University of North Texas at Dallas
FALL 2025

BIOL 3307 – 0082 Microbiology 3Hrs

Department of	Natural Sciences	School of	Liberal Arts and Sciences

Instructor Name:	Dr. Aubrey Frantz
Office Location:	Room 251, Building 2
Email Address:	aubrey.frantz@untdallas.edu

Office Hours:	**Monday 1:30 – 2:30** **Tuesday 10:00 – 11:30** I will respond to all emails within 24 hours. Emails sent between 8:00am – 5:00pm Monday – Friday will receive a quick reply. *If you would like to schedule a virtual meeting please send me an email to make an appointment.*
Classroom Location:	DAL2 room 212
Class Meeting Days & Times:	Monday 2:30 – 3:50

Course Catalog Description:	**BIOL 3307** – Microbiology. 3 hours. Survey of the microbial world; classification, ecology, morphology and physiology of eukaryotic and prokaryotic microorganisms.

Prerequisites:	BIOL 1710/1730
Co-requisites:	BIOL 3107 Microbiology Lab

Required Text:	**Connect Access Card for Talaro & Chess Foundations in Microbiology, 12th edition –** **ISBN10:** 1265098611 | **ISBN13:** 9781265098612 (*Connect access comes with a copy of the e-text*)

Access to Learning Resources:	UNT Dallas Library:
	    phone: (972) 780-3625;
	    web: http://www.unt.edu/unt-dallas/library.htm
	UNT Dallas Bookstore:
	    phone: (972) 780-3652;

Course Goals or Overview:

The goal of this course is to provide the student with a broad understanding of the microbial world.

Learning Objectives/Outcomes: At the end of this course, the student will be able to

1	Explain the basic concepts of classification, evolution, growth and metabolism of microorganisms
2	Identify the gross morphology and microscopic features associated with different classes of microorganism
3	Describe host-microbe interactions and their relationship to infection, disease and epidemiology
4	Understand mechanisms by which the human immune system defends against microorganisms

Course Outline: *This schedule is subject to change by the instructor. Any changes to this schedule will be communicated by the instructor in class and on Canvas.*

TOPICS	TIMELINE
Course Introduction Chapter 1 Reading **Main Themes in Microbiology (Chapter 1)**	**8/25**
Labor Day – No Class	**9/1**
Chapter 1 HW due before class Chapter 1 quiz due before class Chapter 4 Reading Chapter 4 HW due before class **Prokaryotic Cells and Microorganisms (Chapter 4)**	**9/8**
Chapter 4 quiz due before class Chapter 5 Reading Chapter 5 HW due before class **Eukaryotic Cells and Microorganisms (Chapter 5)**	**9/15**
Chapter 5 quiz due before class Chapter 6 Reading Chapter 6 HW due before class **Introduction to Viruses (Chapter 6)**	**9/22**
Chapter 6 quiz due before class **EXAM I (chapters 1, 4 – 6)**	**9/29**
Chapter 7 Reading Chapter 7 HW due before class **Microbial Nutrition, Ecology and Growth (Chapter 7)**	**10/6**
Chapter 7 quiz due before class Chapter 8 Reading Chapter 8 HW due before class **Microbial Metabolism (Chapter 8)**	**10/13**
NO CLASS	**10/20**
Chapter 8 quiz due by before class Chapter 9 Reading Chapter 9 HW due before class **Microbial Genetics (Chapter 9)**	**10/27**
Chapter 9 quiz due before class **EXAM II (chapters 7-9)**	**11/3**
Last day to withdrawal	*11/7*
Chapter 12 Reading Chapter 12 HW due before class **Drugs, Microbes and the Host (Chapter 12)**	**11/10**
Chapter 12 quiz due before class Chapter 13 Reading Chapter 13 HW due before class **Drugs, Microbes and the Host (Chapter12)** **Microbe-Human Interactions: Infection, Disease and Epidemiology (Ch13)**	**11/17**
Microbe-Human Interactions: Infection, Disease and Epidemiology (Ch13)	**11/24**
Chapter 13 quiz due before class Pathogen Presentations DUE **Review**	**12/1**

EXAM III (Chapter 12 and 13 + Microbes of Medical Importance)	12/8 2:00

Course Evaluation Methods

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

Exams – written tests designed to measure knowledge of presented course material – You will be given three in-class exams. Each exam is worth 100 points. The exams will consist of a combination of multiple choice, labeling and short answer questions. **Attendance is required for all exams.** Make-up exams will only be given for documented emergencies. Any student found cheating on any exam will receive a zero for that exam and may face disciplinary action(s). ***Note: 882-E scantrons and pencils are required for every exam.***

