



## **BIO105 –Microbiology w/Lab**

Kamal M Gandhi, PhD

Course Syllabus

Online

### **Course description**

Classification, morphology, reproduction, transmission, and control of micro-organisms causing disease in man. Laboratory practice in culturing methods, microscopic observation, and physical and chemical control.

### **Course text**

: Tortora, Funke, and Case. **Microbiology: An Introduction**. Pearson Publishing 12<sup>th</sup> ed. 2016. ISBN: 9780321929150

\* you can save some money by finding the 11<sup>th</sup> ed instead, or can rent your text

\*\* you can also buy just the Mastering Microbiology code from the book store, which includes an etext

### **Lab materials**

Hands On Lab Microbiology kit sku LP-3033MB-01

### **About Me**

Kamal Gandhi

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### **Office Hours**

I will hold a virtual office hour every Wednesday from 5-6pm PST. You can join using the link: <https://oregontechonline.zoom.us/j/974130637> (also posted in Blackboard). Additionally, you can schedule additional office hours by emailing me with some available times.

### **Weekly Schedule**

Each week will cover one topic, with a lecture tied to some readings from the text and some videos I have created. Assignments for the week will i

Finally, there will be a **proctored midterm** in week 6, covering weeks 1-5. A **proctored final** in week 11 (covers weeks 6- 10).

## Course Learning Objectives

The student shall be able to discuss the structure, morphology, and reproduction of microorganisms.

The student shall be able to describe how to culture microorganisms in various media.

The student shall be able to discuss the role microorganisms have in human infectious diseases.

The student shall be able to explain the physical and chemical methods to control the growth of microorganisms.

## Grade Breakdown and Criteria

The tentative grade breakdown is as follows:

Introduction	15 pts
Weekly discussions	15 pts x 9
Weekly questions	10 pts x 10
Weekly quizzes	15 pts x 10
Weekly labs	20 pts x 10
Midterm Exam	100 pts
<u>Final Exam</u>	<u>100 pts</u>
total	800 pts

This class uses the standard OIT grading scale:

90 – 100%	A
80 – 89%	B
70 – 79%	C
60 – 69%	D
0 – 59%	F

## Teaching Method & Activities

BIO105 utilizes a coordinated lecture and laboratory format. **The class moves at a fast pace and concepts build on previous concepts.** My teaching philosophy combines repetition and practice to build long-term memory. As such, topics and themes often repeat, and this helps solidify the foundation of knowledge utilized in this course and in the future. Additionally, discussions are incorporated into weekly modules to enhance critical thinking and engagement with the material. **While this**



## OIT Policies

Students are responsible for knowing and understanding Oregon Institute of Technology's requirements relating to registration, academic standards, student activities and student organizations. A partial view of academic regulations is included in the class schedule introduction pages on Oregon Tech's Web site and distributed to new students during their first registration at Oregon Tech. Students are encouraged to meet regularly with their departmental advisors and to contact the Registrar's Office with questions about academic procedures, policies or regulations.

According to the official policies and procedures of Oregon Tech, cheating or plagiarism in connection with an academic program is prohibited and students may be disciplined for the following cause. Plagiarism is defined as copying from a written source verbatim without putting the material in quotes and citing the source. Included in the realm of cheating is the presentation of work copied from other students as your own, such as copying from another's lab book. I take cheating and plagiarism very seriously.

Students with a documented disability who require assistance or academic accommodations should contact the office of Disability Services immediately to discuss eligibility. Disability Services staff are located on both the Klamath Falls and Wilsonville campuses, however arrangements can be made to meet with a student on any campus. Meetings are by appointment only, so please contact the Disability Services office at the campus closest to you: **Klamath Falls (541) 885 1790** and **Portland Metro (503) 821 1305**. Specific information and Disability Services forms can be found at

at [www.oit.edu](http://www.oit.edu)

## **Proctored Exams**

You may either go to a university testing center or take the test online using ProctorU. If you chose the Proctor U option, you are able to get a lower rate for the exams than the standard rate, so please by access codes through the bookstore. Also note, you need to plan a specific time to take the test with Proctor U, so please plan ahead and schedule your appointment early.

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