

Biology 2460, Spring 2019
Nursing Microbiology
Section 500 Online
January 14 - March 8

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This course is on Blackboard. To access Blackboard: Go to <http://elearn.uta.edu> and log in with your NetID and password. To begin, click GET STARTED on the left side menu. Take the syllabus quiz before you begin assignments. To access course materials, click the **Unit** links on the left hand side menu.

Course Prerequisites: Biology 1441, Molecular and Cell Biology

Course Description: This course introduces nursing students to various themes in microbiology, emphasizing the interaction of microorganisms with humans and the diseases they cause. Topics include microscopy; survey of various microbes including microbial nutrition, growth, metabolism and genetics; infectious diseases affecting specific body systems; mechanisms of disease transmission and epidemiology. The course is complimented by a virtual laboratory component in which students acquire experience in aseptic techniques, the use of disinfectants and antimicrobial agents, microscopy, and staining techniques.

Student Learning Outcomes: Upon completion of the course students should be able to:

1. Describe and differentiate among the broad classes of microorganisms, including bacteria, protozoa, fungi, helminthes, and viruses.
2. Explain the metabolic processes necessary for microbe survival, focusing on the different methods of energy acquisition.
3. Describe ways microbes can cause infection and pathology in humans and apply this understanding to infection prevention and control in healthcare settings.
4. Identify strategies employed by antimicrobial drugs and how they specifically target certain pathogens and apply this understanding to antimicrobial treatment, drug resistance and interaction with host.
5. Demonstrate knowledge and skills in common laboratory procedures in microbiology.

Required Materials for Lecture & Lab:

1. *Microbiology: A Systems Approach*, 4th ed, by Marjorie Kelly Cowan *You do NOT need an access code for this course. You do NOT have to purchase any lab materials.

You can purchase from the text UTA bookstore, (**ISBN 13: 978-0073402437, ISBN 10: 0073402435**), or use an online site. A used book is fine, no access code is required. There are no materials to purchase for lab, everything you need is available through your course in Blackboard.

COURSE SET UP:

This course has a lecture and a lab component. All of your course materials, exams and assignments are in the Unit links on the left side menu in Blackboard. Each "unit" represents one week in the course. Click the heading Unit 1 and you will be brought to the introduction page for that week that shows you what work is due for that week. Click the headings for the chapters or labs to access the materials for that week. There is one lab each week. If you click the heading Chapter 1 Materials, you will find the lecture recording for that chapter, powerpoint slides for chapter 1 and the quiz for chapter 1 (explained below). If

you click the Lab 1 Materials folder heading you will find lab 1, click it and read that document, that is your lab. It is the same thing as reading the lab in a lab manual. After you read through the lab, you complete any activities and then go back into Blackboard to complete the lab assignment for that week. I encourage you to spend some time navigating the course and becoming familiar with where materials are located.

You may view all materials after submission for one week by clicking grades either in Blackboard directly or through Respondus for the exams and practicals.

MAXIMUM TIMEFRAME FOR RESPONDING TO STUDENT COMMUNICATION:

- Response to student e-mails can be expected within 24 hours, with a 48 hour maximum time frame.
- Response to student assignments may be expected within 72 hours.

GRADING CONVENTIONS:

LECTURE: The lecture section is worth 65% of the total grade and consists of 4 lecture exams and 10 quizzes (one for each chapter).

LAB: The lab section is worth 35% of the total grade and consists of 8 lab assignments and 2 lab practicals.

Everything is worth 100 points and is weighted as follows:

Grading Conventions

4 Lecture Exams	55%
10 Quizzes	10%
8 Lab Assignments	15%
2 Lab Practical	20%

You cannot simply add your points and divide by the total.

Grading Scale:

Percentages	Grade
89.5 - 100	A
79.5 - 89.4	B
69.5 - 79.4	C
59.5 - 69.4	D
0 - 59.4	F

*NOTE: Your total course score is a weighted percentage, therefore an 88% is NOT two points away from an A; it could be up to ten points away. **Grades are pulled right out of Blackboard by MyMav;** there is no way for the instructor to change your grade if you ask for a grade bump.

Exam, Quiz, & Lab Details

All graded materials are due at the end of the specified week. **A "week" in this course begins on a Monday and ends on Sunday at 11:59 pm central time.** The course week schedule can be found on Blackboard under the Calendar link on the left side menu. Your coach will send you a reminder each week on what materials are due, but it is your responsibility to keep up with the work. **Note, the last week of the course is shortened. It is Monday - Friday; you do not have the weekend to complete your work.**

Work will be accepted up to 24 hrs after the due date for all assignments and exams. You will be penalized if you turn in work late, one point per hour past the due date. Late work turned in 24 hrs past the due date will not be accepted.

Lecture Exams: There are four lecture exams. All lecture exams are 50 multiple choice questions. You have **60 minutes** to take each exam. **Blackboard will automatically submit your answers when the allotted time has expired.** **There are NO make-up exams past the 24 hr late deadline.** If you miss an exam, by failing to log on and complete the exam when it is available online, then you will receive a zero for the missed exam. This is a closed book exam and we will be using Lockdown Browser software (instructions below).

If you are kicked out of Respondus during an exam due to a technical issue on your end, click "Student Early Exit" and leave Respondus. Attempt to fix the issue, then log back in as quick as possible to complete the exam, **as the timer keeps running** even if you are not logged in. It is the students' responsibility to ensure they have a strong connection before beginning an exam. I don't recommend taking exams at hotels, on Ipads or a Chrome book, or during storms. Make sure Java is updated as Blackboard runs on Java. Exams will not be reset due to technical difficulties due to the student's outdated technology. Exams that have been submitted cannot be re-opened for additional work to be completed; it is not a feature that Blackboard has, it is not possible.

