

MICROBIOLOGY - Biology 271
FALL SEMESTER 2007

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Texts required:

Foundations in Microbiology - Tolaro. 6th edition.
Microbiology Laboratory Manual. H.U. Department of Biology-Moore. 2007-2008.

Optional purchase:

Photographic Atlas for the Microbiology Laboratory. Leboffe and Pierce. 2nd edition.
Lecture and PowerPoint Outlines, Moore. 2007-2008
Medical Dictionary (i.e., Tabor's)

Prerequisites:

A "C" or better in Chemistry 215, Chemistry 301, or Biology 259 is required before taking this class. If a student has not successfully completed any of these prerequisites, the student must receive the instructor's permission to attend the class and sign a waiver that states that the student understands the conditions under which they are entering the class. The instructor has the right to drop any student that has not successfully completed these requirements.

Class agenda and policy:

Microbiology and its related disciplines are currently some of the most active and exciting areas of biology and biomedicine. Because of the vast nature of the study, this course is not intended to, nor can it, cover the entire subject matter. Despite these shortcomings, students will be responsible for all material covered in class and all textbook material covered in the lecture. Only material covered in lecture will be presented on exams unless specifically stated. Students are encouraged to read the presented textbook chapters, although this material is meant only to support the lecture material. Material presented in lecture may differ from material presented in the text or outline. For this reason, class attendance is strongly encouraged. Absenteeism will reflect itself on the final average.

<u>Evaluation of student progress:</u>	<u>% of Grade</u>
Exam 1	12.5
Exam 2	12.5
Exam 3	12.5
Exam 4	12.5
Weekly Quizzes*	10.0
Comprehensive Final Exam	15.0
Laboratory performance and exams	<u>25.0</u>
	100.0

Exams:

Scheduled class and laboratory exams will be given only as scheduled. No make-up exams will be given. The first 2 exams will be held in the evenings. If a student has unavoidable class or work conflicts, the exam may be taken the afternoon of the exam. No other allowances will be made to take the exam early. Should a student be absent for an exam for any reason, the point value from that exam will be added to the point value of the final exam. Exams will be reviewed the day in which they are returned. Exams are the property of the instructor and are intended solely as a measure of your mastery of the subject. Exams will be retained by the instructor and will not be available to you after the review of the exam. Students will have one week following review of the exam to appeal any questions. Exams will be destroyed after this one-week appeal period. Verbatim copying of exam questions during exams or reviews will not be permitted.

Exam 1 will cover Chapters 1, 3, 4

Main themes in Microbiology, Microscopy, Prokaryotic Cell Structure

Exam 2 will cover Chapters 7 and 8

Microbial Nutrition, Ecology, Growth, and Metabolism

Exam 3 will cover Chapters 9, and 10

Microbial Genetics and Genetic Engineering

Exam 4 will cover Chapters 6, p24, p25, 12, 13

Virology, Chemotherapy, Microbe-Host Interactions

The Final Exam will cover Chapters 14, 15, 16 as well as all previous material

Elements of Innate and Acquired Immunity, Disorders in Immunity

Notice:

Chapter 2 will not be covered in this course. This material is critical to the understanding of microbiology and should have been covered in previous course work. Please review the material in Chapter 2 if the material presented in Chemistry 215 or Biology 259 was difficult or it has been some time since you have covered this material.

Quizzes:

One weekly quiz will be given each week. Quizzes will not be given on the week of a major lecture exam. Quizzes will be scheduled for the Friday of each week. There will be 10 questions per quiz. The weekly quizzes have an additional leverage (*) in that if your final weekly quiz average is better than one of your 4 regular exam grades, then that grade will be replaced by your weekly quiz average. Therefore, the final quiz average will count as either 10% or 22.5% of your final grade. There will be ten weekly quizzes of which the highest eight scores will be counted. If you are absent on a quiz day for any reason (with the exception of school-sponsored trips), that quiz grade will count as one of your drop scores. If a student has more than 2 drop scores due to absence, the student will receive a zero for any additional dropped quizzes. Two of the quizzes be cover required readings from Nature Reviews. These reviews are located in the back of the printed PowerPoint lecture notes. Students will be notified at least 2 weeks prior to testing on a specific review paper.

Grade Scale:

90.0 - 100	A
80.0 - 89.99	B
70.0 - 79.99	C
60.0 - 69.99	D
<60.0	F

No deviations will be made in the grade scale.

Student Performance:

It is important to remember that the student, not the professor is responsible for their performance and resulting grade in this class. Consistent effort must be made to achieve required results. The instructor will make every effort to present the material such that the student can understand the information and apply that information to their career goals. At the same time, it is imperative that the student engage him or herself in the class by keeping up with the information presented, asking questions, and working through suggested study questions. **Do not be a passive learner!** Use the class period to begin retaining the information. If the student has performed poorly on an exam or is having difficulty grasping the material, it will be in their best interest to make an appointment with me to correct these problems. In addition, tutors will be available for this class. For further information please ask the instructor or contact the Academic Resource Center, ext. #4220. Do not wait till late in the semester to recover poor grades.

Students with Disabilities:

It is the policy for Harding University to accommodate students with disabilities, pursuant to federal and state law. Therefore, any student with a *documented disability* condition (e.g. physical, learning, psychological, vision, hearing, etc.) who needs to arrange reasonable accommodations, must contact the instructor and the Disabilities Office at the *beginning* of each semester. (If the diagnosis of the disability occurs during the academic year, the student must self-identify with the Disabilities Director *as soon as possible* in order to get academic accommodations in place for the remainder of the semester.) The Disabilities Office is located in Room 102 of the Lee Academic Center, telephone, (501) 279-4019.

Honor policy:

Each exam will be preceded by the following statement:

“I, the undersigned, promise that the work contained inside this exam is my own individual work. I did not use or attempt to use any unauthorized materials or aids. I did not commit plagiarism. I did not obtain information from students about the content of the exams. I did not intentionally help or attempt to help another student commit an act of academic dishonesty. I understand that if I have violated any of the above statements or any other statements covered in the Code of Academic Conduct of the Harding University Catalog, I will receive a grade of zero on the exam and an ‘F’ for the course as stated in the course syllabus. The instructor has the right to report the information to the Dean’s office for further action.”

Be sure that your conduct is such that you can sign such a statement with a clear conscience before God.

In addition:

Please be considerate of others during lectures, exams, and lab exercises. Subject to exercise of administrative judgment, those who persist in the execution of disruptive activities will be dropped from the course. Cellular phones should be turned **off** prior to entering the lecture or lab. Do not leave your phone on vibrate during class as this is disruptive as well. Students whose cell phones ring during class will be asked to leave for the remainder of the class period. Cellular phones, PDAs, and similar devices are not permitted during exam periods. Students will receive a zero for their exam score should they be found with such a device on their person during an exam (even if the device is turned off). Please obtain permission from the instructor beforehand if an emergency situation exists and the presence of a cell phone is required. Also do not bring outside class material to lectures or labs. If you need to study for another class during scheduled microbiology lectures or laboratory periods, please excuse yourself for these class periods.

Student Information Sheet

Name _____

Major _____

Hometown _____

Career Goal _____

Email address _____

I Understand and will comply with the syllabus _____ (initial)

I wish to have my grades posted by "H" Number when applicable (check)___

The last four numbers of my "H" number are _____

List all courses taken in the field of Biology and Chemistry in which you made a "C" or better.