Connect Online Platform - As a hybrid course, you are responsible for completing a component of this course online. We will be using McGraw-Hill Connect as our online platform. You will need to purchase access and enroll in our online section of Connect the first week of the semester. Please follow the instructions below:

Student Registration for Connect through CANVAS
Sign into our Canvas section > Click on the "McGraw-Hill Education" link on the left hand navigation bar > Below "My Connect Section", click **Go to My Connect Section**. Follow the on-screen instructions to register.

Connect Online Homework - you are responsible for completing an online homework assignment for each chapter of the text covered in the course. You have unlimited attempts at each homework question and there is not a time limit. *Online homework must be submitted BEFORE class* (Tuesdays at 11:30 AM). Late submission will not be counted for credit. Please refer to the syllabus and online schedule for due dates.

Connect Online Chapter Quizzes - you are responsible for completing an online quiz for each chapter of the text covered in the course. You have one attempt to answer each of the quiz questions and e-book access during this time is not allowed. ***You have 30 minutes to complete each quiz.*** Online quizzes must be submitted before class the week after the chapter was discussed. Please refer to the syllabus and the Connect online schedule for due dates. Late submissions will not be accepted.

In-Class Participation Activities – short, 5 point in-class participation activities will be given during each class session. There are no make-up activities if you are late or miss class. 9 of these in-class participation activities will be counted toward your grade (45 points). Any additional points will count as extra credit.

Student Presentations – You will be required to give a 10-minute presentation on a medically important (pathogen) microbe. Your presentation will include general characteristics of the microorganism, disease pathology, identification and treatment/control. Presentations will be recorded and submitted on Canvas. Additional instructions and guidelines will be given in class and posted on Canvas.

Grading Matrix:

Instrument	Value (points)
Exam 1	100
Exam 2	100
Exam 3	100
Chapter Homework (9 x 10 points)	90
Chapter Quizzes (9 x 10 points)	90
In class Activities (9 x 5 points)	45
Presentation	75
Total:	**600**

GRADE DETERMINATION
A = 537 points or above = 90% or better
B = 477 – 536.9 points = 80% - 89.5%
C = 417 – 476.9 points = 70% - 79.5%
D= 357 – 416.9 points = 60% - 69.5%
F = less than 357 points = less than 60%

COURSE EXPECTATIONS – *this course will be time consuming*. A general expectation is that for every credit hour earned, a student should spend 3 hours per week working outside of class during a regular 16-week semester. Hence, a 3-credit course might have a minimum expectation of 9 hours of reading, study, etc. for a 16-week semester, beyond the scheduled class time. **Accordingly, your time management is crucial for success in this course. I <u>do not</u> recommend waiting until the due date to complete your assignments for the week. Late assignments will not receive credit and due date extensions will not be granted.**

COURSE ANNOUNCEMENTS
Course announcements (due date reminders, schedule changes, additional instruction, etc.) will be communicated via Canvas Announcements. Please be sure to enable the notification settings for announcements in Canvas. To do this, log into Canvas > Account (global navigation bar) > Notifications > make sure the check mark for Announcements is highlighted green.

E-MAIL COMMUNICATION
When communicating with instructors and other professionals, you are expected to communicate in a professional and formal manner. The best method to communicate with me is via email. ***Please send all emails to my faculty e-mail address aubrey.frantz@untdallas.edu***. I will respond to your email within 24 hours. ***Students are also required to use their UNT-Dallas e-mail account in this class.*** The University of North Texas at Dallas has adopted the University email address as an official means of communication with students. I will not send emails to alternate accounts. Students are responsible for checking their e-mail regularly. Important announcements and course information will be sent via Canvas. You should either routinely log into Canvas or forward your Canvas messages to your e-mails.

University Policies and Procedures

Students with Disabilities (ADA Compliance):
Chapter 7(7.004) Disability Accommodations for Students:

The University of North Texas at Dallas makes reasonable academic accommodation for students with disabilities. Students seeking accommodations must first register with the Disability 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 accommodations at any time, however, DSO notices of 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 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 or at Building 2, room 204.

Canvas Instructure Accessibility Statement:
University of North Texas at Dallas is committed to ensuring its 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. Canvas Instructure Accessibility Statement is also provided.

