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BIOL 106.01: Elementary Medical Microbiology

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Elementary Medical Microbiology BIOL 106N 01 3 credits CRN:30648

Instructor: Ralph C. Judd Office: HS410 Phone: 243-2347 Office hours: Tuesday, Thursday 9:00-10am
Lecture: MWF 8:10am ULH 101
Text: Clinical Microbiology made ridiculously simple
FacPac: Available from the bookstore.

Goals: The goal of this course is to acquaint students with the basic principles of immunology and infectious disease. Students are expected to learn the basics of host defense systems, infectious diseases agents important in the United States (bacterial, viral, fungal, and parasitic) and methods of treatment and prevention of these disease agents. Upon completion of this course, students should be well prepared to protect themselves and their families from infectious diseases and be academically prepared to enter courses of study in microbiology and/or health-related professions. Achievement of these goals will be assessed by three one hour exams (100pts each) and a two hour final exam (200pts). Final grades normalized to highest points earned. Grades will then be assigned on a >90% = A; 89-80 = B; 79-70 = C; 69-60 = D; <60 = F.

| <u>Date</u> | <u>Topic</u> | <u>FacPac beginning page/Clin Micro MRS chapter</u> |
|------------------|---|---|
| January 27 | Introduction | p1 |
| 29 | Introduction | p1 |
| 31 | Infectious Agents | p4/2 |
| February 3 | Interaction of Host and Infectious | p6 |
| 5 | Non-specific Defenses | p8 |
| 7 | Non-specific Defenses, Immunity | p8, p10 |
| 10 | Acquired Immunity | " |
| 12 | Acquired Immunity | " |
| 14 | Acquired Immunity | p8, p10 |
| 17 | Holiday! Presidents' Day | DECLARATION OF INDEPENDENCE |
| 19 | Catch-up/Review | |
| 21 Friday | EXAMINATION #1 | |
| 24 | Introduction to Bacterial Diseases | p14/1 |
| 26 | Gram Positive Cocci | p18/4,5 |
| 28 | Gram Positive Cocci | " |
| March 3 | Gram Negative Diplococci | p20/8 |
| 5 | Gram Positive Sporeformers | p24/6 |
| 7 | Gram Positive Non-sporeformers | p28/7 |
| 10 | Mycobacteria | p29/14 |
| 12 | Gram Negative Enterics | p32/9 |
| 14 | Gram Negative Enterics | " |
| 17 | Gram Negative Coccobacilli | p35/10,11 |
| 19 | Catch-up/Review | |
| 21 Friday | EXAMINATION #2 | |
| 24,26,28 | Spring Break!! | PARTY MANUAL |
| Spirochetes | p38/13 | 31 |
| April 2 | Mycoplasma/Rickettsia | p40/15,12 |
| 4 | Chlamydia | P42/12 |
| 7 | Bacteria Overview | |
| 9 | Antibiotics | p43/16,17,18,19,33 |
| 11 | Antibiotics | " |
| 14 | Introduction to Viruses | p48/22 |
| 16 | Viral Diseases, DNA viruses | p48/26,27 |
| 18 | Viral Diseases, DNA viruses, RNA viruses | p51/24 |
| 21 | Viral Diseases, RNA viruses, Lentiviruses (HIV) | p54/23,25,28,29 |
| 23 | Catch-up/Review | |
| 25 Friday | Examination #3 | |
| 28 | Fungal Diseases, Superficial, Subcutaneous | p55/20,21 |
| 30 | Fungal Diseases, Systemic, Opportunistic, Toxic | " |
| May 2 | Introduction to Parasitic Diseases, Protozoa | p59/30 |
| 5 | Parasitic Diseases, Nematodes, Trematodes | p61/31 |

May 14 Wednesday FINAL EXAMINATION 10:10am - 12:10pm, ULH 101

NOTE: University policies on drops, adds, changes of grade option, or change to audit status will be strictly enforced in this course. These policies are described on p. 19 of the 2002-2003 catalog. Students should specifically note that after the 30th day of the semester, such changes are NOT automatically approved. They may be requested by petition, but the petition MUST be accompanied by documentation of extenuating circumstances. Requests to drop a course or change the grade basis to benefit a student's grade point average will not be approved.