University of North Texas
Department of Biological Sciences
Course Syllabus
Biology for Science Majors I - BIOL 1710-501
3 Credit Hours
Meeting Times: TTH: 12:30 PM–1:50 PM
FRLD 260

Instructor: Dr. Regina Oyesanya
regina.oyesanya@unt.edu

Office Hours (FRIP 224)
Tuesday: Check Canvas for weekly times
Thursday: Check Canvas for weekly times
Or by appointment

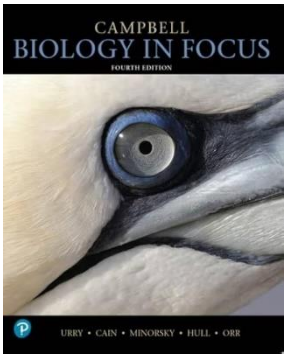
****I am also available immediately after class for quick questions and chat. I am willing to discuss things over email, or by phone.****

COURSE WEBSITES

Primary: http://canvas.unt.edu Others: http://pollEv.com

COURSE PREREQUISITE

None.



REQUIRED COURSE TEXTBOOK

Campbell Biology in Focus, 4th Edition, Urry, Cain, Minorsky, Hull, and Orr with Mastering Biology, published by Pearson, 2024. Available in ebook or print copy. If you would like a print copy, the University has negotiated a special price. You can purchase a loose-leaf version through Mastering Biology via Canvas. You should purchase Pearson's Mastering Biology access as well. Readings follow the topic order in the course schedule. You will be well-prepared for the lecture if you complete the assigned readings before coming to class. Problems will be assigned through Mastering Biology homework platform, and **you must complete them** to succeed in this class.

TECHNOLOGY REQUIREMENTS

This course has digital components. To fully participate in this class, you will need internet access to reference content on the Canvas learning management system and other textbook related resources. If circumstances change, you will be informed of other technical needs to access course content. Information on how to be successful in a digital learning environment can be found at Learn Anywhere (https://online.unt.edu/learn).

COURSE DESCRIPTION

BIOL 1710 is the first half of a two-semester first-year biology sequence designed for science majors, students who require a biology class which will meet the requirements for biology majors. The objective of this course sequence is to provide the student with a broad background in biology that can serve as a prerequisite for higher-level courses in the field. **This course is not designed for non-science majors**. We will start by introducing the major themes of biology—evolution, organization, information, energy and matter, and interactions—and the scientific process. We will then explore these themes in detail by laying a strong foundation of the chemical basis of life and investigate the cell, its structures, and its functions. We will focus on the genetic basis of the cell, studying meiosis, classical genetics, and the chromosomal and molecular basis of genetics and gene expression. We will use examples from various disciplines to learn about the organization, information, and interactions of the cell in real-life context. Mastering the material presented in this course will equip students with foundational skills to succeed in upper-level biology courses. After completing this course, students will have a deeper understanding of the chemical and genetic basis of the cell and be able to explain foundational concepts in biology.

STUDENT LEARNING OUTCOMES

Biological Sciences faculty at UNT have designed this course to prepare you for success armed with the fundamental knowledge of human science, and to help you understand physiological processes in relation to metabolism. After completing this course, students who take full advantage of their instructor's guidance will have the knowledge, skill, and ability to:

1. Describe the characteristics of life.
2. Explain the methods of inquiry used by scientists.
3. Identify the basic requirements of life and the properties of the major molecules needed for life.
4. Compare and contrast the structures, reproduction, and characteristics of viruses, prokaryotic cells, and eukaryotic cells.
5. Describe the structure of cell membranes and the movement of molecules across a membrane.
6. Identify the substrates, products, and important chemical pathways in metabolism.
7. Identify the principles of inheritance and solve classical genetic problems.
8. Identify the chemical structures, synthesis, and regulation of nucleic acids and proteins.
9. Describe the unity and diversity of life and the evidence for evolution through natural selection.

