

## **Course Syllabus: MICR 2330 Microorganisms and Diseases (CRN#23277) Spring 2016**

**Classroom: PSCI 208**

**Instructor: Dr. Roshanak Jafari**

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**Class Hours:** TR 3:00 - 4:20 pm; **Office Hours:** TR 1:30 - 2:30 pm or by appointment

**Required Text Book:**

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

### **Important dates:**

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|--------------------|--|
| <b>Jan. 19</b>     | <b>Classes begin</b>   |
| <b>Mar. 7 - 11</b> | <b>Spring Break (No Classes)</b>                                   |
| <b>Mar. 25</b>     | <b>Cesar Chavez Birthday – Observance (no class day)</b>           |
| <b>Mar. 25</b>     | <b>Spring Study Day (no class day)</b>                             |
| <b>Apr. 1</b>      | <b>Course drop deadline (Last day to drop with an automatic W)</b> |
| <b>May 5</b>       | <b>Last day of classes</b>   |
| <b>May 12</b>      | <b>Final Exam, 4:00 – 6:45 pm</b>                                  |

### **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 may 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 grade

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. (UP to 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](mailto: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.**

1<sup>st</sup> week:

Introduction, Ch 01: Human and the Microbial World

Ch 02: The Molecules of Life

2<sup>nd</sup> week:

Ch 03: Microscopy and Cell Structure

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3<sup>rd</sup> week

Ch 04: Dynamics of Prokaryotic Growth

Ch 05: Control of Microbial Growth

4<sup>th</sup> week:

Ch 06: Metabolism: Fueling Cell Growth

Chapters Review

5<sup>th</sup> week:

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

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

6<sup>th</sup> week:

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

Ch 08: Bacterial Genetics

7<sup>th</sup> week:

Ch 09: Biotechnology and Recombinant DNA (I)

Ch 09: Biotechnology and Recombinant DNA (II)

8<sup>th</sup> week

Spring Break (No Classes)

Spring Break (No Classes)

9<sup>th</sup> week:

Chapters Review

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

10<sup>th</sup> week:

Ch 10: Identification and Classification of Prokaryotes

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

11<sup>th</sup> week:

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

Ch 13: Viruses, Viroids, and Prions

12<sup>th</sup> week:

Ch 14: The Innate Immune Response

Ch 15: The Adaptive Immune Response

13<sup>th</sup> week:

Chapters Review

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

14<sup>th</sup> week:

Ch 16: Host-Microbe Interactions

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

15<sup>th</sup> week:

Ch 21: Respiratory System Infections (II)

Ch:24: Digestive System (I)

16<sup>th</sup> week:

Ch 24: Digestive System Infections (II)

Ch 28: HIV Disease and Complications of Immunodeficiency

17<sup>th</sup> week:

**Final Examination (Thursday, May, 12, 2016 Chs 16, 21, 24, 28 )**

**Rules for tests:**

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