

## **Course Syllabus: MICR 2330 Microorganisms and Diseases (CRN#11733) Fall 2016**

**Classroom:** UGLC 126

**Instructor:** Dr. Roshanak Jafari

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**Class Hours:** MW 3:00 - 4:20 pm; **Office Hours:** TR 10:45 – 11:45 am

**Required Text Book:**

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

### **Important dates:**

- |                    |  |
|--------------------|--|
| <b>Aug. 22</b>     | <b>Classes begin</b>   |
| <b>Sep. 5</b>      | <b>Labor Day (University is closed)</b>                            |
| <b>Oct. 28</b>     | <b>Course drop deadline (Last day to drop with an automatic W)</b> |
| <b>Nov. 24 -25</b> | <b>Thanksgiving Holidays</b>                                       |
| <b>Dec. 1</b>      | <b>Last day of classes</b>   |
| <b>Dec. 5</b>      | <b>Final exam: 1:00 pm – 3:45 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. This course cannot be passed without regular attendance. Attendance is not taken routinely in each class, but random attendance will be taken which do not affect directly your final grade, however, actively attending in class will be considered when deciding about the final grades for the students on the border line (i.e. between C or D). There will be attendance sheet for each exam and quiz. You need to make sure to write your name, ID, and sign in the attendance sheet of the exam or quiz when you are turning in your test.

### **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<sup>2</sup>

Final Exam: 20% of final grade

Class Activities Participation (REEF Polling by i>clicker): 10% of final grade

Project: 10% of final grade

Total: 100%

Some pop quizzes may be given during the class hours for extra credits.

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

### **REEF Polling by i>clicker**

I will be using REEF Polling by i>clicker in class this semester. REEF Polling helps me to understand what you know, gives everyone a chance to participate in class, and allows you to review the material after class. I may use REEF Polling to take random attendance as well; please refer to the attendance policy of this syllabus.

Participation with REEF Polling will account for [10] % of your final grade.

You will need to create a REEF Polling account to vote in class using your laptop, smart phone, or tablet connected to the university's Wi-Fi.

#### **Creating Your REEF Polling Account**

Go to <http://reef-education.com> or download the REEF Polling app for iPhone/iPad to sign up for a REEF Polling account. You should use your university email address. Do ***not*** create and use more than one REEF Polling account as you will only receive credit from a single account.

You will not need to purchase a subscription to use REEF Polling this semester because it is provided to you for free.

#### **Add This Course to Your REEF Polling Account**

Search with the following information to find this course and add it to your REEF Polling account:

Institution: The University of Texas at El Paso

Course: MICR 2330 - CRN 11733 **OR** Instructor Name: JAFARI

If you need any technical support or help regarding setting up your REEF Polling Account and adding this course to it, please contact me or technical support as soon as possible at the beginning of the semester.

### **Cheating**

I consider submitting votes for a fellow student to be cheating and a violation of the UTEP Handbook of Operating Procedures. If you are caught voting for another student or have votes in a class that you did not attend, you will forfeit all REEF Polling point and may face additional disciplinary

**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.**

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 (Monday, December 5, 2016, 1:00 – 3:45pm, Chs 16, 21, 24, 28 )**

**Rules for tests:**

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