



Biology 240 General Microbiology Section 39410

Lecture	TTh 11:10-12:25 17-205
Lab	TTh 9:45 – 11:00 16-204

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Welcome to Biol 240! The information in this greensheet will help you to understand what is expected of you in this class and help you to succeed. You should retain it for reference throughout the course.

“Would you tell me, please which way I ought to go from here?”

“That depends a good deal on where you want to get to”

Lewis Carroll, Alice in Wonderland

Learning Outcomes

This course will challenge you. In addition to thinking about the material in the course you will be encouraged to develop new skills and gain a better understanding of *how you learn*, and, hopefully, where you want to get to.

After completing our course in General Microbiology you will be approximately five months older, but you will be wiser in the following ways:

1. You will develop or improve skills of conducting research, retrieving and citing primary literature and writing Lab reports.
2. You will understand how microorganisms function, how microorganisms have influenced human history, and how they will influence your life.
3. You will learn aseptic transfer, isolation, culture, and identification techniques for studying microorganisms in a laboratory.
4. You will study the human immune response, and understand the balance of destruction and tolerance between hosts and pathogens.
5. You will become very microbe-aware and hyper-hygienic as a result



Structure of the Course.



We will follow the outline of the syllabus, but beware of changes. Lectures will be approximately 75 minutes, but this may vary depending upon content.

Assessment

Lecture

Practice Exam	1 x 35	35
Midterms	3 x 100	300
Final	1 x 150	150

Online

Online Quizzes	15 x 10	150
Online Assignments	10 x 10	100
Extra Credit Picnic		(25)

Labs

Lab Grading Periods	5 x ~40	200
Formal Lab Writeup	1 x 30	30
Unknown Project	35	35
Eukaryote Diversity Project	3 x 20	60
Take Home Lab Quizzes	2 x 10	<u>20</u>
Total Points (approximately)		1080

Grades:

A	90% + :
B	80 –89% :
C	70 –79% :
D	60-69% :
F	< 60%

Online Quizzes

Each week students will complete a 10 point multiple choice quiz covering two Chapters from the textbook. Quizzes are timed, you have 20 minutes to complete the quiz and quizzes are only available between Friday 8 am to Thursday 11:55pm. You will need to log in to Web Access and click on Biol 240 39410 to access the quizzes.

Online Assignments

Each week students will complete and online activity intended to (1) develop science skills in researching and evaluating information, and (2) provide feedback which will be useful preparing for the Midterms. For example two 5 point study questions covering one or two Chapters from the textbook. You will need to log in to Web Access and click on Biol 240 39410 to access the questions.

Citing Sources

Answers to online text assignments must demonstrably be your own work, plagiarized work copied from another student or cut and pasted from websites will not be graded, and is in breach of the colleges academic integrity policy. Submissions that do not cite sources are incomplete.

Exams

There will be three in-class midterms and a comprehensive final exam. The exams will consist of both multiple choice questions and written answers. The exams will be curved to the highest score in the class.

For each exam you must bring a 50 question Scantron (882-E) and a #2 pencil. The Final Exam will consist of 2 parts. The cumulative portion (50 points Chapters 1 → 17) will be in the form of a take home exam. It will be available before the final week of classes, and must be hand-written and handed in on the day of the in-class Final Exam (100 points will cover all lectures after Midterm #3).

Labs

Lab Clean Up and Attendance Policy

You must correctly dispose of chemicals, sharps, and biohazards. You must maintain a clean work station, return any items used in lab to the correct location, and please **always clean labels off glassware (testtubes) with acetone before disposing of them.**

Always clean microscope objective lenses before returning to the cabinet.

Attendance at Lab is recorded. Remember that, this is an oversubscribed class if your attendance at lab is poor, you have taken a place from another student who also needed this class. To protect your clothes from staining, or burning, you should wear lab coat, and closed shoed shoes while in lab.

Lab Notebook

Take notes during lab in a notebook. These notes will include tips on techniques you are learning, additional information and instructions given during lab. These notes will be used to write up the Datasheets for each lab at the back of your lab manual. Grading will reflect your understanding of the concepts, rather than your technical expertise.

Lab Grading Periods

There are five due dates for labs. These dates are outlined in the Lab syllabus. Hand in all completed labs on the due dates. A list of questions to be answered per grading period is also provided on the course webpage. Graded Labs are worth 10 points, for each Grading period 3 labs will be assessed.

Summary of Results Table

For each Lab Grading Period students will complete a results table for each experiment. A blank template is provided for each Lab Grading Period document to download on the class website. The purpose of this table is to serve as a summary to help to identify the bacteria in the unknown project. The table is part of the assessment and it is worth 10 points.