ATTENDANCE POLICY

Attendance is mandatory for this course. Life happens! If problems arise with your attendance, please discuss the situation with me before you have three absences. I have great respect for students who are balancing the demands of their coursework with the responsibilities of caring for family members. If you run into challenges that require you to miss a class, please contact me. There may be some flexibility we can offer to support your academic success. You will be notified by Eagle Alert if there is a campus closing that will impact a class. The course schedule of class meetings is subject to change; please see the Campus Closures Policy (https://policy.unt.edu/policy/15-006).

BEFORE EACH CLASS

You will be well ahead to engage in and enjoy class discussions if you:

I. Access your Canvas daily for activities, updates, announcements and deadlines.
II. Visit Mastering Biology through Canvas to complete your pre- and post- assignments.
III. Have at least 3 questions gleaned from assigned readings and activities ready for next class. Ask me these questions.
IV. Be prepared to participate in class group activities.
V. Contact me at the earliest opportunity if you are having problems with the course work.

WHAT YOU SHOULD TO BRING TO EVERY CLASS MEETING

Being punctual indicates our respect for others. Please arrive before class begins to find a seat, prepare your materials, and connect with your peers. Make sure that you have:

A. Your copy of the textbook
B. Your questions from studying of the concept in focus
C. Outlines and course objectives from Canvas
D. Extra plain papers for drawings, notes, activities
E. 3 × 5 index cards (with or without lines)
F. Sticky notes (any color)
G. Bring your syllabus, notebook, calculator, a stapler, highlighter, pens and sharpened #2 pencils to class each day.
H. PollEverywhere devices (cell phones for polling or laptops for web access)
I. You! COME TO CLASS! Yes, with all civility, bring yourself, always arriving in class on time as a courtesy to others and in order not to disrupt the class.

CELL PHONES, PDAs, BEEPERS, AND OTHER ELECTRONIC DEVICES

While electronic devices are not completely prohibited, their use in class will be reserved and limited to in-class activities including polling or surveys. In respect of others, be sure to put your cell phones and beepers to "silent" mode. No Facebook checking or texting is permitted in class. All activities on PDAs must be class-related. I reserve the right to change this policy without further notice if any infringement or hindrance to other students' capacity to learn is observed. **However, no cell phones or PDAs are to be visible during any graded activity including quizzes and exams. Failure to observe this policy will result in a grade of zero (0) on that activity.**

EMAIL POLICY

Students must use a UNT email address to communicate with the instructor. Please note that emails originating from Yahoo!, Hotmail, Gmail, etc., may not be delivered or acknowledged.

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COURSE EXPECTATIONS

This is a lecture course that requires on-campus attendance at regularly-scheduled face-to-face class meetings. Required coursework includes online learning activities accessed through Canvas, UNT's learning management system. Students require internet access on a laptop or desktop computer (not a mobile device). As with most college courses, it is expected that for every hour we spend in lecture, students will spend 2–3 hours outside of class preparing, studying, and completing assignments. Quizzes should be expected after every chapter taught. Exams are as on the course schedule.

Team-Based Learning and What to Expect During Class Meetings

Tons of scientific data supports the fact that students learn better in groups and teams. The success of a group or team is, however, strongly dependent on individual contributions amongst other factors. I will be your instructor and a facilitator of your learning; but whether or not you learn will be a result of what you put into your own learning process. In this course, the teaching strategy may involve dividing the entire class into teams. Teams will be given assigned readings expected to be completed in/out of class. Team-based learning sessions may occur at least two times during the course. This may involve:

- A short in-class individual assessment, designed to test your preparedness for the team-based learning session.
- Team-based assessment based on assigned activity or reading.
- A group learning problem will then be given to each team followed by a class discussion of the problem.

