

BISC 300
Introduction to Microbiology
Winter 2009

Instructor

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Required Texts

Prescott, LM, Harley, JP, and Klein, DA. 2008. *Microbiology*, 7th ed. Wm. C. Brown Publishers, Dubuque, IA.

Final Lecture Exam

There will be a comprehensive final exam given on Saturday February 7 at a time to be announced by the University.

Laboratory

The laboratory portion of this course is not offered in winter session but must be completed spring semester. Contact Dr. David Smith by phone at 831-2275 or e-mail (dwsmith@udel.edu) to schedule a spring semester laboratory section as soon as possible.

Academic Honesty and Dishonesty Policy

Students are encouraged to become familiar with the *University of Delaware Guide to University Policies* found online at <http://www.udel.edu/stuuide/current>. Information on academic honesty is found by clicking on the **Code of Conduct** link.

Grading

The course grade is determined by the student's performance in lecture and laboratory. The distribution of the grading is as follows;

	Percent of Final Grade
Exam I	20
Exam II	20
Final Exam	30
Laboratory	30
Laboratory quizzes	5
Laboratory practical	5
Laboratory reports	10
Final Laboratory exam	10

Grading Scale

Students will earn their final course grades based on the following:

A = 93% average and above	C = 73-76%
A- = 90-92%	C- = 70-72%
B+ = 87-89%	D+ = 67-69%
B = 83-86%	D = 63-66%
B- = 80-82%	D- = 60-62%
C+ = 77-79%	F = \leq 59%

Absences

Lecture attendance is not required, but it is highly recommended. I cover a lot of material in each class period, and not all of the material is in the textbook. There will be no make-up exams except in the case of **extenuating** circumstances, in which case documentation may be requested. It is the student's responsibility to contact the instructor **before** the exam if possible, or as soon as possible after the missed exam. Once an exam has been taken, the grade will stand.

Lecture Syllabus

Date	Topic(s)	Reading Assignments*
January 5	History of Microbiology	Chapter 1
January 6	Microscopy and Staining	Chapter 2
January 7	Prokaryote Structure and Function & Eucaryote Structure and Function	Chapters 3 & 4
January 8	Microbial Nutrition & Microbial Growth	Chapters 5 & 6
January 9	Microbial Growth (Cont'd.) & Metabolism	Chapter 8
January 12	Metabolism (Cont'd.) & Genetics: DNA and Gene Structure	Chapters 9, 10 & 11
January 13	Genetics: DNA and Gene Structure (Cont'd.)	Chapter 11
January 14	Genetics: Gene Expression and Genetic Exchange	Sections 13.1 – 13.9 Sections 14.1, 14.9, & 14.10
January 15	Exam I (Through Genetics)	
January 16	Viruses	Chapter 16, Sections 17.1 & 17.2 Sections 18.1 – 18.5 & 18.10
January 19	Holiday—No Classes	
January 20	Taxonomy & Symbiotic Associations and Normal Microbiota & Nonspecific Host Resistance	Sections 19.1 & 19.6, Chapter 30
January 21	Nonspecific Host Resistance (Cont'd.)	Chapter 31
January 22	Specific Immunity	Sections 32.1 – 32.4 & 32.7
January 23	Specific Immunity (Cont'd.)	Sections 32.5, 32.6, 32.8, & 32.9
January 26	Immune Disorders	Sections 32.10 & 32.11
January 27	Pathogenicity of Microorganisms	Chapter 33
January 28	Control of Microorganisms	Chapter 7
January 29	Exam II (Through Pathogenicity)	
January 30	Antimicrobial Chemotherapy	Chapter 34
February 2	Clinical Microbiology & Immunology, Epidemiology of Infectious Diseases, and Biological Weapons	Chapter 35 Sections 36.1 – 36.4, 36.8 – 36.11
February 3	Human Diseases Caused by Bacteria	Chapter 38 (Selected topics)
February 4	Human Diseases Caused by Bacteria (Cont'd.)	
February 5	Human Diseases Caused by Viruses and Protozoa Diseases	Chapter 37 (Selected topics) Chapter 39 (Selected topics)
February 6	Environmental Microbiology	Sections 27.1 & 27.2 Chapter 28 (Selected topics)
February 7	Final Exam (Time TBA)	

*Students are not necessarily responsible for all the material in each chapter, only the material presented in class.

The above is a tentative schedule; I reserve the right to make changes as deemed necessary. Exam dates should not change.