

**MBIO 3010 Bacteriology**  
**TR 12:30P – 1:45P N104 Spring 2012**

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<b>Instructor</b>	My Lo Thao, Ph.D.
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<b>Office hours</b>	W 10:00A-11:30A, R 9:00A-10:30A, or by appointment
<b>E-mail</b>	<a href="mailto:mlthao@biology.csustan.edu">mlthao@biology.csustan.edu</a> <ul style="list-style-type: none"><li>• best method to contact instructor</li><li>• please include your name and the course number in the subject line.</li></ul>
<b>Webpage</b>	<a href="http://moodle.csustan.edu">moodle.csustan.edu</a>

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**Course Description:** A study of microorganisms, particularly bacteria, including an introduction to bacterial structure/function, genetics, metabolism, physiology, and evolution, and their role in the world.

**Course objectives:**

1. For students to gain factual knowledge of the basic principles and theories of microbiology, particularly
  - a. Bacterial structures and their function
  - b. Bacterial genetics and evolution
  - c. Bacterial cellular metabolism and physiology
  - d. Host immunity
2. To understand the role of bacteria in everyday life including medicine (health and welfare and in infectious diseases), environment and industry.

**COURSE REQUIREMENTS**

**Prerequisites:** One year of an introductory college-level biology and chemistry series (ZOOL 1050 and BOTY 1050, or BIOL 1150 and CHEM 1110 or equivalent).

**Required Text:** Microbiology: An Introduction by Tortora, Funke and Case, 10<sup>th</sup> Edition with Mastering.

**ADD/DROP Policies:** **February 22<sup>nd</sup> is the last day to add/drop the course.** The add/drop policies for this class are the same as the university add/drop policies.

**Course Etiquette:**

1. Arrive prepared and on time for class.
2. Turn off and put away all cell phones and pagers. No cell phone will be allowed out at any time. If they are taken out, they will be confiscated.
3. Please do not carry on conversations with your neighbors once class has started. Such behavior is highly disrespectful and very distracting to me and to the other students around you.

**Grading Policies:**

1. **Academic Dishonesty and Misconduct:** There is zero tolerance for cheating. Cheating in any capacity in this class will result in penalties ranging from a minimum of a zero on the assignment or exam to a maximum of expulsion from California State University, Stanislaus as indicated by the official University Policy regarding dishonesty and misconduct. Exams, reports, and/or other assignments are indicators of individual performance. Copying off of another student's exam, plagiarized reports, or other assignments constitutes cheating. If your phone rings during the exam, ten (10) points will be deducted from your exam score. Taking out a cell phone during an exam is considered cheating, your exam will be confiscated, and you will receive zero points for that exam.

2. **Regular attendance is vital to your success in this course.** You are expected to attend class regularly, come to class on time, and complete assigned readings. Attendance requires not only your physical presence, but your attention and participation as well. Students who are physically present, but inattentive (including, but not limited to, sleeping, excessive conversation, texting, e-mailing, web-surfing, being disruptive, arriving late, leaving early, etc.) may be asked to leave. Missing more than 4 classes may result in being dropped from the course. You are responsible for any information or assignments you missed in your absence.
3. **Exams:**
  - a. Exams are written with the course objectives in mind. Because the information in this course cannot be divided into separate, discreet units, exams will, to some extent, be cumulative.
  - b. Questions that may appear on exams include multiple choice, matching, short answer, discussion, problem-solving and case study interpretation. You will need Scantron form # 882-E for the exams. Note that:
    - i. Only answers on the scantron will be graded, so transfer answers carefully
    - ii. Take care to erase well those answers you do not want marked
    - iii. Illegible answers in written portion will not be graded.
    - iv. Correct spelling and grammar are necessary for effective communication. Therefore, spelling and/or grammatical errors will result in loss of points on exams.
  - c. Unless otherwise stated, exams will begin at the beginning of the scheduled class time. If you are tardy, you will not be given extra time to finish the exam.
  - d. You will not be allowed to leave the room until you have finished and turned in your exam.
  - e. After graded exams have been returned, you have one week to review exams or dispute errors; no grades will be changes after that time.
4. **Make-up exams only given under extenuating circumstances and only with documentation**
  - a. Make-up exams will be different and will consist only of short answers and essay questions. Failure to appear at exam time without 24 hours prior notice to instructor with an appropriate excuse, or an appropriately documented emergency, will result in zero points for that exam.
5. **Total points for course = 700**

3 exams (125 pts each)	375 pts
One relevance reports (25 pts each)	25 pts
Mastering Assignments	100 pts
Comprehensive final exam	200 pts

Additional assignments may also be given throughout the semester. The instructor reserves the right to give unannounced quizzes if it becomes apparent that students are not keeping up with the material, there are an unacceptable number of absences and/or if students show up late for class.

