

**Biology 211 – Allied Health Microbiology
General Information – Fall 2009**

Course Learning Objectives:

1. General understanding of microbial physiology, genetics, and metabolism
2. Understanding the role(s) of microorganisms in human disease
3. Understanding human host defenses to infection
4. Role of microorganisms in food production and spoilage
5. Role of microorganisms in the environment

Pre-requisites: Successful completion of one college course in biological principles and one college course in chemistry.

Instructors: Lecture/ 8:00-9:15 AM Lab: Dr. Patricia Edelmann; Holt 308; 898-6099; pedelmann@csuchico.edu

Office Hours: Mon, Wed 2:00-4:00 PM, Tues 10:00-11:00 AM. Also by appt.
Please check Web Vista daily for: Updates, notes, on-line quizzes, grades

9:30-10:45 AM Lab: Dr. Larry Hanne; Holt 328; 898-6298; lhanne@csuchico.edu
Office Hours: MWF 12-1 PM; TR 11-12 AM.

11:00-12:15 PM, 12:30-1:45 PM Labs: Dr. Andrea White, Holt 301 J; 898-4123; akwhite@csuchico.edu
Office Hours: TW 9-10 AM; F 9-12AM

2:00-3:15 PM, 3:30-4:45 PM Labs: Dr. John Mahoney, Holt 114; 898-6410; jmahoney@csuchico.edu
Office Hours: MWF 11-12 AM; TR 12:45-1:45 PM

Books: Cowan, M.K. and K.P. Talaro. 2009. Microbiology: A Systems Approach. 2nd Edition McGraw Hill . Required

Biology 211 Laboratory Manual (available for purchase from the Biology Honors Club, Omicron Theta Epsilon- outside Holt 255. Cash only) Required.

Other: Protective Laboratory Covering, Safety Goggles, Sharpie Permanent Marker, you may bring a lock for your lab drawer.

There is a miscellaneous course fee. This may be paid at the time of registration or at the Cashiering Office (Kendall Hall 212)

<u>Course Grade</u>	<u>Points</u>	<u>Laboratory Grading</u>	<u>Points</u>
Exam I	80		
Exam II	100		
Exam III	100	Unknowns (2)	30
Comprehensive Final Exam	150	Lab Practicum (2)	60
On-line Quizzes (10@ 5pts. ea.)	50	Growth Curve Quiz	15
<u>Laboratory Grade</u>	<u>120</u>	<u>Laboratory Participation</u>	<u>15</u>
Total Possible	600	Laboratory Grade	120

Grading: The following will be used to determine your final grade letter.

A = 552 points (92%)

A- = 534 – 551 points (89 – 91 %)

B+ = 522 – 533 points (87 – 89 %)

B = 486 – 521 points (81 – 87 %)

B- = 474 – 485 points (79 – 81 %)

C+ = 462 – 473 points (77 – 79 %)

C = 426 – 461 points (71 – 77 %)

C- = 414 – 425 points (69 – 71 %)

D+ = 402 – 413 points (67 – 69 %)

D = 360 – 401 points (60 – 67 %)

F = Below 360 points (60 %)

Exams: Exams are given in class and include material from the laboratory and from the lecture. Please merge laboratory and lecture material as you study. The format is predominantly multiple choice. With each Exam, except for the Final, there will be a written section. Scantrons will be provided. With the exception of calculators, you will be asked to turn off all electronic devices and put them away.

On-line Quizzes: Each online quiz is worth 5 points. There are ten questions @ 0.5 point/question. **Eleven** quizzes will be given weekly between Friday 2 PM through Monday 10 AM on Web Vista. The time allotted for the on-line quiz is 30 minutes. Each quiz will cover lab material from the present and next week and lecture material from the present week. **Your lowest quiz score will be dropped.**

Protocol:

1. Attendance in lab is required. We hope that you will enjoy lab and find this time very well spent in learning about microbes. If you are unable to attend a lab, you must notify the instructor and try to attend another section that day. **Tardiness and absences will affect your laboratory grade.** It is imperative that we begin lab on time. **A loss of one point will occur for every time you are not at your lab bench when the instructor begins class. There will be no penalty for the first two absences, however, your laboratory grade will be lowered by 2 points for each absence after that. A total of seven absences will result in an “F” grade for the BIOL 211 course.**
2. Unsafe laboratory technique or improper/unsafe disposal of materials will result in a loss of 10 points from your laboratory grade, or dismissal from the course.
3. Lab participation grade will be based upon technique/skills, care of equipment, proper discard procedures, teamwork, preparation for lab, punctuality, and other traits pertinent to a potential “letter of recommendation”.
4. Lab skills grade will be based upon your proficiency with the microscope and aseptic technique.
5. Late assignments may be turned in up to 1 week late for 50 % of the possible point value.
6. Make-up quizzes and exams are NOT given unless prior arrangements have been made.
7. At the end of every lab whenever possible, the class will discuss correct answers to questions for that lab, then the instructor will check off that you have completed the lab.

Lab Cleanup:

1. Everyone is responsible for properly cleaning up their work area and discarding materials at the end of the lab period.
2. Remove tape and marks from glassware discards.
3. Tubes should have cotton plugs pushed in and be carefully discarded so there are no spills.
4. **Each week one group will be responsible for policing lab discards.** Table #1 is responsible for week #1, Table #2 is responsible for week #2, and so on. The cleanup group will check the discard area for proper discard (marks, tape, tubes tipped over), for messes at workbenches, and proper storage of microscopes. **There will be a 5-point penalty to all members of the cleanup group for improper/incomplete cleanup.**

