

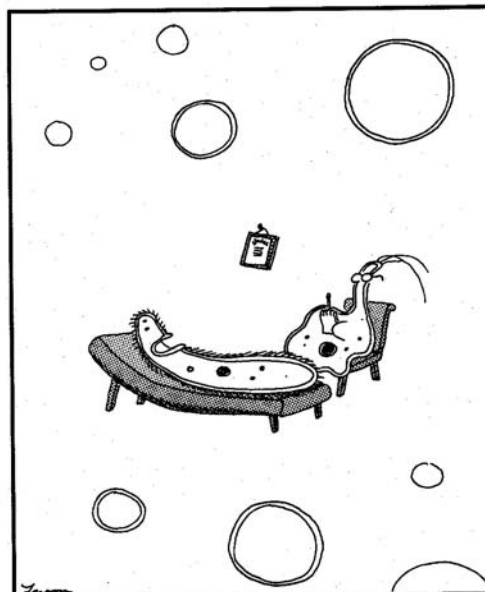
LECTURE AND EXAM SCHEDULE\*

Aug 24	Introduction (History, Overview of Microbes)
Aug 26	Introduction, Methods of Study
Aug 31	Methods of Study, Microorganisms: Algae, Protozoans
Sep 2	Microorganisms: Parasites, Fungi, Bacteria
Sep 7	NO CLASS – LABOR DAY HOLIDAY
Sep 9	QUIZ #1 (on Intro - Methods); Bacteria, Viruses
Sep 14	Viruses, Bacterial Growth
Sep 16	Bacterial Growth, Bacterial Metabolism
Sep 21	QUIZ #2 (on Microorganisms); Bacterial Genetics
Sep 23	Recombinant DNA Technology, Epidemiology
Sep 28	NO CLASS – FALL HOLIDAY
Sep 30	Pathogenesis of Disease
Oct 5	Microbial Control, Antimicrobial Drugs
Oct 7	QUIZ #3 (Metabolism - Pathogenesis); Antimicrobial Drugs
Oct 12	Immunology: Introduction, Nonspecific Mechanisms
Oct 14	Immunology: Specific Mechanisms
Oct 19	MIDTERM EXAM (Introduction – Nonspecific Immunity)
Oct 21	Specific Immunology, Immune Disorders
Oct 26	Immune Disorders
Oct 28	Applied & Diagnostic Immunology
Nov 2	Applied & Diagnostic Immunology, Bacterial Diseases
Nov 4	Bacterial Diseases
Nov 9	QUIZ #4 (on Immunology); Bacterial Diseases
Nov 11	NO CLASS – VETERAN'S DAY HOLIDAY
Nov 16	Fungal Diseases, Viral Diseases
Nov 18	Viral Diseases
Nov 23	QUIZ #5 (Bacterial & Fungal Diseases); Viral Diseases
Nov 25	Viral Diseases
Nov 30	Viral Diseases, Parasitic Diseases
Dec 2	Parasitic Diseases, Environmental Microbiology
Dec 7	QUIZ #6 (on Viral Diseases); Environmental Microbiology
Dec 9	Environmental Microbiology; Applied & Industrial Microbiology
Dec 14	at 12:30 FINAL EXAM (Specific Immunity – Applied Microbiology)

\*Subject to minor changes

COURSE OUTCOMES

- The students should be able to describe the historical origins of microbiology, describe techniques for studying microorganisms, and classify microorganisms into their appropriate taxonomic categories.
- The students should be able to discuss bacterial characteristics, factors influencing microbial growth, energy production, variability, and mechanisms of inheritance.
- The students should be able to explain principles and basic techniques of controlling microorganisms by chemical, physical, and chemotherapeutic means.
- The students should be able to discuss the immune system, its principles, and the interaction of its components
- The students should be able to detail the morphology, physiology, and epidemiology of viruses, fungi, protozoans, and helminths
- The student should be able to discuss the modes of transmission of infectious diseases, factors that influence development of infection, and methods that are used to impede the spread of disease.



"Well, I just feel like I'm living under a microscope."

TEXT MATERIAL FOR LECTURE CONTENT

<i>Quiz 1</i>	
INTRODUCTION .....	Ch 1 p2 - 11, Ch 4 p77, table 4.2, Ch10 p278 - 280
METHODS OF STUDY .....	Ch 3; Ch 6 p164-170
<i>Quiz 2</i>	
PROTOZOANS .....	Chapter 12
FUNGI .....	Chapter 12
ALGAE .....	Chapter 12
MULTICELLULAR PARASITES .....	Chapter 12
BACTERIA .....	Chapter 4, Ch 11
VIRUSES .....	Chapter 13
<i>Quiz 3</i>	
BACTERIAL METABOLISM ....	Chapter 5
BACTERIAL GROWTH .....	Chapter 6
BACTERIAL GENETICS .....	Chapters 8 & 9
EPIDEMIOLOGY .....	Chapter 14
PATHOGENESIS .....	Chapter 15
<i>Also on Midterm</i>	
CONTROL OF GROWTH .....	Chapter 7
ANTIMICROBIAL DRUGS .....	Chapter 20
BASIC IMMUNOLOGY .....	Chapter 16
<i>Quiz 4</i>	
SPECIFIC IMMUNITY .....	Ch 16 p463- 468, Ch 17
APPLIED IMMUNOLOGY .....	Chapter 18
IMMUNE DISORDERS .....	Chapter 19
<i>Quiz 5</i>	
BACTERIAL DISEASES .....	Chapters 21 - 26
FUNGAL DISEASES .....	Chapters 21 - 26
<i>Quiz 6</i>	
VIRAL DISEASES .....	Chapters 19, 21 - 26
<i>Also on Final</i>	
PARASITIC DISEASES .....	Chapters 21 - 26
MICROBES IN NATURE .....	Chapter 27
MICROBES & MAN .....	Chapter 28