**\*No late assignments will be accepted.**

6. **Grading** will be based on a percent scale:  
 93-100 = A, 90-92 = A-, 87-89 = B+, 83-86 = B, 80-82 = B-, 77-79 = C+, 73-76 = C, 70-72 = C-, 67-69 = D+, 60-66 = D, < 60 = F

**NOTE:**

- Take care of your grade. Remember you earn your grade; it is not given to you.
- The instructor reserves the right to reduce your grade due to excessive absences and/or tardiness.
- Grades/scores will not be sent to students via email or be given over the telephone.
- Instructor will not calculate student's scores or grade.

## 7. Course Page

Information for the course (**Lecture notes**, objectives, and/or ppt lectures exam scores, syllabus, related materials, etc.) can be found on the course's Moodle page (moodle.csustan.edu). Lecture materials **are copyrighted** and are only for the personal use of students enrolled in the course. **Do not** give the username/password to anyone else. If you do so **no more** material will be provided.

How to enroll in Moodle:

1. Go to the Moodle site - moodle.csustan.edu.
2. Under Course Categories, locate and click on the course you need to enroll in - Microbiology, then MBIO 3010: Bacteriology
3. Create a Moodle account (this will be different than your CSU Stan login account). . Please remember your login and password. After your account is created and confirmed you will be able to view your Moodle course site
4. Enter the enrollment key (i.e., password) for the course. The enrollment key is: mbio3010.
5. Once enrolled, go to your 'Profile Settings > Edit Profile'. Make sure that the information there is accurate (*e.g.*, your full name has been entered, your email address is correct). At the bottom of the page enter your student identification number.

Registration in Mastering will be covered in class on the first day by the representative from Benjamin Cummings.

**Note:** Students who fail to correctly register for the Moodle and Mastering pages by February 2, 2012 will be dropped from the class.

**\*Note: No laptops, cameras, or cell phones are allowed in class.**

### Tentative Lecture Schedule (open to revision)

Date		Related Reading	Subject
		Chapter	
Jan	26	1	Introduction, The Microbial World and You
	31	1 2	The Microbial World and You (cont'd), Chemical Principles
Feb	2	3	Observing Microorganisms
	7	4	Prokaryotic and Eukaryotic Cells
	9		Prokaryotic and Eukaryotic Cells (cont'd)
	14	5	Microbial Metabolism
	16	6	Microbial Growth <b>Relevance report #1 due!</b>
	21	6	Microbial growth (cont'd)
	23	7	Control of Microbial Growth
	28	<b>EXAM I Ch. 1-6 (125 points)</b>	
Mar	1	8	Microbial Genetics
	6	9	Biotechnology and recombinant DNA
	8	10	Classification of Microorganisms
	13	11	Prokaryotes
	15		Prokaryotes (cont'd)
	20	12	Eukaryotes
	22	13	Viruses, Viroids and Prions
	27	27	Environmental and Applied Microbiology
	29	14	Diseases and Epidemiology
Apr	3	<b>EXAM II Ch.7-13 (125 points)</b>	
	5		Diseases and Epidemiology (cont'd)
	10	<b>Spring Break</b>	
	12	<b>Spring Break</b>	
	17	15	Mechanisms of Pathogenicity
	19	16	Nonspecific Host Defenses
	24	17	Specific Host Defenses
	26	18	Practical Applications of Immunology
May	1	<b>EXAM III Ch. 27, 14-18 (125 points)</b>	
	3	19	Disorders of the Immune System
	8	20	Antimicrobial Drugs
	10		Human diseases
	15		Human diseases
	22	<b>FINAL EXAM (200 points) 11:15A-1:15P</b>	

**Note:** The lecture schedule in this course is tentative and subject to change.