

# MICROBIOLOGY LABORATORY

## SPRING 2012

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<u>Date</u>	<u>LABORATORY</u> <u>Topic</u>	<u>Lab Number</u>
Jan 12	Lab Protocol & Safety	Pages ix - xi
Jan 17	Microscopy, Survey of microorganisms	1,5
Jan 19	Ubiquity of microorganisms, Aseptic technique	6, 8
Jan 24	Smear prep, Simple and Negative staining	10, 11, 12
Jan 26	Gram stain	14
Jan 31	Spore and Acid fast staining, Motility	15, 16, 17
Feb 2	Culture prep, Anaerobes, Pure culture technique	18(demo), 9, 19
Feb 7	Enumeration, Effect of temp. and pH on growth	20, 26, 28
Feb 9	DNA Extraction, Complete previous lab	26, 28,
Feb 14	Fermentation tests, Hydrolytic tests	38, 39
Feb 16	Decarboxylase Rx, Biochemical tests	40,
Feb 21	UV effects, Complete previous labs	30
Feb 23	Oligodynamic effect, Alcohol and antiseptic sensitivity	31, 32, 34
Feb 28#	WBC counts	58
Mar 1	<b>LAB TEST I</b>	
Mar 4	Unknowns	36
Mar 6	Unknowns	36
SPRING BREAK ***** MARCH 10-18		
Mar 20	Unknowns	36
Mar 22	Unknowns results	36
Mar 27	DNA ext. & PCR	
Mar 29	Gel & Gene Clean	
Apr 1	Sequencing	
GOOD FRIDAY HOLIDAY ***** APRIL 5-8		
Apr 10	Sequence Analysis, Water quality test	47
Apr 12	Water quality, Staph ID	47, 52

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**Note:**

1. **BIOL 425** is a stand alone lab meaning that it can be taken separate from the lecture. However to take the lab you must either be enrolled in the lecture, **BIO 425**, or have taken the lecture portion of the course previously. **BIO 246** lecture **will not** satisfy this requirement.
2. **Test dates** will not be changed except under extraordinary circumstances (e.g. hurricanes, snowstorms, etc).
3. Copies of the **old tests** maybe available for viewing check with your TA.
4. **You are NOT allowed to drop or miss a TEST.** If uncontrollable circumstances prevent you from taking a test, you **MUST** notify the teaching assistant (e.g. telephone and leave a message or email) with an acceptable excuse at or before the time of the test. The instructor reserves the right to define what is an acceptable excuse. General examples: **Simply not being prepared is NOT an acceptable excuse**, while sickness, family emergencies and transportation problems are generally sufficient excuses.
5. Please be sure to **turn off** your cell phones before laboratory starts and **during exams.** **Restroom breaks** are not allowed during exams.
6. Attendance in **laboratory is mandatory** and any absences could result in a lower lab grade. **Tardiness** is disruptive to the class and could result in lower evaluation scores.
7. A **lab coat** is required for every lab. Safety goggles or glasses will be worn for most labs. A set of colored pencils is needed for laboratory drawings. Sandals and open-toed shoes are not appropriate footwear in lab.

**TEXT:**

**Laboratory: Custom Lab Manual (ISBN-10: 0-39-023963-1) taken from H. J. Benson. Microbiological Applications** You must buy a lab manual. Manuals are available in local bookstores. Do not order this manual online as the manual is customized for this course (Required)