

Course Syllabus: MICR 2330 Microorganisms and Diseases (CRN#11838) Fall 2015

Classroom: PSCI 208

Instructor: Dr. Roshanak Jafari

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Class Hours: MW 1:30 -2:50 pm; **Office Hours:** TR 1:30 – 3:00 pm

Required Text Book:

Eugene W. Nester, et al. Microbiology, A Human Perspective, 7th Ed., 2011 (ISBN: 0073375314).

Important dates:

- Aug. 24** **Classes begin**
- Sep. 7** **Labor Day (University is closed)**
- Oct. 30** **Course drop deadline (Last day to drop with an automatic W)**
- Nov. 26 -27** **Thanksgiving Holidays**
- Dec. 3** **Last day of classes**
- Dec. 9** **Final exam: 4:00 pm – 6:45 pm**

Course Description

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

Attendance

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.

Evaluation

Four exams will be given for this course. Three exams will be given during the semester. The final exam will be given during the finals 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 exams, 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=89-80%, a C=79-70%, a D=69-60%, and F=<60%.

Grading Policy:

Exam 1: 20% of final grade

Exam 2: 20% of final grade

Exam 3: 20% of final grade2

Final Exam: 20% of final grade

Attendance: 10% of final grade

Project: 10% of final grade

Total: 100%

Some pop quizzes may be given during the class hours for extra credits. (In total about 10% of final grade)

MAKE- UP EXAM POLICY: There is no make-up test!

Academic Integrity Policy: Information on UTEP's Policies regarding academic integrity can be found at <http://academics.utep.edu/Default.aspx?tabid=23785>

Civility Statement: Cell phones are either to be turned off or turned to vibrate during lecture; talking during lecture is not permitted. Please be respectful to all students' right to learn without disruption.

Disability Statement: If a student has or suspect he/she has a disability and needs an accommodation, he/she should contact The Center for Accommodations and Support Services (CASS) at 747-5184 or at cass@utep.edu or go to room 106 in the Union East Building. The student is responsible for presenting to the instructor any CASS accommodation letters and instructions.

Military: If one serves in the military and has the potential of being called up, that fact should be made known to the instructor.

The following schedule is tentative, and the dates of lectures and exams, and the chapters for each exam may be changed.

1st week:

Introduction

Ch 01: Human and the Microbial World

Ch 02: The Molecules of Life

2nd week:

Ch 03: Microscopy and Cell Structure

Ch 04: Dynamics of Prokaryotic Growth

3rd week

Labor Day (no class)

Ch 05: Control of Microbial Growth

4th week:

Ch 06: Metabolism: Fueling Cell Growth

Chapters Review

5th week:

Exam 1: (Chs 1, 2, 3, 4, 5)

Ch 07: The Blueprint of life, from DNA to Protein (I)

6th week:

Ch 07: The Blueprint of life, from DNA to Protein (II)

Ch 08: Bacterial Genetics

7th week:

Ch 09: Biotechnology and Recombinant DNA (I)

Ch 09: Biotechnology and Recombinant DNA (II)

8th week:

Chapters Review

Exam2: (Chs. 6, 7, 8, 9)

9th week:

Ch 10: Identification and Classification of Prokaryotes

Ch 12: The Eukaryotic Members of the Microbial World (I)

10th week:

Ch 12: The Eukaryotic Members of the Microbial World (II)

Ch 13: Viruses, Viroids, and Prions

11th week:

Ch 14: The Innate Immune Response

Ch 15: The Adaptive Immune Response

12th week:

Chapters Review

Third Exam (Chs 10, 12, 13, 14, 15)

13th week:

Ch 16: Host-Microbe Interactions

Ch 21: Respiratory System Infections (I) & **Project Due**

14th week:

Ch 21: Respiratory System Infections (II)

Ch 24: Digestive System Infections

15th week:

Ch 24: Digestive System Infections

Ch 28: HIV Disease and Complications of Immunodeficiency

16th week:

Final Examination (Wednesday, December 9, 2015, 4:00 – 6:45pm, Chs 16, 21, 24, 28)

Rules for tests:

- 1. Cell phones must be turn off!**
- 2. No listening device may be worn!**