Expectations

- All work must be completed individually unless noted by the instructor.
- Any indication of plagiarism or cheating will result in a grade of zero and your assignment will be turned into the Office of Academic Integrity.
- Professionalism and confidentiality of proprietary information: We expect students to remain professional, respectful and courteous in all communication with other students and the instructor, including emails and discussion board postings. Please do not communicate any proprietary and/or confidential information from your present or previous employers and/or organizations. You may discuss any information that is in the public domain (e.g., websites, articles). Please consult your instructor if you have any questions.

Course FAQs

ABOUT …	YOUR RESPONSIBILITY	INSTRUCTOR'S	COMMENTS
Enrollment	Check that you are enrolled	Official roster will be used	Only names on official roster will receive a grade for semester
Attendance	Come to class and participate	Communicate in advance.	See "Grading Policy" >20% absences (excused and unexcused) is automatic "F"
Citizenship	Respect instructor; respect classmates	Expected, monitored and graded	Attendance, active participation in class, and adherence to class rules.
Attitudes & Behavior	Civility; no sleeping, talking, texting or distracting other students	Respect	Dressing appropriate to learning in academic environment required; remove sunglasses, caps and wave caps
Use of Cell Phones	Leave the classroom if you have an emergency	Texting not allowed.	Except for instruction only during polling
Absences/Late Class Arrival	Notify instructor **PRIOR** to absence	Point deduction; considered absent after day's quiz	Legitimacy at instructor's discretion; requires proper written documentation
Official Excuse	Turn in within 2 days of return to campus		Legitimacy at instructor's discretion- requires proper written documentation
Assignments Make-ups		Not available	
Quizzes Make-ups		Not available	
In-class Activities Make-ups		Not available	
Final Exam Make-Up		Not Available	
Other Exam Make-ups	**Do not** make travel arrangements that will cause you to be **absent** from exams.	See "Make-Up" below	At instructor's discretion.

Graded Assignments	Obtain work from instructor	Available after class or during office hours	Discarded after one week
Dropping of Lowest Test Grades		Not available	
Extra Credit	Requires extraordinary efforts above and beyond regular course work	Not available to individuals	If offered, it will be for the entire class
Study Guides	Build your study guide	Not available	See "Study Guides" info below
Incomplete or "I" Grade	Passing at least 75% of coursework		At instructor's discretion
Pets or Children		Not allowed	

MAKE-UP POINT DEDUCTION SYSTEM

No make-up for final exams. For all other tests (Exams I–IV), you are allowed to makeup **BEFORE** the exam day with an official excuse. The following deduction system will apply to other tests (Exams I–IV) when excuses are presented **AFTER** exam has been given to the class.

Day	1 (Test Day)	2	3	4	5	6	7
Deduction	20%	5%	5%	5%	5%	5%	5%

STUDY GUIDES

Research has shown that students who attend class are more likely to be successful. Students are strongly encouraged to prepare individual study guides by themselves as instruction is being provided in class. This has been scientifically proven to enhance learning. Students should use course objectives to build effective study guides for exams.

GRADES AND GRADING

Conventional points and category weights are shown below. All assessments will cover material presented in lecture and the textbook.

Professionalism: Worth 50 points and includes timeliness on work and class attendance. Starting at 50 points by submitting the class contract, 7 points is deducted for each missed class meeting and 5 points for each late work (quizzes/homework).

Mastering Biology homework assignments: Worth 100 possible total points; any extra homework completed after reaching 100 points will be extra credit.

Quizzes: Worth 100 maximum points; any extra quiz completed after reaching 100 points will be extra credit.

Classwork: A maximum of 50 points will be earned through in-class activities; this may include Canvas activities.

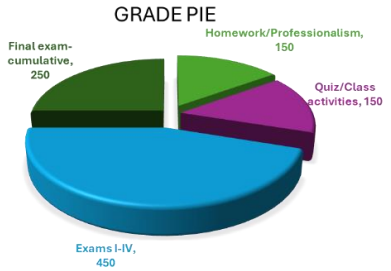
Exams: Three exams, worth 150 points each; will be in class. If a fourth exam is offered, lowest score will be dropped.

Extra credits: If given, this will be for the entire class and will not exceed 30 total points.

