

Course Schedule for Microbiology
Gary Alderson

MW Fall 2010
Lect 11-11:50; Lab 12:30-3:50

DATE	TOPIC	READING**
Aug. 23	Introduction & History of Microbiology Lab: Lab Safety & Contamination; Handwashing Experiment	Ch. 1 & 2 & pp. B1-2 Ex. 1 & 2, App. A
25	Prokaryotic Cell Structure Lab: Microscope I & Measuring Microbes	Ch. 4 & 5 & App. F Ex. 3 & 4, App. C
30	Prokaryotic Cell Structure & Viruses Lab: Transfer Technique (Lect. DNA & PCR)	Ch. 6 Ex. 6
1	Protein Synthesis & Operon Model Lab: Microscope II	Ch. 9 Ex. 5 & Ch. 3
Sept. 6	HOLIDAY Lab: HOLIDAY	
8	EXAM 1 (Ch. 1-5) Lab: Simple Stain & Bacterial Morphology	Ex. 9
13	Bacterial Genetics Lab: Streak & Pour Plates (Lect. Bacterial Genetics)	Ch. 10 Ex. 7
15	Factors Affecting Growth Lab: Bacterial Conjugation (& DNA Fingerprinting)	Ch. 7 Ex. 15 & 16
20	Control of Microbes & Antimicrobial Drugs Lab: Genetic Engineering	Ch. 11, pp. C1-2 Handout
22	EXAM 2 (Ch. 6-10) Lab: Gram Stain	Ex. 10
26	Antimicrobial Drugs Lab: Control of Microbes (Lect. Growth)	Ch. 12 Ex. 19 & 22
29	Host/Microbe Interactions Lab: Counting Bacteria	Ch. 13 Ex. 8 & CD-ROM
Oct. 4	Innate & Acquired Immunity Lab: Koch's Postulates	Ch. 14 & 15 Ex. 35
6	EXAM 3 (Ch. 11-13) Lab: Capsule Stain & Lysozyme	Ex. 11 & 23
11	Immune Cell Interactions Lab: Immunology (Blood)	Ex. 25 & 26
13	Immunological Applications Lab: Immunology (Serological Tests) (Drop Deadline)	Ch. 16 & 17 Ex. 24 & CD-ROM
18	Food Poisoning & Staphylococci Lab: Epidemiology (Finish Koch's)	Ch. 18 Ex. 34
20	EXAM 4 (Ch. 14-17) Lab: Spore Stain	Ex. 12

****Key to Reading Assignments:** Ch = Chapters & pp. = pages of textbook by Talaro.
App = Appendices & Ex = Exercises from lab manual by Alderson

Fundamentals of Microbiology
Gary Alderson

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DATE	TOPIC	READING
	25 Streptococci & <i>Neisseria</i> Lab: Cocci	Ex. 27
	27 <i>Clostridium</i> & <i>Mycobacterium</i> Lab: Cocci Results & Acid Fast Stain (NLN Receipt Due)	Ch. 19 Ex. 13
Nov.	1 Gram-Neg. Bacilli Lab: Enteric Bacilli	Ch. 20 Ex. 30
	3 EXAM 5 (Ch. 18-20) Lab: Enteric Bacilli & Unknown Table	(Read Ex. 36)
	8 Spirochetes & Chlamydia Lab: Unknown Keys; Streak practice; Research Write-up Due	Ch. 21
	10 Malaria Lab: Parasitology	Ch. 23 Ex. 31
	15 Helminth Parasites & Fungi Lab: Research Project & Unknowns Begin	Ch. 22 Ex. 36 & 37
	17 Intro. to Viruses & Herpes Viruses Lab: Unknowns	Ch. 6 & 24
	22 EXAM 6 (Ch. 20-23) Lab: Unknowns	
	24 Hepatitis Viruses Lab: Unknowns	
	29 Hepatitis Viruses Lab: Unknowns; Research Project Write-up Due	Ch. 25
Dec.	1 Influenza Lab: (Lect. AIDS) Unknowns Due	
	6 Other Viruses Lab: Computer Unknown	Ex. 32
	8 Review Lab: Review	
	13 Mon. 10:00 AM FINAL EXAM	
	15 Wed. 12:00 PM NLN Exam (Fee \$17 plus tax due Oct. 27) <u>or</u> Lab Practicum	