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BIOL 105-01, Disease and Immunity, Spring 2006

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Syllabus



Links

Disease and Immunity, Spring 2006

Rhodes College

Prof. Gary J. Lindquenter

M,W,F 1:00-1:50

Buckman 216

Schedule

Date	Topic (click on topic to access notes)	Reading* (check for updates)
11 Jan	Course Organization and Introduction	Popular press articles
13	<u>What was and is disease?</u>	Z-1, Z-2
18	<u>Introduction to the mechanisms of disease</u>	Z-Intro, M-Intro, M-1, M-8, reference materials**
20,23	<u>Epidemiology</u>	M-7 (pp145-156); view Nova: What's Killing the Children
.	BACTERIA:	.
25	<u>Bacterial Diseases</u>	M-9 (p212), M-10 (pp216-219), M-11 (pp237-239), Z-3 (optional)

27	<u>Macromolecules and Cells</u>	HO - pp25-30, Martini and Bartholomew, 1999, <i>Structure and Function of the Human Body</i> , Prentice Hall.
30	Replication and Transcription	
1 Feb	Translation	
3	Quiz on Jan 27-Feb 1 material; Diagnosis, Pathogenesis, and Treatment	
6 Feb	TEST I	
	VIRUSES:	
8 Feb	Viral Diseases	
10, 13	Eukaryotic Cells	Reserve: Thibodeau and Patten, 1997, <i>The Human Body in Health and Disease</i> , Mosby, Chap 2 (pp18-35, but not stages of mitosis).
15,17,20	<u>Virus structure and replication</u>	Z-6 (pp101-111). Z-8
22	<u>Virus infection and pathogenesis</u>	
24	Quiz on Feb 10-22 material; <u>Fungi and parasites</u>	Z-9
27	<u>Cancer</u>	
1 Mar	<u>Degenerative Diseases and Aging</u>	
3 Mar	TEST II	
6	<u>Presentation information and example</u>	
8,10,20,22	<u>IMMUNITY</u>	M-2,3,4, Z-6 (pp111-115), Your Immune System (video)
24	Quiz on Mar 8-22 material; <u>Vaccines;</u>	M-11
27	<u>Vaccines</u>	

Allergies

29

31 Mar **TEST III**

3 Apr topic TBA

5 student presentations TBA

7 student presentations TBA

10 student presentations TBA

12 student presentations TBA

17 student presentations TBA

19 student presentations TBA

21 student presentations TBA

24 HIV and AIDS Z-10

26 Gene therapy, stem-cell research, and cloning**Tue May 2** **TEST IV / FINAL EXAM** **8:30 a.m.****OR****Wed May 3** **TEST IV / FINAL EXAM** **8:30 a.m.*****Readings:** Abbreviation denotes author's initial and chapter number whereM = Mims, Cedric, 2000, *The War Within Us*, Academic Press.Z = Zimmerman, Barry, and Zimmerman, David, 2003, *Killer Germs: Microbes and Diseases that Threaten Humanity*, Rev. Ed., Contemporary Books.

HO = Supplemental readings to be assigned during the semester; photocopies or reserve copies will be provided.

If page numbers are specified, you may limit your reading to those pages of the chapter.

****Reference material:** The following are provided to refresh your background on basic biology as needed.Structure & function of cells and macromolecules with Barrett Library reserve readings[Thibodeau and Patten, 1997, *The Human Body in Health and Disease*, Mosby, Chap 2 (pp18-35, but not stages of mitosis)].Structure & function of tissues, organs and systems with Barrett Library reserve readings(Thibodeau and Patten, 1997, *The Human Body in Health and Disease*, Mosby, Chap 2 (pp36-47) and Chap 3)[Syllabus](#) | [Lecture Schedule and Notes](#) | [About the Professor](#)[Rhodes College](#) | [Links](#)

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