There will not be extra credits to individual students, and grades will not be curved due to several opportunities available to build your grade.

A	900–1000
B	800–899.99
C	700–799.99
D	600–699.99
F	<599.99

Homework/Professionalism	150 pts
Quiz/Class activities	150 pts
Exams I-IV	450 pts
Final exam-cumulative	250 pts
Total	**1000 pts**



EXAM FORMAT

Exams: Exams in this course are designed based on the course objectives to assess your accumulation of concepts the necessary to your success in the next phase of your career. Exams may be essay, short answer, and/or multiple-choice type questions. These are not cumulative and will cover only the materials specified on the course schedule. Everyone is expected to be present for these exams at the time they are given. All make-up exams are at the instructor's discretion as described above.

The Final Exam: **THE FINAL EXAM WILL BE CUMMULATIVE** and will be scheduled as dictated by the University. **THERE WILL BE NO MAKEUP OF THE FINAL EXAM. THERE ARE NO BATHROOM BREAKS DURING EXAMINATIONS.**

TUTORING

Consider using the several tutorial programs available on campus free of charge to students in need. You will be required to sign up for individual tutoring if you perform poorly on any quizzes or exam. If you are having problems attending the class and completing assignments, you will be referred to your advisor, and the instructor will follow up on the measures decided for improvements. See https://learningcenter.unt.edu/tutoring

STUDY HINTS FOR SUCCESS

1. Read your textbook assigned readings *before* class. Be an active reader. Read first for pleasure. Then read again for detail, with pen, paper, highlighters. (45 mins)
2. Attend class, pay attention, ask questions, and participate.
3. Take notes, not just in your mind. The pen is the master of the brain (a Chinese proverb). Write your notes down both in class and during self-study! (15 mins)
4. Review your notes in multiple ways. Concepts stick better with repetitive review (30 mins).
    a. Read it in the book
    b. Hear it in class
    c. Review your notes.
    d. Review PowerPoints slides.
    e. Make your own flashcards.
    f. Discuss new topics with friends and family. You will be surprised by what Grandma knows!
    g. Rewrite outlines.
    h. Teach it to a friend.
    i. Explain it to the wall or bathroom mirror!
    j. Design quizzes for yourself or a friend to do later.
5. Review your notes *after* each class (over lunch or snack break or on the bus) - a habit that is critical to success. (10–15mins)
6. Find a study pal or group. Change, if your study buddy is not consistent! Compare and contrast what you learn. Think about your thoughts on new concepts. Integrate, attach and connect new information to your knowledge base. Cross-check with textbook and instructor.
7. Discuss materials and concerns with instructor ASAP.
8. Uphold UNT Honor Code. Report violations you observe.
9. Use tutoring services as available.
10. Get plenty of sleep before exams.
11. How to prepare for exams once you have been faithful to hints 1–10 above
    a. Test your knowledge in the style of the exams with old exams samples
    b. Re-do practice quizzes and assignments and optional assignments
    c. Explain your choices before making a final decision
    d. Get a lot of rest!
12. We are in this together. Come talk with me!

WITHDRAWAL POLICY

See the current UNT calendar for the last day to withdraw. Dropping a class means that you remove yourself from the class up to the census date. Dropped classes do not appear on your official transcript. You may now drop online up to the census date. The last date to drop this class is August 29, 2025. Withdrawal from a class means that you remove yourself from the class after the census date. Withdrawn classes appear as a *W* on your official transcript but are not calculated in your grade point average. Withdrawals are not permitted online. Please read the Fall 2025 Registration guide or contact the admissions office for information on how to withdraw. The last date to withdraw from this class is November 7, 2025. See https://registrar.unt.edu/registration/spring-academic-calendar.html

