

LABORATORY SYLLABUS
Prof. Lester's Version
BI 203
Fall 2009

<u>Date</u>	<u>Topic</u>	<u>Exercise #</u>
August, September		
31, 1	Syllabus & Intro; Environmental plate; Lab Basics; and Microscope; Survey: algae, protozoa, yeast, etc	3-1, 2-1 Handout
2, 3	Sterile technique; preparation of smears; simple stains	1-3, 3-4
7, 8	Monday College Closed; Tuesday lab continue labs; micropipettor training	
9, 10	Go over environmental plate; Begin Gram stain	3-6
14, 15	Gram stain continued	3-6
16, 17	Acid-fast, spore stains	3-7, 3-9
21, 22	Negative stains; Motility	Quiz 1 3-5, 3-8, 3-10, 5-22
23, 24	Respiration (nitrate, catalase), Parasitic protozoa	5-4, 5-6, Handout
28, 29	Growth Patterns; Live Protozoa; micropipettor training; Practice staining.	2-3, 2-4, Handout
30, 1	Morphological unknown ***Due Same Day***	Handout-TBA
October		
5, 6	Media: Selective, differential; Bacterial Transformation	4-1, 4-2, 4-4, 4-6; 8-3
7, 8	Temperature, oxygen requirements	2-6, 2-7, 2-8
12, 13	Complete all labs above; Study for practical	Quiz 2 Drawings Due
14, 15	PRACTICAL #1	
19, 20	Streak plates (turn in for grade) / Biochemicals I: starch, lipid, protein	1-4, 5-11, 14, 16
21, 22	Biochemicals II: indole, MR/VP, citrate, CHO, H ₂ S, urease	5-2, 3, 7, 12, 17
26, 27	Quantitative plate; complete biochemicals; [redacted]	6-1
28, 29	Fungi; [redacted]	Handout
November		
2, 3	Start unknown #2 (staining/streaking)	Handout (9-1,2,3, general idea)
4, 5	Continue unknown.	Quiz 3
9, 10	Chemotherapeutics: disinfectants/antiseptics; Antibiotics	2-12, 7-2
11, 12	Genetics: Gradient Plate; Viruses: Plaque Assay	Handout; 6-3
16, 17	Water-Membrane Filter [redacted] Unknown #3 pt.1	7-5
18, 19	continue water; [redacted] Unknown #3 pt.2	
23, 24	Finish water; Begin Throat/Skin microbe [redacted] Unknown #3 pt.3	5-20, 5-21
25, 26	Thanksgiving: No classes Wednesday, closed Thursday	
December		
30, 1	continue Throat/Skin: coagulase, novobiocin	Quiz 4
2, 3	Finish Throat, skin microbes [redacted] Unknown #3 pt.4	***BIOCHEMICAL UNKNOWNNS DUE***
7, 8	Complete all exercises. CLEAN OUT DRAWERS. Study for practical.	
9, 10	PRACTICAL #2 (Not comprehensive)	

***** **Mon - Fri: December 14-18*** Final Exams** *****

[redacted] = blocks of time left over for unknowns and new exercises