

Microbiology for the Health Sciences (Biol 251) Fall 2009

Dr. Tom Lewis

WF 3:00-4:30 HSCT 133

Office hours: Rm. 217 Science Hall

(by appointment) Ph. 657-2024

tlewis@msubillings.edu

Course Description: This course is designed to introduce students to the field of microbiology, and enable an understanding of infectious disease processes and their causative agents. Although the instructor's field of expertise is environmental microbiology, only casual mention of those aspects of microbiology will be made, the course will instead focus on animal (human)-microbe interactions.

Course Guidelines: Prepare for the class in advance by reading assigned material. questions at the end of each chapter is also very helpful- ask them in class if you don't find the answer yourself. Stay current!! It's hard to catch up if you get behind!

Ask questions; it's important that you be willing to interact with the instructor as we cover the course material. This course should be interactive. Students will be expected to collaborate both inside and outside the classroom, therefore **attendance is very important**. Remember, the goal is for you to learn, and for us to help you learn. That's difficult to achieve if you don't attend class.

Assessment: Written assessment will be used to formally determine how well you understand the material we are discussing. This assessment will take the form of written exams.

EXAMS: Each exam is worth 100 points and you will have a total of 300 exam points for the course. We may use a combination of short answer questions, problem solving questions and multiple choice questions in the exams. The schedule for the exams is found within this syllabus. The final exam is comprehensive but optional. You may take it to replace an exam grade. You must be excused from any exam you do not take or you will receive a zero for it.

Missed exams: Exams must be taken at the assigned times unless excused beforehand. Under these circumstances, you must have a signed excuse from an MD, law enforcement officer, or next of kin. There are a few (not many) valid reasons to miss an exam. If there is a valid reason for you to miss an exam, it is YOUR responsibility to notify the instructor BEFORE the exam or you will receive a zero for the exam. If you miss an exam, you must take the final. Make-up exams will not be given.

Academic dishonesty:

If you are caught cheating on an exam, you will receive a zero for that exam with no opportunity to replace the grade. Academic dishonesty sometimes influences admission into professional programs or later opportunities for employment.

Exams and points:

Exams and optional final	3 X 100 pts.	300 pts. _____
Total		300 pts.

Grading:***

- 90-100% A
- 80-89% B
- 65-79% C
- 50-64% D
- below 50% F

***Final grades are based on total lecture points.

The instructor reserves the right to utilize a grading curve to determine your final grade.

Text:

Nester; Microbiology: A Human Perspective (6th edition); McGraw-Hill Publishing, 2009; 5th edition also OK.

Biol 251 Topics (tentative)

<u>Day/Date</u>	<u>Lecture</u>	<u>Text Material Covered</u>	
W 9-9	1	Introduction, Chapter 1	} Microbial Biology & Control
F 9-11	2	Chapter 3	
W 9-16	3	Chapters 3, 4	
F 9-18	4	Chapter 4	
W 9-23	5	Chapter 6	
F 9-25	6	Chapter 7	
W 9-30	7	Chapters 8, 9	
F 10-2		Exam 1	
W 10-7	8	Chapter 13	
F 10-9	9	Chapter 14	
W 10-14	10	Chapter 5	
F 10-16	11	Chapter 21	
W 10-21	12	Chapter 15	
F 10-23	13	Chapter 16	
W 10-28	14	Chapter 16	

F 10-30		Exam 2	Immunol. & Microbial Pathogenesis	
W 11-4	15	Chapter 17		
F 11-6	16	Chapter 19		
W 11-11	no class	Veteran's Day		
F 11-13	17	Chapter 20		
W 11-18	18	Chapter 22		
F 11-20	19	Chapters 23, 24		
W 11-25 – F 11-27	no class	Thanksgiving Holiday		Infectious Diseases by Organ System
W 12-2	20	Chapter 25		
F 12-4	21	Chapter 26		
W 12-9	22	Chapter 27		
F 12-11		Exam 3		
W 12-16	FINAL EXAM	2:00 – 3:50		