

Kennesaw State University
Department of Molecular & Cellular Biology
Fundamental Microbiology

Instructor: Premila Achar
Room: Lecture: Prillaman Health Sciences /CSM
Course: BIOL 2261: Lecture time (TBA)
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Office Hours: On Appointments: pachar@kennesaw.edu
Course Support: <http://d2l.kennesaw.edu/>

Lab Information

- Labs sessions are taught by Graduate Teaching Assistant or assigned teacher and graded independent of lecture and the credit earned are separate from each other.
- You may fail one and pass other, and get to keep the one you succeed and repeat the one you fail in another semester. Or you may clear both during a semester!!!
- All lab sections meet in Prillaman Health Sciences, 3413
- Contact your Graduate Teaching Assistant /assigned teacher for all lab related issues

Catalog Description: BIOL 2261; Fundamental Microbiology

Course Requirement and Prerequisite

C or better grade in BIOL 2221/2221L. Basic principles and techniques of microbiology including the various types of microbes, their morphology, metabolic processes and their relationships to humans; basic microbiology laboratory principles emphasizing fundamental isolation, identification, and culture techniques. Primarily for nursing majors. Cannot be used for credit toward a degree in Biology. You must have completed 2221 and 2221 Lab with a “C” or higher or you will be dropped from the course. Biology 2261 is a microbiology course primarily for nursing majors. This course cannot be used to satisfy the general education science requirement, nor can it be applied towards degrees in Biology, Chemistry, Biotechnology or Biochemistry.

Required Course Materials

Lecture

- 1) Prescribed Microbiology Textbook: Microbiology: An Introduction. 12th edition, Tortora, Funke and Case, Pearson.
- 2) Power Point lecture slides available through Desire 2Learn or files.kennesaw.edu
- 3) For all assignments, BIOL 2261 access to D2L or on line resource, Mastering Micro.

Learning Outcomes:

The overall objective is to gain working knowledge and basic skills in the field of microbiology at an average level (70% of possible points) or above. As a result of completing this course with a grade of C or higher, students will:

1. Know and convey what microorganisms are, how they are similar and dissimilar, and the roles they play in human health.
2. Know and convey factors related to microbial growth and the control of microbial growth.
3. Identify infectious diseases by clinical signs, systems affected, how the immune response limits infection and the spread and control of diseases (epidemiology).
4. Show proficiency in the basic skills of handling, examining, and identifying microbes.
5. Investigate microorganisms as they relate to human health through experiments, and demonstrate knowledge of the experimental outcomes and interpretations.

Attendance

If you expect to earn a better than average grade in this course then attendance is necessary and strongly encouraged.

Inclement Weather

In the event that class/lab could be cancelled due to inclement weather, the official status of the university can be checked through the KSU website: <http://www.kennesaw.edu> and click on Campus Advisories under Quick Links. The schedule is subject to change if class is cancelled due to weather, emergencies, or such; however, all attempts will be made to adhere to this schedule. If cancellation does occur, exams or assignments will be rescheduled/due for the next class/lab meeting.

Make-up quiz/exam/assignments

- **There is no Make up. Make-up quiz/exam/assignments will only be granted in extreme circumstances,** and at the instructor's discretion. Examples of acceptable excuses include: serious illness, funeral and others. The determination of the validity of other excuses and the necessary documentation to support them will be at the instructor's discretion.
- Make-up examinations may consist of different question types, including essay questions, and they are usually more difficult than the scheduled examination.
- There is no make-up for Final exam.
- There is no further make-up if student missed a scheduled make-up.
- If dates in the schedule below clashes with an event you have planned prior to posting of this syllabus to D2L, please inform me in class or via email before DROP/ADD week to afford you a make-up. No make –up will be afforded without valid supporting document.
- The dates for examinations are listed below to be marked on your calendar and if it clashes with any of your academic activities, student should notify me in the first week of lecture.

