

Experimental Microbiology, Bio-331

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Office hours: Tuesday 3:30 –5:30 p.m.

Other time by appointment

Objective of the class: this one semester course is designed to introduce students to the “invisible” life of microorganisms and their tremendous impact on our daily life.

Required textbook: *Brock Biology of Microorganisms*, 10th edition by Madigan, Martinko, and Parker. Published by Prentice Hall, 2002. ISBN 0-13-066271-2.

Required lab manual: *Laboratory Experiments in Microbiology*, sixth edition by Johnson and Case. Published by Benjamin/Cummings Publishing Company, Inc. 1998. ISBN 0-8053-7589-9

Lecture grade: students will be graded **SOLELY** on the three exams for the class. Students must take exams at the prescheduled time. Absence will result in a “0” for the missed exam. Medical emergency with a doctor’s note is the only acceptable excuse for missing any examine. The instructor must be informed by the student about the reason for missing an exam directly or indirectly (through phone call, e-mail, or a third person) within 24 hours. Any missed exam must be taken within 48 hours after exam is given.

Lab grade: given by the lab instructor.

Overall grade for the course: Exam 1 or Exam 2 = 30%
Exam 3 = 40%
Lab = 30%

Grade conversion table

Total scores	93	90	87	83	80	77	73	70	67	63	60	0-59
Overall grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F

Attendance: ON TIME attendance will be recorded for each lecture. **ON TIME** attendance of lectures is essential for success in the class because exams are primarily based on the materials discussed in the lecture. In addition, late arrival disrupts the learning process of your classmates.

Spelling. All names of microorganisms and antibiotics must be spelled correctly. This is essential for medical professionals. One point will be deducted from an exam or lab quiz for every misspelled name.

Academic Integrity: related guideline in the Lehman College Student Handbook will be strictly followed.

Course Syllabus
Bio-331 Microbiology, Spring 2005

- 2/1 Microorganisms: an overview.
Chapters 1 and 2
- 2/8 Cell structure, function, and molecular composition.
Chapters 3 and 4.
- 2/15 Microbial metabolisms and growth
Chapter 5 and 6
- 2/22 Metabolic diversity
Chapter 17
- 3/1 Examine, including 2/22 lecture
- 3/8 Principles of microbial molecular biology
Chapter 7
- 3/15 Regulation of gene expression and bacterial genetics
Chapters 8 and 10
- 3/22 Microbial Genomics and microbial growth control
Chapter 15 and 20
- 4/5 Essentials of virology
Chapter 9
- 4/12 Examine, including 4/5 lecture
- 4/19 Prokaryotic diversity: bacteria and archaea.
Chapter 12 and 13
- 5/3 Methods in microbial ecology and microbial habitats
Chapters 18 and 19
- 5/10 Human-microbe interactions and essentials of immunology
Chapters 21 and 22
- 5/17 Epidemiology and person to person microbial diseases.
Chapters 25 and 26
- 5/24 (to be confirmed)
Third examine, covering mainly the third part of the lecture.