Exam 1: ch 1-3 (unit 2) Exam 3: ch 7, 9, 12, 11 (unit 7)
Exam 2: ch 4-6 (unit 5) Exam 4: comprehensive final exam (unit 8)

Lecture Chapter Quizzes: These are quizzes on each chapter that we cover in the textbook. You have to answer ten multiple choice questions in twelve minutes. Questions are presented one at a time to get you used to how the exam and lab practical questions will be presented. **You do NOT need Respondus Lockdown Browser for these quizzes.** **There are NO make-up quizzes past the 24 hr late deadline.**

Laboratory Practicals: There are 2 lab practicals, each covers four labs. All laboratory practicals are 40 multiple choice questions each. You have **50 minutes** to complete the lab practical. **Blackboard will automatically submit your answers when the allotted time has expired.** **There are NO make-up lab practicals past the 24 hr late deadline.** If you miss a lab practical, by failing to log on and complete the practical when it is available online, then you will receive a zero for the missed practical.

Unit 4: Lab Practical 1: Labs 1 - 4
Unit 8: Lab Practical 2: Labs 5 - 8

This is a closed book exam and we will be using Lockdown Browser software (instructions below). There is a study guide for each lab practical that tells you exactly what to study (located in the same folder as the practical). If you are kicked out of Respondus due to an internet connection issue, log right back in and keep going, the timer does not stop.

Lab Assignments: There are eight lab assignments, one is due each week. These assignments are not timed. You open the lab in Blackboard, read the information and perform the lab activities. Sometimes it is a case study that you answer questions about, sometimes it is an activity online you must complete and record results and sometimes it is a powerpoint activity. Then you must complete the lab assignment for that lab in Blackboard.

There are NO make-up lab assignments and no late work accepted past 24 hrs late. If you miss a lab assignment, by failing to log on and complete the assignment when it is available online, then you will receive a zero for the missed assignment.

Here are the labs you will complete:

- | | |
|-----------------------|---|
| 1. Microscopy | 5. Environmental Preference for Microbial Growth |
| 2. Aseptic Technique | 6. Control of Microbe Growth |
| 3. Isolation Methods | 7. Identification of Unknowns- Gram negative organism |
| 4. Staining Technique | 8. Identification of Unknowns- Gram positive organism |

Grading Penalties for Lateness: When taking timed assignments/tests Blackboard will automatically submit your answers when the allotted time has expired. These times have been set at a pace that shows me you know the answer without looking up information in your book. If you cannot complete the assignments in this time frame, you do not know the material well enough.

Your calculated grade on all course materials will be reduced by a penalty of **1 point per hour**, for every hour that you exceed the due date up to 24 hours. **After that 24 hours (Monday 11:59 pm central time), late work may NOT be submitted.** If you submit work a day late, that is a 24 point deduction. Remember, a "week" in this course begins on Monday and ends on Sunday at 11:59 pm central time. All materials for each week are due at the end of the week. The weekly schedule is listed under the Calendar tab in Blackboard on the left side menu.

Check Your Answers: Please check your answers before submitting your exam or practical. If you mistakenly select the wrong answer, you will NOT be awarded any points back. Blackboard CANNOT change your answers. If you think an answer changed, it was a human error not a technical one. Sometimes students change their answers by scrolling with the mouse, so double check before you submit.

ACADEMIC INTEGRITY: It is the philosophy of The University of Texas at Arlington that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures. Discipline may include suspension or expulsion from the University. "Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts." (Regents' Rules and Regulations, Part One, Chapter VI, Section 3, Subsection 3.2, Subdivision 3.22)

Respondus Lockdown Browser: Web cam not required. We are using the Respondus Lockdown Browser in this course for the four lecture exams and the two lab practicals. You must install this free software to gain access to these tests by going to this link:

<http://www.respondus.com/lockdown/download.php?id=163943837>

For problems and/or how-to questions, refer to the Respondus Support portal at:

<http://support.respondus.com>

To make sure the software is installed properly before you take your first exam, you need to take the syllabus quiz **located in the Syllabus link**. This is pass/fail and does not count towards your course grade. However, your failure to take the syllabus quiz and then possibly not be able to take your first exam on time because the Lockdown Browser isn't working is your own fault and late penalties will be applied. I highly recommend you get this taken care of the first week of the course.

BLACKBOARD TECHNICAL ISSUES: Because you have signed up for an online course, your internet service and connection are your responsibilities. Make sure you have updated, fast, reliable service. HAVE A BACKUP PLAN just in case your internet connection goes out. This has happened due to power outages and weather. Plan accordingly.

It is your responsibility to go through the Student Resources and FAQ's on the menu to learn how to use Blackboard. You are taking an online course; you must know how to use your platform. I expect you are responsible enough to do this on your own and will assume you have done so *before* your begin the course. Please do not email me with technical questions without trying to determine what you may have done first to receive an error message. You may call the help desk at any time and seek assistance: helpdesk@uta.edu or 817.272.2208. Make sure you have an updated version of Java; Blackboard requires Java to run. Do not double click in the testing environment. It slows Blackboard down. Don't use the up/down arrows to scroll through questions; it will change your answer submission.

You should not receive any error messages if you follow the directions below and familiarize yourself with the testing environment. **I cannot award points or let you retake exams or practicals due to your own technical difficulties.**

If you click on an assignment or an exam, you are going to open it and the clock will start! You will have to take it whether you are prepared or not. **Be careful that you are opening the correct exam or assignment!**

Dropping the Course: Please note that the **last day to withdraw from class with a "W" is February 18th**. Be aware that after this date you will receive an academic grade in the course. Initiating the drop procedure is the student's responsibility and must be done by contacting the student's academic advisor.

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