Classroom Etiquette

- Students are expected to be civil and respectful toward the instructor and peers. Disturbance in the classroom by carrying on private conversations while the instructor or other students are addressing the class is discourteous.
- All cell phones should be turned off during the lecture period. Arrive on time for lectures.

Course Grading Procedure & Policies

This is a University sophomore level course. Students are required to gain working knowledge of fundamental microbiology and be able to apply this knowledge. Grades are assigned based on student performances using lecture examinations. A passing grade reflects the ability to test and complete assignments at 70% proficiency or higher. Consistent attendance and participation in lecture, preparation, frequent review of the material from text books, powerpoint lectures and on line resources accompanied by prescribed textbook are fundamental to doing very well in this course.

Mastering Micro (on-line supplemental access)

- To access this learning support, Mastering Micro, **it is required** that you purchase the **Access Code** to register for the course.
- Access code is accompanied with new textbook available at KSU. If your textbook is a borrowed one then you have to purchase the access code on line from Pearson.
- Once you register to the online resource, with your **Access code** which you get with your new textbook or purchase on line, then only you can access BIOL 2261 for the semester you have registered for.
- More instructions as how to register to **Mastering Micro** during class time.

Final letter grades

Final letter grades A, B, C in the course will be assigned according to the point breakdown listed below:

1. The grade in this class is determined by the total number of points earned on examinations and on line Quizzes and Homework (Table 1).
2. Examinations are closed book, multiple-choice exams. Exam questions include content from lectures and textbook readings
3. The final examination is comprehensive.
4. Extra credits of upto 10 points may be offered, at the discretion of the instructor throughout the semester and the points earned will be added directly to the cumulative points scored on the exams. Extra credits are given for active participation in class during the course, and leadership in group activity or any other course related class activities.
5. Students are required to purchase scantron sheet from KSU bookshop for each exam.

Table 1

Graded Assignments	Totals	Final Course Grades	Percentage (%)
Categories	Points	Grade Symbol	
2 Mid-term Exams @ 100 pts	200	A	90-100
Comprehensive Final Exam	100	B	80-89
4 Online Quizzes Quizzes @ 20 points each	80	C	70-79
4 Homework @ 10 points each	40	D.	60-69
Grand Total	420 pts	F	<60

**Class Activities are not scheduled-random date*

Lecture Schedule & Outline (subject to change)

Dates	Book Chapters	Topics
TBA		First Day of class Introduction to Class & Syllabus
	Chapter 1	Microbes
	Chapter 1 (contd.)	
	Chapter 2	Methods for Studying Microbes
	No Class: Library Day	Make List of 10-15 Infectious Diseases of Humans, Symptoms and cure from resources at KSU journals and submit in your next class
	Chapter 2 (contd.)	
	Chapter 3	Prokaryotes
	Chapter 3 (contd.)	
	Chapter 4	Eukaryotes
	Chapter 4 (contd.)	
	On line Quiz 1	Chapters 1, 2, 3 & 4
	Chapter 5	Viruses
	Chapter 5 (contd.)	
	Chapter 9	Control of Microbes
	Chapter 9 (contd.)	
	Chapter 10	Antimicrobial Treatment
	Chapter 10 (contd.)	
	Chapter 11	Microbe- Host Interactions
	Chapter 11 (contd.)	
	Guidelines for Exam	
	On line Quiz 2	Chapters 5, 9, 10 & 11
	Exam 1	On completed Chapters only. Chapters not tested in Exam 1 will be tested in Exam 2
	Chapter 12	Immunology
	Chapter 12 (contd.)	
	Chapter 12 (contd.)	
	Chapter 13	Immunology
	Chapter 13 (contd.)	