Late Work Policy

You have adequate time to research and write your assignments, and complete your labs. If you cannot meet the deadline you automatically deduct 25% of your grade. Assignments later than one week will not be accepted and will not be graded. Make-up exams are generally not offered. If you notify me in advance that you cannot make the exam date, or if you have fulminating pseudomembranous colitis and have documentary evidence to the same effect, a make up exam may be offered, but not for full credit.

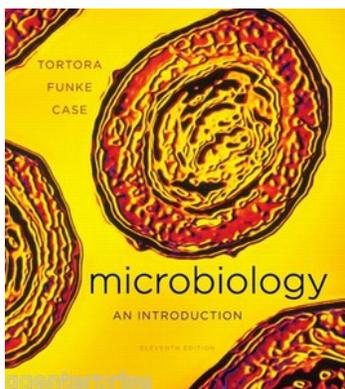
Hours by Arrangement

Biol 240 has 16 required Hours by Arrangement **that must be completed by every student intending to pass the class for transfer.** These hours must be fulfilled via weekly Web Access Quizzes and Study Questions. These activities are graded and must assignments must include references. Additionally, there are times during the week when the Lab is available for students to work on experiments or projects, or catch up if a regular lab has been missed. Open Lab Hours will be announced once the semester has begun. Please contact the instructor for the open hours session that you wish to attend in advance. It is the responsibility of the student to ensure that their completion of Hours By Arrangement.

Academic Integrity

Cheating includes copying and plagiarism. Copying another student's work during exams, or reading from notes will result in confiscation of the exam, a zero for that particular exam, and you run the considerable risk of being expelled from the class. Students caught cheating may have this written on their academic record.

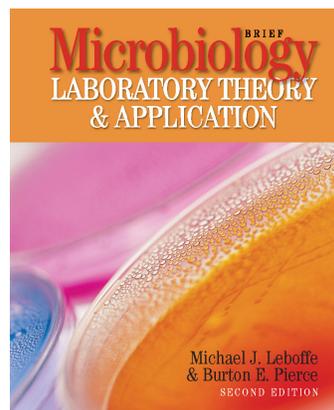
Plagiarism includes copying material directly out of a written source and claiming this work as your own. It also includes **copying and pasting text directly from websites.** Do not do this- this is also cheating. Use "quotation marks", and cite sources where appropriate.



Course Texts

Textbook: Tortora, Funke, and Case "Microbiology an Introduction" 11th (or 10th) edition, (2012), Benjamin Cummings

Lab Manual: Leboffe, M.J., and Pierce, B.E. "Microbiology Laboratory Theory and Application Brief Edition (2012), Morton Publishing



Course Website

<http://www.smccd.net/accounts/thomsonb/Microbiology.html>

I use the course website to post materials, such as study guides, handouts, instructions for labs and projects. You will need to check the website weekly in order to download and print the study guides for the chapters in Tortora, Funke and Case. In addition I have provided information and resources that I hope will help those who feel that they could benefit from improving their study skills and reading techniques.

WebAccess

WebAccess is used for assessment. As part of the course assessment, and to complete the required Hours by Arrangement you will complete online quizzes and Study Question

every week. Additional resources, such as animations, have been uploaded to help you answer two study questions per week.

CD-Rom and Publisher Website

The textbook comes with an excellent learning support CD-Rom and website. www.microbiologyplace.com

These include mini-lectures aimed as well as a glossary, self quizzes and links to websites connected to the subject of each chapter. Make the most of it!

Lecture Outlines and Study Questions

A set of study questions accompanies each chapter in the textbook. The questions in the study guide reflect my interpretation of what you should learn from each chapter for our class. These questions will range from general to challenging questions. They are asked in a way that makes you think about the concepts, rather than remembering them without understanding them. They are combined with lecture outlines for each lecture. You should download the outlines and bring them to each lecture.

Important dates and deadlines

LAST DAY TO DROP - April 24

It is the Students responsibility to drop classes. Failure to do so will result in an F on your transcript

Date	Due
1/28	Practice Exam
2/13	Exam #1
3/18	Exam #2
4/22	Exam #3
5/06	Microbial Picnic
5/22	Final

Services

Cañada College has a wide range of student support services. You can find details and contact information online, in the Fall Course Catalogue, or use the links on the course website. The Library also provides information on how to research articles and how to cite sources.

It is in your interest to make full use of all services available to you while you are a college student. All these services are provided for your benefit.

306-3226 Admissions

306-3452 Counseling, Career and Transfer Services

306-3259 Disabled Student Program

306-3300 EOPS/CARE

306-3307 Financial Aid

306-3494 International Student Program

306-3348 Learning Center

306-3316 Tutorial Center

306-3316 Writing Center 306-3120 MESA Center