Please refer to Policy 7.005 Student Attendance at https://www.untdallas.edu/hr/upol.. *Please be courtesy to the professor and your fellow students. Your attention in class is expected and needed to understand the material. Please no texting, web surfing, or talking in class while the professor is speaking (unless you are addressing the professor specifically).*

Exam Policy:
Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Policy 7.005 Student Attendance at https://www.untdallas.edu/hr/upol). *Once an exam has started in class, you are not allowed to leave class without first turning in your exam. If an exam is administered online, the exam will be video proctored and will use Lockdown Browser. You will not be allowed to stop and restart the exam or navigate away from the exam before it is submitted for grading.*

Contacting the Professor:
You may contact me via Canvas messages, email, or telephone. My preferred method is Canvas so that your message does not get buried or missed. I try to return messages as soon as possible, but I may not be immediately available. Therefore, please allow up to 24 hours for a response.

Online Work Due Dates:
Final due dates for online work are set to allow a flexible window of time to complete your work. Please work ahead and follow the initial suggested completion dates. Do not wait until the last minute before the final due date to complete your online work. Unforeseen circumstances or technical issues can arise at the last minute preventing you from completing your work and receiving full credit.

University Policies and Procedures

Students with Disabilities (ADA Compliance):
The University of North Texas at Dallas makes reasonable academic accommodations for students with disabilities. Students seeking accommodation must first register with the Disabilities Services Office (DSO) to verify their eligibility. If a disability is verified, the DSO will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodation at any time, however, DSO notices of accommodation should be provided as early as possible in the semester to avoid any delays in implementation. Note that a student must obtain a new letter of accommodation for every semester and must meet/communicate with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information see the Disability Services Office website at http://www.untdallas.edu/disability. You may also contact them by phone at 972-338-1777; by email at UNTDdisability@untdallas.edu on the first floor of the Student Center.
Canvas Instructure Accessibility Statement: *optional if you do not use Canvas for the course*
University of North Texas at Dallas is committed to ensuring that online and hybrid courses are usable by all students and faculty including those with disabilities. If you encounter any difficulties with technologies, please contact our ITSS Department. To better assist them, you would want to have the operating system, web browser and information on any assistive technology being used. The Canvas Instructure Accessibility Statement is provided at https://www.canvaslms.com/accessibility.

NOTE: Additional instructional technology tools, such as Turnitin, Respondus, Panopto, and publisher cartridge content (i.e. MyLab, Pearson, etc.) may NOT be fully ADA compliant. Please contact our Disability Office should you require additional assistance utilizing any of these tools.

Academic Integrity:
Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures. Refer to the UNT Dallas Academic Integrity Policy in the appropriate Catalog at http://dallascatalog.unt.edu.
Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabrication of information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students.
Web-based Plagiarism Detection*:* Please be aware in some courses, students may be required to submit written assignments to Turnitin, a web-based plagiarism detection service, or another method. If submitting to Turnitin, please remove your title page and other personal information.

Classroom etiquette:
Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive & inappropriate language (swearing) and remarks offensive to others of nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student's Rights, Responsibilities, and Conduct will be referred to the Dean of Students as the instructor deems appropriate (UNTD Policy 7.001 found at https://untsystem.policytech.com/dotNet/documents/?docid=1278&public=true**).**

Classroom Disruption:
Students are expected to always engage with the instructor and other students in this class in a respectful and civil manner to promote a classroom environment that is conducive to teaching and learning. Students who engage in disruptive behavior will be directed to leave the classroom. A student who is directed to leave class due to disruptive behavior is not permitted to return to class until the student meets with a representative from the Dean of Students Office. It is the student's responsibility to meet with the Dean of Students before class meets again and to provide the instructor confirmation of the meeting. A student who is directed to leave class will be assigned an unexcused absence for that class period and any other classes the student misses because of not meeting with the Dean of Students. The student is responsible for material missed during all absences, and the instructor is not responsible for providing missed material. In addition, the student will be assigned a failing grade for assignments, quizzes or examinations missed and will not be allowed to make up the work.
The Code of Student's Rights, Responsibilities, and Conduct **(UNTD Policy 7.001 found at** https://untsystem.policytech.com/dotNet/documents/?docid=1278&public=true**)** describes disruption as the obstructing or interfering with university functions or activity, including any behavior that interferes with students, faculty, or staff access to an appropriate educational environment. Examples of disruptive behavior that may result in a student being directed to leave the classroom include but are not limited to: failure to comply with reasonable directive of University officials, action or combination of actions that unreasonably interfere with, hinder, obstruct, or prevents the right of others to freely participate, threatening, assaulting, or causing harm to oneself or to another, uttering any words or performing any acts that cause physical injury, or threaten any individual, or interfere with any individual's rightful actions, and harassment. You are encouraged to read the Code of Student's Rights, Responsibilities, and Conduct for more information related to behaviors that could be considered disruptive.

