

**MCB 251 Fall 2013
Laboratory Syllabus**

Date	Laboratory Topic	Assignments Made	Assignments Due
Aug 26-30 (Week 1)	Introduction: Course Policies and Expectations		
Sept. 2-6	Labor Day No Lab Sections Meet		
Sept. 9-13 (Week 2)	Exercise 1: Introduction to Microbiology/Introduction to Molecular Biology	-LC Post Lab #1	
Sept. 16-20 (Week 3)	Exercise 2: UV Light and DNA Damage Finish Exercise 1 (discuss lab notebook expectations)	-Ex. #1 Worksheet -Ex. #2 LNA	-LC Post Lab #1
Sept. 23-27 (Week 4)	Begin pBR322 Cloning Exercise: Plasmid Prep and Restriction Digestion (pgs. 79-102)	-LC Post Lab #2	-Ex. #1 Worksheet -Ex. #2 LNA
Sept. 30-Oct. 4 (Week 5)	pBR322 Exercise: Cloning (pgs. 103-110)	-LC Post Lab #3	-LC Post Lab #2
Oct. 7-11 (Week 6)	Exercise 3: Transformation with gfp pBR322 Exercise: Transformation with <i>cat</i> clone (pgs. 111-114)	-LC Post Lab #4	-LC Post Lab #3
Oct. 14-18 (Week 7) Practical Exam I	Lab Practical #1 (200 points)		-LC Post Lab #4
Oct. 21-25 (Week 8)	Exercise 4: DNA Fingerprinting pBR322 Exercise: Selection for Antibiotic Resistance (pgs 115-117)	-Ex. #3 LNA -Ex. #4 LNA	
Oct. 28-Nov. 1 (Week 9)	Exercise 5: VNTR Continue pBR322 Exercise (pgs. 118-119)	-Ex. 5 LNA -LC Post Lab #5	-Ex. #3 LNA -Ex. #4 LNA
Nov. 4-8 (Week 10)	pBR322 Exercise: Determining Orientation by Restriction Analysis (pgs. 120-124)		-LC Post Lab #5
Nov. 11-15 (Week 11)	pBR322 Exercise: PCR/Electrophoresis of isolated clone (pgs. 124-135)		-Ex. #5 LNA
Nov. 18-22 (Week 12)	pBR322 Exercise: Electrophoresis of PCR products (pgs. 136-141)	-LC Post Lab #6 -pBR322 LNA	
Nov. 25-29	No Lab Fall Break		
Dec. 2-6 (Week 13)	Exercise 6: Genetic Regulation Hand in pBR322 notebook assignments	-Ex. #6 LNA -LC Post Lab #7	-LC Post Lab #6 -pBR322 LNA
Dec. 9-11 (Week 14)	Hand in Exercise 6 notebook assignments.		-LC Post Lab #7 -Ex. 6 LNA
Dec. 13-20	FINAL EXAM (TBA)		

