

Medical Microbiology –BIOL4340

Spring Semester 2011 – T/Th 5:05-6:25pm

Instructor: Dr. Jonas Winchell

Email: zdx2@cdc.gov

Text: Schaechter's Mechanisms of Microbial Disease, 4th ed., Engleberg et. al.

Articles as Assigned

General

Week 1

Overview of medically relevant pathogens & establishment of disease [1]

Lab Diagnostics [Ch58]

Week 2

Lab Diagnostics II / Evading and surviving the host defenses [Ch8]

Bacterial cell wall [Ch3-pp.18-24;26,27;29-33]

Week 3

Finish Cell Wall

Antibiotics [Ch3-pp.24-26;Ch30]

Week 4

Antibiotics (con't)

Mechanisms of resistance to Abx

Week 5

Exam 1 (02/08/11)

Bacillus anthracis

Week 6

Bacterial pneumonia agents (including atypicals) [Ch 29, parts of 27, Ch13]

Week 7

Clostridium spp. [Ch 20]

Week 8

Borrelia burgdorferi [Ch25]

Yersinia pestis

Week 9

EXAM 2 (03/08/11)

Mycobacterium tuberculosis [23 pp.251-260]

Week 10

Chlamydia trachomatis [Ch27- pp.285-291]

Neisseria gonorrhoeae [Ch14- pp.173-179]

SPRING BREAK 3/21-3/25

Week 11

Parasitology overview [Ch51]

Plasmodium spp. [Ch.52- pp.489-495]

Week 12

Exam III (04/05/11)

General Virology [Ch31]

Week 13

Rotavirus

Paramyxoviruses [Ch34]

Week 14

Prions

Week 15

Case Studies

Final (150 pts.) May 5th, 2:50-5:40pm

Grading: Exam I = 100pts
Exam II = 100pts
Exam III = 100pts
Class Partic. = 50pts
Final (Cumulative*) = 150pts
Total = 500pts

*Although class attendance is not mandatory, it is strongly recommended that you attend every class. In addition, class participation is worth **50pts** which requires attendance. If you do miss a class, YOU are responsible to get any handouts or notes from your classmates. Each exam and the final will be cumulative; however emphasis will be placed from the previous exam forward. As always, please ask questions whenever you don't understand something, or need clarification. I am available before classes by arrangement and immediately after most classes and you can email me any questions, but please do not wait until the last minute. Further, since I am only on campus for the days the class meets, make-up exams are extremely difficult to schedule and are discouraged for a variety of reasons. If absolutely necessary, an ORAL make-up exam may substitute at my discretion, contingent upon many factors, but mostly due to time. **Extra credit projects are not an option to raise a poor grade, therefore please prepare for each exam accordingly.**

Lastly, due to the significantly increased responsibilities in my life, I unfortunately can no longer provide letters of recommendation. This is something I have tried to avoid, however I no longer can meet all the deadlines I have in a 24 hour day and I am sorry to say the writing of recommendations had to undergo a moratorium. Regardless, I truly hope you enjoy the class.