

MCB 3020L LABORATORY SYLLABUS SUMMER 2009

DATE	TOPIC	EXERCISE #
5-12	Microorganisms around us; Aseptic technique (no quiz)	1,2
5-19	Cultural characteristics; Enumeration of bacterial populations; Staining procedures	3,4,5
5-26	Use of the microscope; Conditions affecting growth; Selective & differential media	6,7,8
6-02	Bacterial growth curve; Enzymatic activities of bacteria	9,10
6-09	Inoculation of Unknown; Transformation; Restriction Enzymes; Gel electrophoresis	11,12,13,14
6-16	MIDTERM WRITTEN EXAM; Food analysis; Microbial roles in food production [growth curve report due]	1-14,15,16
6-22	BREAK!!	
6-29	Water analysis; IMViC tests; Plaque Assay technique	17,18,19
7-07	Pathogenic protozoa; Fungi; Bacterial roles in the nitrogen cycle [unknown report due]	20,21,22
7-14	Chemical control of microbial growth; Physical control of microbial growth	23,24
7-21	Normal flora; Pathogenic bacteria; Use of Enterotube; Use of Bactercult tube	25,26,27,28
7-28	observe results; evaluations; answer questions about final (no quiz)	--
8-04	FINAL COMPREHENSIVE WRITTEN EXAM	1-28

Lab manual: *Basics for Microbiology Laboratory, Second Edition* by Munro

Lab supplies: Sharpie marker and optional lock for locker

Grades: made up of the following:

Quizzes	20%
Reports	20%
Midterm exam	30%
Final exam	30%

Grade Scale:	A = 90-100	C = 70-76
	A- = 89	C- = 69
	B+ = 87-88	D+ = 67-68
	B = 80-86	D = 60-66
	B- = 79	D- = 59
	C+ = 77-78	E = 0-58

A grade of "I" must be made up within the first 2 weeks of the following semester.

There is a quiz every lab period on the material from the previous lab and that day's work. Lowest quiz grade or unexcused absence will be dropped.

Attendance: mandatory, although foreseen absences may be worked out in advance. No make-ups. If ill, you must email your instructor within 24 hours of the missed lab.