Course Evaluations:
Student evaluations of teaching effectiveness are a requirement for all organized classes at UNT Dallas. This short survey will be made available to you at the end of the semester via your campus email, providing you a chance to comment on how this class is taught. I (as the instructor) will not have access to the results of the

evaluations until after final grades have been posted. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider students' evaluations to be an important part of your participation in this class.

Sexual Harassment, Sexual Misconduct, Intimate Partner Violence and Stalking
UNT Dallas is committed to creating a safe learning environment for all members of our community, free from gender and sex-based discrimination, including sexual harassment, domestic and dating violence, sexual assault, and stalking, in accordance with Title IX, Texas laws and University Policies. Please note that all employees are mandated reporters and must report all instances of sexual misconduct, dating violence, sexual assault, domestic violence and stalking to the Title IX Coordinator. If you or someone you know has experienced any form of sex or gender-based discrimination or violence and wish to speak to the Title IX Coordinator, you can email them at titleix@untdallas.edu or file a report here.

Pregnancy, Pregnancy Related Conditions and Parenting Modifications Under Title IX
UNT Dallas is committed to compliance with Title IX, and to supporting the academic success of pregnant and parenting students and students with pregnancy related conditions. If you are a pregnant, have pregnant related conditions or a parenting student (child under one-year needs documented medical care) who wishes to request reasonable related modifications from the University under Title IX, please email the Title IX Coordinator at titleix@untdallas.edu The Title IX Coordinator will work with your professors and academic unit to provide reasonable modifications needed to be supportive of your education while pregnant or as a parent under Title IX.

Bad Weather Policy:
Campus facilities will close, and operations will be suspended when adverse weather and/or safety hazards exist on the UNTD campus or if travel to the campus is deemed dangerous as the result of ice, sleet or snow. In the event of a campus closure, the Marketing and Communication Department will report closure information to all appropriate major media by 7 a.m. That department will also update the UNTD website, Facebook and Twitter with closing information as soon as it is possible. For more information, please refer to http://www.untdallas.edu/police/resources/notifications.

Inclement Weather and Online Classes:
Online classes may or may not be affected by campus closures due to inclement weather. Unless otherwise notified by your instructor via e-mail, online messaging, or online announcement, students should assume that assignments are due as scheduled.

Technology Assistance:
To successfully access the materials in Canvas, UNT Dallas advises that your computer be equipped with the minimum system requirements listed on the first page of the syllabus.

If you have trouble accessing or using components of the course, try using Google Chrome browser. If you still experience technical difficulties, first, notify your instructor.
If the problem is still not resolved, call Distance Learning at the phone number listed on the first page of the syllabus. Also, no matter what browser you use, always enable pop-ups.
For more information see:

- UNT Dallas Canvas Technical Requirements: https://community.canvaslms.com/docs/DOC-10721
- Canvas Instructure Support & Unsupported Operating Systems: https://community.canvaslms.com/docs/DOC-10720

AI Policy:

UNT Dallas acknowledges the evolving capabilities of Artificial Intelligence (AI) technologies and their various effects on student writing and content creation. The Department of Natural Sciences takes a use-with-permission approach to AI. Students are only permitted to use AI technology in the creation of any course content if permitted by the course instructor. If the use of AI technology is detected, without specific instructor permission, the student will be deemed in violation of the plagiarism policy.