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Imperial Valley College
Fall 2013

Biology 220 (CRN# 10974)
General Microbiology

Course Description: A comprehensive one semester General Microbiology course that provides students with fundamental concepts of structure and physiology of disease- and non-disease producing microorganisms with particular emphasis on bacteria. Includes basic techniques for culturing, staining and identifying microorganisms. The course meets the requirements for general education, nursing and other higher level biology courses.

Lecture : TTh: 8:35-10:00am
Lab: TTh: 10:10-1:20pm
Room : 2712

Add/Drop/Withdrawal dates: Students are responsible for meeting these deadlines.

Attendance and Tardy policy: Class attendance and tardy policy follows the regulations as in the IVC catalog. It is appreciated if advance notice of absence can be given. Please make every effort to be on time for the lecture and the lab. If you have more than THREE absences/tardy you may be asked to drop the class at the Instructor's discretion.

Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DPS & S) office as soon as possible.

PLEASE NO FOOD OR DRINKS IN THE CLASSROOM AND THE LAB.

PLEASE TURN OFF YOUR CELLPHONES/iPhones IN CLASS AS A COURTESY TO YOUR CLASSMATES AND THE INSTRUCTOR. (If you are on call please notify me). **Students caught using cellphones/iPhones during lecture/lab will asked to leave the classroom for the day. NO EXCUSES!!!**

Grading Scale: A=90-100%
 B= 89-80%
 C= 79-70%
 D= 69-60%
 F= Below 60%

Grading Policy:

Exams (500Points):

There will be FIVE exams during the course, each worth 100 points. There will be NO MAKE-UP EXAMS.

Final Exam (100 Points): The final exam must be taken as scheduled to receive a passing grade. In case of illness or other valid excuse for which there is a written documentation, please notify me as soon as possible so that I can make suitable arrangements.

Quizzes will be given periodically at the beginning of the class. If you are late, you cannot take the quiz.

Points you earn in the exams, quizzes, class/lab assignments graded by the Instructor will contribute towards your overall grade in the class for the semester. **STUDENTS ARE ABSOLUTELY RESPONSIBLE FOR KEEPING TRACK OF THEIR ACADEMIC PROGRESS DURING THE COURSE.**

Classroom door will be locked five minutes after the class starts and if you are late you will not be allowed to attend the lecture/lab for the day. So Please be on time for the lecture and the lab.

Attendance is required. Roll will be taken at the beginning/ end of the class. Students are expected to be in the class until the class is dismissed by the Instructor. **If you have been marked absent, your assignment for that day will not be graded.**

Student Learning Outcomes:

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

- 1. Accurately explain the basic principles of microbiology, which include but are not limited to: structure and functions of prokaryotic and eukaryotic cells, microbial metabolism, bacterial/molecular genetics, pathogenesis, virology and immunology. (ILO1; ILO2)**
- 2. Devise a dichotomous key to aid in the identification of disease-causing bacteria and accurately identify disease-causing bacteria by using the key and experimental techniques. (ILO1; ILO2)**
- 3. Perform experimental techniques in microbiology correctly to test hypothesis, determine characteristics of microbes and perform diagnostics. (ILO2)**
- 4. Apply lecture and laboratory concepts with critical thinking to explain experimental data and scenarios in microbiology not addressed directly in class/laboratory. (ILO1; ILO2)**
- 5. Fully participate in classroom and laboratory activities. (ILO3)**

WK	DAY	DATE	LECTURE	LABORATORY	MAT
1	Tue	8/20	Introduction; Chapter 1	Ex. 2-1; 3-1	
	Thu	8/22	Chapter 1 (Continued)	Ex. 1-2;2-5;3-4	
2	Tue	8/27	Chapter 2	Ex. 3-6;3-8	
	Thu	8/29	Chapter 3	Ex. 3-7;3-9	
3	Tue	9/3	Chapter 4	TBA	
	Thu	9/5		Gram Stain Test	
4	Tue	9/10	Exam 1	Ex. 4-1	
	Thu	9/12	Chapter 5	Ex. 4-4;	
5	Tue	9/17	Chapter 6	Ex. 4-6	MINOR UNKNOWN
	Thu	9/19	Chapter 7	Ex. 5-2;5-3;5-4	
6	Tue	9/24	EXAM 2	Ex. 5-5;5-7	
	Thu	9/26	Chapter 8	Ex 5-8;5-9; 5-10	
7	Tue	10/1	Chapter 9	Minor	
	Thu	10/3	Chapter 10	Minor; 5-11;13;14	
8	Tue	10/8	EXAM 3	Minor	
	Thu	10/10	Chapter 11	Minor	
9	Tue	10/15	Chapter 12	Ex. 5-12	
	Thu	10/17	Chapter 13	Ex. 5-17;5-18	MINOR UNKNOWN
10	Tue	10/22	EXAM 4	Ex. 7-2	MAJOR UNKNOWN
	Thu	10/24	Chapter 14		
11	Tue	10/29	Chapter 15		MAJOR UNKNOWN
	Thu	10/31	Chapter 16		
WK	DAY	DATE	LECTURE	LABORATORY	MAT
12	Tue	11/5	EXAM 5		
	Thu	11/7	Chapter 17		
13	Tue	11/12	Chapter 18	Major Unknown	
	Thu	11/14	Chapter 19		

14	Tue	11/19	Chapter 18	Chapter 19	
	Thu	11/21	Chapter 20	Chapter 21	
15	Tue	11/26	Chapter 22	Chapter 23	MAJOR UNKNOW
	Thu	11/28	HOLIDAY		
16	Tue	12/3	Chapter 24		
	Thu	12/5	Finals		

Required Text: Microbiology, An Introduction; Tortora. Funke and Case (11th Edition) ISBN 13:978-0-321-73360-3

Lab Manual: Microbiology, Laboratory, Theory and Application; Michael Laboeffe and Burton Pierce (Brief Edition)

