

Northeastern Technical College

Microbiology (w/Lab)
BIO 225
Fall 2007

Instructor: Scott D. Schanz
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Text and Lab Manual: Tortora, Funke, and Case. 2007. Microbiology: An Introduction [9th Ed.]
Johnson and Case. 2007. Laboratory Experiments in Microbiology [8th Ed.]

Course Description: This is a detailed study of microbiology as it relates to infection and the disease processes of the body. Topics include immunity, epidemiology, medically important microorganisms, and diagnostic procedures for identification.

College Wide Learning Outcomes:

- Collect information needed for a given application.
- Analyze information.
- Evaluate information to determine usefulness.
- Apply knowledge to make decisions and solve problems.

Attendance Policy: According to college policy, a student may miss 20% of the scheduled class periods. When a student exceeds this limit, he or she will be dropped for excessive absences. If the student initiates the withdrawal before midterm, a grade of W will be used. After midterm, the grade of W will only be used for students who are passing the course; if a student who is not passing initiates a drop after midterm, he or she will receive a WF.

If the instructor initiates the withdrawal due to excessive absences, at any point during the course, a grade of F will be used for students who are dropped. If a student leaves class or lab early, the hours missed will be counted as part of the hours absent. If a student misses a lab, the work cannot be made up. **The student is responsible for material covered in any class or lab missed.**

Three tardies will equal one absence. Please remember this when you are counting your absences. A tardy is when the student comes into class after class has begun.

Grading Policies:

- Tests *may* consist of multiple choice, fill-in, matching, and/or short answer/essay questions based on lecture, handouts, class activities, text information, and lab.
- A missed lecture test, due to illness or emergency, can be made up during a mutually agreeable time. A **make-up test** will be given. **Verification** of illness or emergency (ie-a note from a doctor) is required in order to take the test at a later date. It is the responsibility of the student to contact the instructor concerning the missed test within 24 hours of the missed test, otherwise a grade of 'zero' will be recorded.
- Any student who arrives late for a test will not receive a test if another student has finished their test and left the room.
- In order to receive credit for lab, it is expected that each student will *actively* participate during lab periods.
- **Missed labs, including the lab midterm/final, cannot be made up.** For those labs involving multiple steps, if a student is present during inoculation but is absent for data collection, he/she will receive half -credit. If a student is absent during inoculation but is present for data collection, he/she will receive half -credit. Both of these scenarios involve handing in the lab paper prior to or immediately after their absence.
- Other assignments will lose 20% per class meeting if they are handed in late.
- Cell phones or other electronic devices may not be used during class time. They must be turned off prior to entering class.
- Any student caught cheating during a test or plagiarizing on a paper or lab will be reported to the Vice-President for Student Services for appropriate action. See pages 24-25 in the Student Handbook.

SYLLABUS
(Subject to Change)

Test 1 Week of August 27

Introduction

Chapter 1 The Microbial World and You

Test 2 Week of September 17

Interaction between Microbe and Host

Chapter 14 Principles of Disease and Epidemiology
Chapter 15 Microbial Mechanisms of Pathogenicity
Chapter 16 Innate Immunity: Nonspecific Defenses of the Host
Chapter 17 Adaptive Immunity: Specific Defenses of the Host

Test 3 Week of October 08

Fundamentals of Microbiology

Chapter 4 Functional Anatomy of Prokaryotic and Eukaryotic Cells
Chapter 5 Microbial Metabolism
Chapter 6 Microbial Growth
Chapter 7 The Control of Microbial Growth

Test 4 Week of October 29

A Survey of the Microbial World; Microorganisms and Human Disease

Chapter 11 The Prokaryotes: Domains Bacteria and Archaea
Chapters 21-26 Selected Bacterial Diseases

Test 5 Week of November 12

A Survey of the Microbial World; Microorganisms and Human Disease

Chapter 13 Viruses, Viroids, and Prions
Chapters 21-26 Selected Viral Diseases

Test 6 Week of December 03

A Survey of the Microbial World; Microorganisms and Human Disease

Chapter 12 The Eukaryotes: Fungi, Algae, Protozoa, and Helminths
Chapters 21-26 Selected Fungal and Protozoan Diseases

Comprehensive Final Final Exam Period

Final Average

Lecture Test Average	45%
Comprehensive Final	20%
Lab Grade Average	25%
Paper/Presentation	10%

Lab Average

Lab report average	50%
Lab midterm (10/08)	25%
Lab final (12/03)	25%

Grading Scale

92-100	=A
83-91	=B
74-82	=C
65-73	=D
below	=F