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.

Course Evaluation Policy: Student's evaluations of teaching effectiveness is a requirement for all organized classes at UNT Dallas. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. 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.

Assignment Policy: Assignments should be completed on time. Late assignments will not receive credit. Assignment extensions will only be granted for documented emergencies.

Exam Policy: *Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook).*

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 Student Code of Academic Integrity at http://www.untdallas.edu/sites/default/files/page_level2/pdf/policy/7.002%20Code%20of%20Academic_Integrity.pdf for complete provisions of this code.

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.

If the use of Artificial Intelligence (AI) technology is detected (without proper citation, specific explanation or permission from the instructor), it will be deemed in violation of the plagiarism policy.

Web-based Plagiarism Detection: Please be aware 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. If plagiarism is detected, the student will be notified and receive a zero on the assignment.

Classroom Policies
Online Attendance and Participation:
The University attendance policy is in effect for this course. Class attendance in the Canvas classroom and participation is expected because the class is designed as a shared learning experience, and because essential information not in the textbook will be discussed in the discussion board. Online presence and participation in all class discussions is essential to the integration of course material and your ability to demonstrate proficiency. *Attendance for this online or hybrid course is considered when you are logged in and active in Canvas, i.e., posting assignments, taking quizzes, or completing Discussion Boards. To maintain financial aid award eligibility, activity must occur before the census date of the session or term of the course. Refer to* [*UNT Dallas' Registrar*](#) *for specific dates. If you are absent/not active in the course shell, it is YOUR responsibility to let the instructor know immediately, upon your return, the reason for your absence if it is to be excused. All instructors must follow university policy 7.005 covering excused absences; however, it is the instructor's discretion, as outlined in the course syllabus, of how unexcused absences may or may not count against successful completion of the course.*

Inclement Weather and Online Classes: Online classes may or may not be effected 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.

Online "Netiquette":
In any social interaction, certain rules of etiquette are expected and contribute to more enjoyable and productive communication. Emails, Discussion Board messages and/or any other forms of written communication in the online environment should use proper "netiquette" (i.e., no writing in all caps (usually denotes yelling), no curse words, and no "flaming" messages (angry, personal attacks). Racial, ethnic, or gender slurs will not be tolerated, nor will pornography of any kind. Any violation of online netiquette may result in a loss of points or removal from the course and referral to the Dean of Students, including warnings and other sanctions in accordance with the University's policies and procedures. Refer to [UNT Dallas Student Code of Conduct](#). Respect is a given principle in all online communication. Therefore, please be sure to proofread all of your written communication prior to submission.

Diversity/Tolerance Policy:
Students are encouraged to contribute their perspectives and insights to class discussions in the online environment. However, offensive & inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student Conduct will be referred to the Dean of Students as the instructor deems appropriate.

Technology Assistance: In order to successfully access the materials in an online or hybrid course, UNT Dallas advises that your computer be equipped with the minimum system requirements listed on the first page of the syllabus. If you experience difficulty 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 Student Assistance (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](#)
- [Canvas Instructure Supported & Unsupported Operating Systems](#)

Incomplete Grades

In order to receive an incomplete in this course, the <u>Grade of Incomplete Form</u> posted on the Registrar forms site must be completed, signed and returned to the Office of the Registrar by the deadline posted in the Academic Calendar. The deadline for this course is April 27, 2023. For other questions related to grade of incomplete, contact Dr. Dawn Remmers Sales, Assistant Provost, at <u>dawn.remmers@untdallas.edu</u>.

STEM Center
The STEM Center offers one-on-one tutoring services for students who have declared a STEM* major. The Center provides academic support for major-related science and math courses. The STEM Center is located in the west wing of Founders Hall, Suite 242A. Please see <u>http://mywco.com/untdstem</u> for specific course offerings and tutor availability. The STEM Center was established in 2022 as a resource and support hub for undergraduate students enrolled in science, technology, engineering, and math (STEM) degree programs at UNT Dallas and for BAT-LSAMP scholars. It aims to increase the personal and professional resources available to these students. The Center currently provides tutoring services, access to STEMinars, access to test prep material for the MCAT, DAT, and PCAT, computer use, laptop checkout, printer access, and free poster printing for STEM students. Please see <u>http://untdallas.edu/stemcenter</u> for more information. *As of Fall 2022, STEM majors include Biology, Information Technology, and Mathematics*