



PRAIRIE VIEW
A&M UNIVERSITY

**BIOL 1073- Microbiology
Spring 2016**

Instructor: Dr. Kimberly Greer
Section # and CRN: P04- 23122
Office Location: EE O'Banion Science 430J
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Office Hours: M-F 9a-11a
Mode of Instruction: Face To Face

Course Location: O'Banion rm. 309, lab rm. 308
Class Days & Times: MW 9-9:50a; Lab T 10-11:50am

Catalog Description: BIOL 1073. General Microbiology. (2-2). Credit 3 semester hours. Morphology and physiology of microorganisms related to health and sanitation; disinfection, growth, and control of those organisms causing common infectious diseases. Laboratory fee required.

Prerequisites: None
Co-requisites:

Required Texts:

Lecture Textbook: **Bauman**, Robert W. 2012. *Microbiology, With Diseases by Body System 3rd Edition*. Pearson Education, Inc., publishing as Benjamin Cummings, San Francisco, CA.

Laboratory Manual: **Moore, Quincy. Pre-Nursing Microbiology Lab; Biology 1073L. AVAILABLE IN PVAMU BOOKSTORE ONLY**

Other Materials – Blue / black pens, #2 lead pencils, notebook paper, access to computer / printer, color pencils – red, blue, green, purple.

Student Learning Outcomes:

Upon successful completion of this course, students will be able to:	
1	Demonstrates knowledge of the basic principles and concepts of life at the microscopic level as it

	pertains to microbes.
2	Comprehends the theoretical concepts in microbiology so that they may use this as a basis for future studies in other allied health fields.
3	Analyze the inter-relationships among the microorganisms and higher life forms.
4	Demonstrate the proper techniques and procedures of handling microscopic living organisms, many of which are pathogenic.
5	Employ effective teamwork skills with emphasis on listening, responding, and creating a positive climate

Major Course Requirements

Method of Determining Final Course Grade

Assignment	Points per task		Percentage of total grade
4 lecture exams	100 ea	400	0.3
8 lab reports	10 ea	80	0.09
3 lab quizzes	10 ea	30	0.03
Attendance- class	Total for days taken	100	0.09
Attendance- lab	Total for days taken	100	0.09
Group work	30 pts x 3 tasks	90	0.1
1 Lab exam	100 pts	100	0.1
1 Comprehensive Final	200 pts	200	0.2
Total points		1100	

Grading Criteria and Conversion:

A = 90-100

B = 80-89

C = 70-79

D = 60-69

F = <60

Your final grade for the class is calculated by: $\frac{\text{your total points}}{1100} \times 100 = \underline{\hspace{2cm}} \%$.

Course Procedures or Additional Instructor Policies

Taskstream

Taskstream is a tool that Prairie View A&M University uses for assessment purposes. One of your assignments may be considered an "artifact," an item of coursework that serves as evidence that course objectives are met. More information will be provided during the semester, but for general information, you can visit Taskstream via the link in eCourses.

Cell phones

Cell phones must be secured within a backpack or purse during exams. The backpack or purse must be set aside, against a classroom wall and out-of-reach of any students. Any cell phones found on a person during an exam will result in an automatic "0" score on the exam.

Tardies

Anyone 10 minutes or more late to laboratory sections will not be permitted into the section, and will receive an automatic “0” for that class period. Any assignments collected will not be permissible for submission, and attendance will be scored as “Absent” for that class period. Any scores received for a Tardy will not be eligible for dropping should lowest scores be dropped in final grade calculations.

Semester Calendar

Class Date	Chapter Title	Notes
Jan 20	Pre-test, syllabus review, course materials review, personal data	
Jan 25	Ch. 1 Introduction, Scope, and History of Microbiology	
Jan 27		
Feb 1	CH 11. Characteristics of Prokaryotes	
Feb 3		
Feb 8	Ch. 12 Eukaryotic Cells: Fungi, Lichen, Algae, Molds	
Feb 10		
Feb 15	CH 12 Eukaryotic Cells: Groups, Reproduction, Protozoa	
Feb 17		Review online
Feb 22	Exam 1 Chapters 1, 11/12	
Feb 24	Ch. 3 Cell Structure and Function	
Feb 29		
Mar 2		
Mar 7	Ch. 4: Microscopy, Staining, and Classification	
Mar 9	CH 6. Microbial Nutrition and Growth	
Mar 14-18	Spring Break	
Mar 21		
Mar 23	Exam 2 Chapters 3, 4, 6	
Mar 28	Ch. 13: Viruses	
Apr 4		
Apr 6	Ch. 14: Infection, Infectious Diseases, and epidemiology	
Apr 11		
Apr 13	Exam 3 Chapters 13, 14	
Apr 18	CH 19. Microbial Diseases of the Skin and Wounds	Take Home Exam 4
Apr 20	CH 22. Microbial Diseases of Respiratory System	Online supplements
Apr 25	Ch. 24: Microbial Disease of the Urinary and Reproductive Systems	Online supplements
Apr 27		
May 2	Final exam review	
	FINAL EXAM	

