

AHS 1053: INTRODUCTORY MICROBIOLOGY

SYLLABUS FALL, 2007

PROFESSOR: Dr. M. Neal Guentzel
CLASS: Rm. 2.02.02 SB, 2:00 - 3:15 pm, Monday, Wednesday
OFFICE HOURS: Rm. 2.03.24 BSB (Biosciences Building), 1:30 - 3:30 pm, Tuesday
OFFICE PHONE: 458-5658 (or 4473) **E-MAIL:** neal.guentzel@utsa.edu
TEXTBOOK: Microbiology, An Introduction (9th. Ed.) by Tortora, G. J., et. al., 2007. Benjamin Cummings, San Francisco, Calif.

COURSE OUTLINE

TOPICS	CHAPTERS
I. Introduction, History, and Scope of Microbiology	1
II. Microscopy	3
III. Functional Anatomy of Prokaryotic and Eukaryotic Cells	4
IV. Microbial Classification and Survey of Major Groups [Bacteria, Fungi, Algae, Protozoa, Helminths, Viruses Viroids, and Prions]	10-13
Exam I	
V. Nutrition and Growth of Microbes	6
VI. Chemical Principles and Microbial Metabolism	2,5
VII. Microbial Genetics	8
VIII. Genetic Engineering/Biotechnology/Industrial Micro	9,27-28
Exam II	
IX. Control (Physical/Chemical/Antimicrobials)	7,20
X. Microorganisms and Disease/Epidemiology/Pathogenesis	14,15
XI. Microbial Pathogens, Diseases of Different Body Systems A	21-26
Exam III	
XII. Microbial Pathogens, Diseases of Different Body Systems B	21-26
XIII. Properties of the Host Which Determine Resistance to Microorganisms and Immunology	15-18

FINAL EXAM is Friday December 7, 2007 at 7:30 am - 10:00 pm.

PREREQUISITES FOR COURSE:

BIO 1113 and BIO 1122 (Biology and Laboratory)

GRADING:

1. Exam 1, Exam 2, Exam 3 = 60%.
2. The lowest of the 3 Exam grades is dropped, if all are taken.
3. Final Exam = 40%.

POLICY ON MAKE-UP EXAMS:

1. Normally, if a Exam is missed it will be the one dropped.
2. Make-up Exams are given only under extraordinary circumstances! **Check with me beforehand!**

EXAMINATION SCHEDULE:

1. Specific dates for Exams will be announced two weeks prior to the exam date.
2. Bring a ParSCORE Test Form "compatible with 48/TSM scanners" (green with 50 spaces each side) for each Exam and the Final Exam.

ATTENDANCE POLICY AND CLASSROOM BEHAVIOR:

1. Lecture outlines are provided for each topic area. However, they are **not complete!**
2. You are expected to attend each class and to review the background reading material from the text if you expect to do well in this course. **Failure to attend class will significantly reduce your Performance!!!**
3. Students are expected to assist in maintaining a classroom environment conducive to learning. Turn off cell phones and pagers.

SCHOLASTIC DISHONESTY:

1. Cheating will not be tolerated in any form.

NAMES OF MICROBES:

1. You will be given specific examples of important microorganisms (concentrating on pathogens) throughout the semester. Through repetition in class and your required reading, you will learn to know these organisms and hopefully will leave this class with a working knowledge of major "players" in the microbial world.
2. You will be tested on the specific examples on the 3rd and Final Exam, unless I tell you differently.
3. You will be provided with review sheets of all the organisms discussed in this class before the Final Exam.

GOALS/OBJECTIVES OF THIS COURSE

1. This course will provide an overview of the important and exciting world of microbes and their activities.
2. Students will develop a general knowledge of microbiology to provide a foundation for nursing and other Allied Health careers. CLS, Pre-Med, and Biology majors should take BIO 3713.