

BIOL SCI 221 – INTRODUCTION TO MICROBIOLOGY
LABORATORY SCHEDULE – Spring 2012
Monday/Wednesday

DATE	DESCRIPTION	EXERCISE
Feb. 6	Safety Introduction to Phase-Contrast Microscopes, Protozoa	pp. 1-6, Ex. 3-1,3-3; 12-3, pp. 95-99*
Feb. 8	Protozoa, Helminths, Ocular Micrometer (Eaten Alive)	Ex.12-3,12-4; 3- 2,3,4,12; Ex. 2-1*
Feb. 13	Fungi, Aseptic technique (Eaten Alive)	Ex. 12-1, 3-3, 1-3
Feb. 15	Culture Media Preparation, Pure Culture Technique Start Building Stock Cultures	Ex. 1-2,3,4; 2-12*
Feb. 20	HOLIDAY	
Feb. 22	Bacterial Population Counts	Ex. 6-1, 6-3*,1-5 App. C &E, (Handout)
Feb. 27	Bacteriophage Clearing, Titer, Sterile Technique/Transfer Assessment	Ex. 6-5
Feb. 29	Temperature and Growth pH and Microbial Growth Osmotic Pressure and Microbial Growth	Ex. 2-9 Ex. 2-10 Ex. 2-11
March 5	Lethal Effect of Ultraviolet Light Antiseptics: Evaluation of Alcohol Use Dilution: Disinfectant Effectiveness Antimicrobial Sensitivity Testing	Ex. 2-13 (Handout) Ex. 2-14 Ex. 7-3
March 7	Bacteria, Smear Prep, Simple and Negative Staining	Ex. 3-5, 3-6
March 12	Gram Staining	Ex. 3-7
March 14	Spore, Acid Fast and Capsule Staining	Ex. 3-10, 3-8, 3-9*,
March 19	Stock Culture and Culture Characteristics Review, Oxygen requirements, and Selective Media	Ex. 2-1,2,3,4; 2-7,8; 4- 4,5,6
March 21	Physiological Characteristics: Fermentation and Utilization tests	Section 5: 5-3,4,5,6,8
March 26	Physiological Characteristics: Hydrolytic and Differential tests	Section 5: 5-12,13,14, 15,21,25; Indole
March 28	Evaluations	Section 5
April 2	SPRING BREAK	
April 4	SPRING BREAK	
April 9	Stain Review, Gram Stain Assessment	Ex. 5-31
April 11	Unknown #1	
April 16	Unknown #1	
April 18	Unknown #1	
April 23	Unknown #1	
April 25	Unknown #1 Due / Start Unknown #2	
April 30	Unknown #2	
May 2	Unknown #2	
May 7	Unknown #2	
May 9	Unknown #2	
May 14	Unknown #2 Due Miniaturized Multitest Systems	Ex. 5-30, + oxiferm test
May 16	Bacterial Examination of Water, Milk, and Food	Ex. 8-12,13; (Handouts)
May 21	Evaluations, Immunology, & Laboratory Check-Out	
May 23	LABORATORY FINAL EXAM	
May 28	Holiday	
May 30	LECTURE FINAL EXAM	

* These Exercises are to READ ONLY