UNT CODE OF STUDENT CONDUCT

Every student in my class can improve by doing their own work and trying their hardest with access to appropriate resources. Students caught cheating on any exam/quiz will receive a "0" for that particular exam and will not be able to drop that grade. The incident will be reported to the Dean of Students, who may impose further penalties. According to the UNT catalog, the term "cheating" includes, but is not limited to: a. use of any unauthorized assistance in taking quizzes, tests, or examinations; b. dependence upon the aid of sources beyond those authorized by the instructor; c. the acquisition, without permission, of tests or other academic material belonging to a faculty or staff member of the university; d. any other act designed to give a student an unfair advantage. Students who use other people's work

without citations will be violating UNT's Code of Student Conduct (https://policy.unt.edu/policy/06-003). For more information on UNT Code of Student Conduct, please visit https://policy.unt.edu/policy/07-012.

STUDENTS WITH DISABILITIES

The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking reasonable accommodation must first register with the Office of Disability Access (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with a reasonable accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request reasonable accommodations at any time; however, ODA notices of reasonable accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of reasonable accommodation for every semester and must meet with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of reasonable 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, refer to the Office of Disability Access website (https://studentaffairs.unt.edu/office-disability-access). You may also contact ODA by phone at (940) 565-4323.

TENTATIVE COURSE SCHEDULE

Module	Week	Date	Lecture	Chapter	Assessment
1	1	Aug. 19	01 Introduction, Themes of Biology	1	
		Aug. 21	02 Chemical Context of Life	2	
	2	Aug. 26	03 Chemical Context of Life	2	**Homework/Quiz 1**
		Aug. 28	04 Carbon/Molecular Diversity of Life	3	
	3	Sep. 2	05 Carbon/Molecular Diversity of Life	3	
		Sep. 4	06 Tour of the Cell	4	
	4	Sep. 9	07 Tour of the Cell	4	**Homework/Quiz 2**
		Sep. 11	**Exam 1 (Lect. 01-07)**		**Chaps. 1-4**
	5	Sep. 16	08 Membrane Transport/Cell Signaling	5	
2		Sep. 18	09 Membrane Transport/Cell Signaling	5	
	6	Sep. 23	10 Metabolism	6	
		Sep. 25	11 Metabolism	6	**Homework/Quiz 3**
	7	Sep. 30	12 Cellular Respiration	7	
		Oct. 2	13 Cellular Respiration	7	
	8	Oct. 7	14 Photosynthesis	8	**Homework/Quiz 4**
		Oct. 9	**Exam 2 (Lect. 08–13)**		**Chaps. 5–8**
3	9	Oct. 14	*No Classes: Spring Break*		
		Oct. 16	*No Classes: Spring Break*		
	10	Oct. 21	15 The Cell Cycle	9	
		Oct. 23	16 The Cell Cycle	9	
	11	Oct. 28	17 Meiosis and Sexual Reproduction	10	
		Oct. 30	18 Meiosis and Sexual Reproduction	10	**Homework/Quiz 5**
4	12	Nov. 4	19 Mendel and the Gene	11	
		Nov. 6	20 Mendel and the Gene	11	**Homework/Quiz 6**
	13	Nov. 11	**Exam 3 (Lect. 14–19)**		**Chaps. 9–11**
		Nov. 13	21 Chromosomal Basis of Inheritance	12	
	14	Nov. 18	22 Molecular Basis of Inheritance	13	
		Nov. 20	23 Molecular Basis of Inheritance	13	**Homework/Quiz 7**
	15	Nov. 25	24 Gene Expression	14	
		Nov. 28	25 Gene Expression/Gene Regulation	15	**Homework/Quiz 8**
	16	Dec. 2	**Exam 4 (Lect. 20–23)**		**Chaps. 12–15**
		Dec. 4	**Final Exam Review**		
		Dec. XX	**Cum. Final Exam – TBD**		**ALL CHAPTERS**

NOTE: The professor has the right to revise the contents of the syllabus. Notification of any changes will be made in class, by e-mail, and on Canvas.

Your viewing of this syllabus constitutes your signature testifying to your understanding and acceptance of the course policies set herein.