

# MCB 2010L

# MICROBIOLOGY LAB



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## GENERAL INFORMATION:

### ATTENDANCE

It is required that you will be present and on time for all scheduled labs. Make-up of missed labs will be difficult – check with me in advance if you have something you need to do that conflicts with our lab time so we can find an alternative time for you to come to lab. Being absent from or late to a lab will lead to a deduction from the points that lab is worth. Lab reports for missed labs may be turned in with the review questions answered for up to 2 of the normal 4 points they are worth.

**November 3<sup>rd</sup>** is the last day to withdraw or change from credit to audit. *Before making any change, please be sure to speak to me and determine the effect of a W or AU(X) grade on your financial aid, immigration status, or other situations.* New college and federal rules require faculty to withdraw students for non-attendance at the beginning of the semester or later with a “W” or “WF” grade.

### QUIZZES & EXAMS

There will be 4 scheduled quarterly **exams** including a mid-term and a final. The format of each exam will consist of mostly multiple-choice questions and fill-in-the-blank type questions. They may also include short essay, matching type questions, or diagrams. The mid-term and final exams will consist of both a written and a practical exam. Short **pop quizzes** (5 total) will be given at various times throughout the semester. They will cover the work to be done that day and are given at the beginning of the lab (if you are more than 10 minutes late you will miss the quiz!).

*While taking tests, be courteous to your classmates: turn off beepers and cell phones. Failure to do so will lead to points being deducted from your score.* Under extreme extenuating circumstances I may allow an exam to be taken early or at a different time. This will be by PRIOR discussion and arrangement only. *Failure to wear a lab coat or any other breach of laboratory rules or the academic honesty policy (as per the Student Code of Conduct) will lead to a grade penalty and possible referral to the appropriate campus or program administrator.*

### POINT DISTRIBUTION

Exams 1 & 3	20%	(100 points)
Pop Quizzes	14%	(70 points)
Midterm & Final Written Exams	20%	(100 points)
Midterm & Final Practicals	20%	(100 points)
Lab Reports	20%	(100 points)
Unknown Identification	<u>6%</u>	(30 points)
	100%	(500 points)

### GRADE SCALE

90%	A
80%	B
70%	C
60%	D
Below 60%	F

### OFFICE HOURS

My office number is 7-120. Office hours are posted. Other hours are available by appointment.

### COURSE TEXT

The lab manual for this course is *MICROBIOLOGY LABORATORY MANUAL*. 2<sup>nd</sup> Ed. Finazzo, Obenauf & Weber. 2009. Cache House Publishing or 1<sup>st</sup> Ed 2008.

## OTHER THINGS YOU NEED

- A fine point “Sharpie” or other type **permanent marker** for writing on glass and plastic
- Colored pencils for drawing the various media and microbes we will look at.
- A box of blank **microscope slides** (available in the bookstore or elsewhere). We will use these for various staining procedures throughout the semester.
- A **lab coat** and eye protection (goggles) are required by state and federal regulations.
- Make sure you wear **closed-toed shoes** (no sandals) to protect your feet.

## COURSE OBJECTIVE

Upon completion of this course, the student (you) will have an understanding of the fundamental techniques in the isolation, cultivation, and identification of microorganisms.

## PRE-AND COREQUISITES

Fine print time: prerequisites for this course are 3 hours of chemistry and 4 hours of biology with lab. The corequisite is Microbiology lecture (MCB 2010).

## COURSE HELP ON COMPUTERS / SCREENS IN THE LAB

There are extra materials such as videos of techniques as well as pictures of the microbes we will look at and procedures we will do available in the lab. We will also usually have presentations on lab methods and results running on the front screen and LCD panels in the lab itself. They will loop continually through our lab period – you can refer to them at the beginning of class and while you are working.

## COURSE HELP ON THE INTERNET

Most of our lab method powerpoints are available for viewing or download in video or enhanced podcast form at <http://webhome.broward.edu/~sobenauf/mcb2013/podcasts/podcasts%20lab.html> – this is a good way to prepare before class. These podcasts show how to do the labs and also in many cases how to read the results as well.

There are many images from our class as well on my web site - take a look at <http://webhome.broward.edu/~sobenauf/mcb2013/mcb2013imagebank.htm>. If you roll over each image with your mouse it will tell you something about it.

## THINGS TO REMEMBER

**PREPARATION** - it is **ESSENTIAL** that you read each exercise in the lab manual **BEFORE** coming to class.

**SAFETY** - the procedures we will be performing in microbiology laboratory present a variety of risks. Please use common sense and caution when handling live microorganisms and Bunsen burners. Please also familiarize yourself with the location and usage of the many safety features in and around the lab.

**CLEAN-UP** - Make sure your area is clean before you leave the lab. The last 5 - 10 minutes of each lab are reserved for clean-up and disposal of used materials. Keep your microscope clean (remove oil from lenses and stage) and put it away properly. Clean oil from any slides you have looked at. Remember to dispose of biohazardous material properly in either a biohazardous waste container or sharps container.