Course Syllabus: MICR 2330 Microorganisms and Diseases (CRN#21663)

Classroom: Undergraduate learning Center (UGLC) #346
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Required Materials:

Course Description:
- Survey of microorganisms important to humans with emphasis on pathogens;
- Diagnostic procedures for pathogenicity and immune responses to the more common pathogens.

Course Objectives:
After the completion of this course, students can understand the basic concepts and information in the science of microbiology, and are able to describe and use the general methods learned from this course to study microorganisms important to humans with emphasis on pathogens.

Evaluation:
Four quizzes and two projects will be given for this course. The final examination will be comprehensive, covering all reading and lectures, and will be given during the last week of this semester. The exercises (Review Questions) that accompany each chapter will be given. The exercises encourage students to immediately use their newly acquired knowledge and, thus, by practice, improve retention.

Grading:
Your grade in this course is based on a combination of quizzes, exam, and participation in class. Grades are based on a straight percentage scale; there is no curve and no +/- grades are awarded. So, an A=100-90%, a B=89.9-80%, a C=79.9-70%, a D=69.9-60%, and F=<60%. Quizzes: 180 points; Projects: 60 points; Final Exam: 130 points; Class Participation & Attendance: 30 points; Course Total: 400 points

Make-up Policy: For any reason, if you are not able to be in classroom for the quizzes/exams, you have to inform instructor before the quizzes/exams. Then the instructor can reschedule your missed quizzes/exams. Otherwise, it will result in a grade of 0% for the quizzes/exams.

Attendance, Absence and Drop Policy: Attendance in this course is critical to your success. Not only attending lecture aid in your understanding of course material, attendance is mandatory. If missing four class hours, you will be dropped from this class. If you have a serious illness or a legitimate excuse (includes military personnel called to active duty or training) for being out-of-town, make arrangements with instructor before you leave. April 6 is the last day students may drop with an automatic “W”.

Academic Integrity Policy: UTEP’s policies regarding academic integrity apply in this course. Information on this policy can be found at http://academics.utep.edu/Default.aspx?tabid=23785

Civility Statement: Please be respectful of all students’ right to learn without disruptions. In line with this statement please make an active effort to respect the other students in the classroom. Avoid making excessive amounts of noise and try to remember to turn off your cell phone.

Disability Statement: If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or
visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.

The following schedule is tentative, and the dates of lectures may be changed.

1st week:
   Introduction
   Ch 01: Human and the Microbial World

2nd week:
   Ch 02: The Molecules of Life
   Ch 03: Microscopy and Cell Structure

3rd week:
   Ch 04: Dynamics of Prokaryotic Growth
   Ch 05: Control of Microbial Growth

4th week:
   Ch 06: Metabolism: Fueling Cell Growth
   Ch 07: The Blueprint of Life, from DNA to Protein

5th week:
   Ch 08: Bacterial Genetics
   Ch 09: Biotechnology and Recombinant DNA

6th week:
   Quiz 1 (Chapters 1-8)
   Ch 10: Classification and Identification of Prokaryotes

7th week:
   Ch 12: The Eukaryotic Members of the Microbial World
   Ch 13: Viruses, Viroids, and Prions
   (1st Project Due)

8th week:
   Spring Break

9th week:
   Ch 14: The Innate Immune Response
   Ch 15: The Adaptive Immune Response

10th week:
   Ch 16: Host-Microbe Interactions
   Ch 17: Immunologic Disorder

11th week:
   Ch 18: Applications of Immune Responses
   Ch 19: Epidemiology

12th week:
   Ch 20: Antimicrobial Medications
   Ch 21: Respiratory System Infections

13th week:
   Ch 22: Skin Infections
   Ch 24: Digestive System Infections
   (2nd Project Due)

14th week:
   Chapter Review and Project
   Quiz 2 (Chapters 9-18)

15th week:
   Ch 27: Blood and Lymphatic Infections
   Ch 28: HIV Disease and Complications of Immunodeficiency

16th week:
   Quiz 3 (Chapters 19-22, 24, 27, 28)
   Final Review

17th week:
   Final Examination (Thursday, May 14th, 2015, 4:00-6:45pm)