

CASPER COLLEGE COURSE SYLLABUS
MOLB 2240 MEDICAL MICROBIOLOGY

Semester/Year: Fall 2015

Lecture Hours: 3

Lab Hours: 3

Credit Hours:4

Lecture Times: 11:00-11:50

M, W, F

Lecture Room: AH107

Lab Times: T, TH

LA: 9:00 – 10:30 am

All labs are in AH107

LB: 10:30 – 12:00pm

Instructor's Name: Dr. John Chase

Instructor's Contact Information: LS 211

Office Phone: 268-2898

Email:

Jchase@caspercollege.edu

Office Hours: See handout schedule and schedule on office door.

Course Description: A study of microorganisms, focusing microbial diversity, microbial physiology, identification, medical significance, basics of immune systems, epidemiology and the laboratory techniques used to study these microorganisms.

Statement of Prerequisites: A passing grade in BIOL1000 or BIOL 1010 **or the permission of the instructor.** An understanding of general biological and chemical concepts is needed.

Goal: The goal of this class is to provide an understanding of the principles of infectious disease, epidemiology, immune response, growth control and identification of microbial pathogens.

Outcomes: The student should know and understand the following concepts essential to the understanding of pathogenic microbiology:

- Demonstrate effective oral and written communication
- 2. Use the scientific method
- 3. Solve problems using critical thinking and creativity
- The epidemiology of various diseases including infections caused by prokaryotes, viruses and eukaryotes
- The host-pathogen interactions.
- The non-specific and specific host immune responses.
- Hypersensitivity and allergic responses
- The growth and control of pathogenic microbes.

- The use of therapeutics and vaccines
- Laboratory techniques dealing with aseptic procedures and microorganism isolation.

These objectives will be assessed by a combination of lecture quizzes and exams as well as applied laboratory manipulations performed for the instructor.

Methodology: Lectures and peer review papers will be used to achieve the stated objectives which cover subject content. Hands-on exercises, which investigate and apply important concepts, will be the focus of the laboratory portion of this class.

Evaluation Criteria: The grading rubric is top-down. Each student starts with 1000 pts and points are deducted rather than gained. Each student is allowed two attendance passes and will be assessed a 15 pt deduction thereafter. Additionally, your grade will include ten laboratory problem sets worth a total of 100 points. Two 50 pt lab quizzes. A 100 point paper and oral defense will complete the lab requirements. The laboratory makes up 30 % of the overall grade.

Lecture Grade:

- 35 in-class quizzes = 350 pts
- Midterm and Final Exam = 300 pts

Lab Grade:

- 10 Problem Sets/ 10 points each = 100 pts
- 2 quizzes/ 50 pts each =100 pts
- Presentation = 100 pts

Attendance is mandatory! In-class quizzes make-up one-third of your overall grade! After 2 missed quizzes, each missed quiz will get an additional 15 pt deduction.

Grading will be assigned on the following basis:

- 90% and above = A
- 80% - 89 % = B
- 70%- 79% = C
- 60% - 69% = D
- Below 60% = Failing

Suggested Text: Burton's Microbiology for Health (Edition: 9th)

Benson's Microbiological Applications: Complete Version(Edition: 12th)

Class Policies: Last date to change to audit status or to withdraw with a W grade is the last day of school with instructor's permission. There will be no penalty for missed lectures. However it is the responsibility of the student to acquire any notes or papers that the student missed and be aware of any assigned material or class discussions.

Student Rights and Responsibilities: Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

Chain of Command: If you have any problems with this class, you should first contact the instructor in order to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take your problem through the appropriate chain of command starting with the department head, then the division chair,

and lastly the vice president for academic affairs.

Academic Dishonesty - Cheating & Plagiarism: Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct.

Official Means of Communication: Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly. This is also, where you will find course evaluation links during course evaluation periods.

Calendar or schedule indicating course content: See handout schedule.

Plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct.

ADA Accommodations Policy: It is the policy of Casper College to provide appropriate accommodations to any student with a documented disability. If you have a need for accommodation in this course, please make an appointment to see me at your earliest convenience.

Student complaints should be addressed through the following chain of command:

1. The instructor of the course.
2. The Department Head (Dr. Scott Johnson).
3. Dean of the School of Science (Dr. Grant Wilson)
4. The Vice President for Academic Affairs (Interim)