	Chapter 14	Immunology
	Chapter 14 (contd.)	
	Chapter 15	Diagnostic Microbiology
	Chapter 15 (contd.)	
	On line Quiz 3	Chapters 12, 13, 14 & 15
	Chapter 16	Diseases of the Skin and Eyes
	Chapter 16 (Contd.)	
	Chapter 17	Diseases of the Nervous System
	Chapter 17 (contd.)	
	Exam 2	All chapters completed To date; Chapters not tested in Exam 2 will be tested in Exam 3
	Chapter 18	Diseases of the Cardiovascular & Lymphatic Systems
	Chapter 18 (contd.)	
	Chapter 18 (Contd.)	
	Chapter 19	Diseases of the Respiratory System
	On Line Quiz 4	Chapters 16, 17, 18 & 19
	No Class: Library Day	Write a note on Current status of AIDS: Prevention & Cure
	Chapter 19 (Contd.)	
	Chapter 20	Diseases of the Gastrointestinal System
	Chapter 20 (Contd.)	
	Chapter 21	Diseases of Genitourinary Systems
	Chapter 21 (Contd.)	
	Review	Final Exam
	Final Exam on last day of class	Final Exam
	Final Exam	Cummulative
	Final Grades	Due: 5:00 p.m on date specified by registrar

Academic Integrity

KSU student is responsible for upholding the provisions of the Student Code of Conduct, as published in the Undergraduate and Graduate Catalogs. Section II of the Student Code of Conduct addresses the University's policy on academic honesty, including provisions regarding plagiarism and cheating, unauthorized access to University materials, misrepresentation/falsification of University records or academic work, malicious removal, retention, or destruction of library materials, malicious/intentional misuse of computer facilities and/or services, and misuse of student identification cards. Incidents of alleged academic misconduct will be handled through the established procedures of the University

Judiciary Program, which includes either an "informal" resolution by a faculty member, resulting in a grade adjustment, or a formal hearing procedure, which may subject a student to the Code of Conduct's minimum one semester suspension requirement.

Plagiarism and Cheating

The above is in accordance to the University policy concerning plagiarism and cheating as stated in the KSU Student Code of Conduct. Refer to KSU document. All instances of academic misconduct, both intentional and unintentional, will be handled through established procedures of the University Judiciary Program (<http://www.kennesaw.edu/judiciary/procedur.shtml>). Students violating the University's academic honesty code are subject to University-level disciplinary action, which may include suspension or expulsion from the University. For exams, any student observed cheating will receive an automatic zero for the entire exam in addition to any penalties assessed through campus disciplinary procedures.

Academic Withdrawal Policy

Students may withdraw from one or more courses anytime before the last three weeks of the semester. However, as of Fall 2004, students will be allowed a maximum of eight total withdrawals if they enter KSU as a freshman. Transfer students will be allowed one withdrawal per fifteen credit hours attempted, for a maximum of eight. Students who choose to pursue a second degree at KSU will be allowed two additional withdrawals. Students who entered KSU before the Fall of 2004 will be allowed one withdrawal per fifteen credit hours attempted for a maximum of eight. To withdraw, the student should complete an official withdrawal form in the Office of the Registrar. Students who officially withdraw from courses on or before the last day to withdraw without academic penalty will receive a "W". Students who officially withdraw after the last day to withdraw without academic penalty (and before the last three weeks of the semester) will receive a "WF", which will be counted as an "F" in calculation of their grade point average.

The only exceptions to these withdrawal regulations will be for instances involving unusual circumstances, which are fully documented. Students may appeal to the academic standing committee for consideration of unusual circumstances.

Students cannot withdraw from their courses and remain in the program; they must carry at least 3 hours of credit. Program staff will not handle course withdrawals. Students must contact their home institutions (where they are registered) and handle the process themselves. They must provide the Faculty Member and Program Director with evidence that they have dropped the course.

Academic accommodations

Any student with a documented disability or medical condition needing academic accommodations of class-related activities or schedules must contact the instructor immediately. Written verification from the [KSU disAbled Student Support Services](#) is required. No requirements exist that accommodations be made prior to completion of this approved University documentation. All discussions will remain confidential."

****Good Luck****