Lab	<u>Exercise(s) to perform</u>	<u>Note</u>	<u>DUE</u>
Jan 19	Lab safety	Forms must be signed off	Biology Lab agreement
Jan 26	Lab 1: Microscope	Text pp. 371-374, 326*327	Scantron: online quiz
Feb 2	Lab 4: Algae and Cyanobacteria Lab 5: Protozoans	Text pp. 353-360, 360-370	Lab 1
Feb 9	Lab 6: Fungi	pp 155-162, 165-167	Lab 4, 5
Feb 16	Lab 2: Aseptic Technique Lab 3: streak plates	p 155	Lab 6
Feb 23	Lab 8: Simple staining		Lab 2, 3
Mar 1	Lab 11: Gram staining	Text pp. 75-76, 111-112	Lab 8
Mar 8	Lab 13: Endospores		Lab 11
Mar 15	Spring Break		
Mar 22	Parasitology/organism laboratory: ONLINE		Lab 13
Mar 29	Antiseptic testing		Parasitology lab
Apr 5	Read Antiseptic results		
Apr 12	Lab review		Antiseptic lab
Apr 19	Lab Final		

Student Support and Success

John B. Coleman Library

The library and its partners have as their mission "to provide resources and instructional material in support of the evolving curriculum, as a partner in Prairie View A&M University's mission of teaching, research, and service" and to support the University's core values of "access and quality, diversity, leadership, relevance, and social responsibility" through emphasis on ten key areas of service. It maintains library collections and access both on campus, online, and through local agreements to further the educational goals of students and faculty.

Center for Academic Support

The Center for Academic Support (CAS) offers Tutoring via peer tutoring. The services include workshops (i.e., Save My Semester, Recalculate Your Route), seminars (i.e., Tools You Can Use: T1-84), group review sessions (i.e., College Algebra Topic Reviews, GRE Preparation), group study opportunities

(i.e., TSIA, HESI, Study Break, Exam Cram), and test-taking strategies (How to take Notes, Study Buddy, 5 Day Study Guide). The Tutoring Center is a nationally certified tutoring program through the National Tutoring Association. The peer tutors are trained and certified by the coordinator each semester.
Location: J.B. Coleman Library

COMPASS

The Center for the Oversight and Management of Personalized Academic Student Success (COMPASS) is designed to help Prairie View students in their second year and beyond navigate towards graduation by providing the following services: Academic Advisement, Targeted Tutorials for Personalized Learning, Campus-Wide Referrals, and Academic & Social Workshops. Location: J.B. Coleman Library

Writing Center

The Writing Center provides student consultants on all aspects of the writing process and a variety of writing assignments. Writing Center consultations assist students in such areas as prewriting, brainstorming, audience awareness, organization, research, and citation. Location: Hilliard Hall 121

University Rules and Procedures

Disability statement (See Student Handbook):

Students with disabilities, including learning disabilities, who wish to request accommodations in class should register with the Services for Students with Disabilities (SSD) early in the semester so that appropriate arrangements may be made. In accordance with federal laws, a student requesting special accommodations must provide documentation of their disability to the SSD coordinator.

Academic misconduct (See Student Handbook):

You are expected to practice academic honesty in every aspect of this course and all other courses. Make sure you are familiar with your Student Handbook, especially the section on academic misconduct. Students who engage in academic misconduct are subject to university disciplinary procedures.

Forms of academic dishonesty:

1. Cheating: deception in which a student misrepresents that he/she has mastered information on an academic exercise that he/she has not mastered; giving or receiving aid unauthorized by the instructor on assignments or examinations.
2. Academic misconduct: tampering with grades or taking part in obtaining or distributing any part of a scheduled test.
3. Fabrication: use of invented information or falsified research.
4. Plagiarism: unacknowledged quotation and/or paraphrase of someone else's words, ideas, or data as one's own in work submitted for credit. Failure to identify information or essays from the Internet and submitting them as one's own work also constitutes plagiarism.

Nonacademic misconduct (See Student Handbook)

The university respects the rights of instructors to teach and students to learn. Maintenance of these rights requires campus conditions that do not impede their exercise. Campus behavior that interferes with either (1) the instructor's ability to conduct the class, (2) the inability of other students to profit from the instructional program, or (3) campus behavior that interferes with the rights of others will not be tolerated. An individual engaging in such disruptive behavior may be subject to disciplinary action. Such incidents will be adjudicated by the Dean of Students under nonacademic procedures.

Sexual misconduct (See Student Handbook):

Sexual harassment of students and employers at Prairie View A&M University is unacceptable and will not be tolerated. Any member of the university community violating this policy will be subject to disciplinary action.

Attendance Policy

Prairie View A&M University requires regular class attendance. Excessive absences will result in lowered grades. Excessive absenteeism, whether excused or unexcused, may result in a student's course grade being reduced or in assignment of a grade of "F". Absences are accumulated beginning with the first day of class.

Student Academic Appeals Process

Authority and responsibility for assigning grades to students rests with the faculty. However, in those instances where students believe that miscommunication, errors, or unfairness of any kind may have adversely affected the instructor's assessment of their academic performance, the student has a right to appeal by the procedure listed in the Undergraduate Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.

Disability statement (See Student Handbook):

Students with disabilities, including learning disabilities, who wish to request accommodations in class should register with the Services for Students with Disabilities (SSD) early in the semester so that appropriate arrangements may be made. In accordance with federal laws, a student requesting special accommodations must provide documentation of their disability to the SSD coordinator.