



PRAIRIE VIEW
A&M UNIVERSITY

**BIOL 1073- Microbiology
Fall 2019**

Instructor: Dr. Kimberly Greer
Section # and CRN: Bio1073P02-2010-14026 and Bio 1073P82-2010-14027
Bio1073P04-2010-13159 and Bio1073P84-2010-13068
Bio1073P05-2010-13652 and Bio 1073P85 -2010-13653
Bio 1073P81-2010-13062

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Office Hours: MWF 10a-12p, TR 9a-11a and by appointment
Mode of Instruction: Face To Face with extensive online supplemental materials (eCourses)

Course Location: Rm. 103, 104, 309, O'Banion rm. 308 (lab)
Class Days & Times: As per PVAMU course catalog

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:

Bauman, Robert W. 2014. *Microbiology, With Diseases by Body System 4th Edition*. Pearson Education, Inc., publishing as Benjamin Cummings, San Francisco, CA. ISBN-13: 978-0321918550
ISBN-10: 032191855X

https://www.amazon.com/Microbiology-Diseases-Body-System-4th/dp/032191855X/ref=mt_hardcover?_encoding=UTF8&me=&qid=

Laboratory Manual: **Microbiology Lab Manual, Kimberly A. Greer**; Kendal Hunt publishing 2017

Available only in the PVAMU bookstore

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 | Percentage of total grade |
|---|-------------------------|---------------------------|
| 1 | 3-4 lecture exams | 0.3 |
| 2 | Lab reports & quizzes | 0.2 |
| 3 | Attendance- class & lab | 0.1 |
| 4 | 1 Lab exam | 0.2 |
| 5 | 1 Comprehensive Final | 0.2 |

Grading Criteria and Conversion:

A = 90-100

B = 80-89

C = 70-79

D = 60-69

F = <60

You are **responsible for calculating your own grade totals.** ECourses does not always calculate them correctly and should not be relied upon to reflect your accurate final grade.

$$\text{FINAL GRADE} = (\text{exam avg} * 0.3) + (\text{reports \& quizzes avg} * 0.2) + (\text{attendance} * 0.1) + (\text{lab exam} * 0.2) + (\text{final exam} * 0.2)$$

Course Procedures or Additional Instructor Policies

Attendance

Attendance is taken throughout the semester and recorded. As listed above, it counts towards your final grade as indicated in PVAMU policies. To receive an excused absence, you must present University accepted form of excuse to include: 1. Doctor's note 2. Legal system letter 3. Personal family obituary reflecting your name specifically

In the event of an excused absence ONLY, late work will be accepted.

Late Work submission/ Missed Exams

No late work is accepted except in the event of an excused absence, as specifically addressed above. EXAMS: For excused absence make-up exams, a separate, short answer or fill in the blank exam will be utilized to evaluate knowledge of the material. **NO EXAMS will be made up in the event of an unexcused (as defined above) exam.**

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

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| Week Of: | Chapter Title | Notes |
|----------------|---|-------------------------------|
| Week 1 | Pre-test, syllabus review, course materials review, personal data | |
| | Ch. 1 Introduction, Scope, and History of Microbiology | |
| Week 2 | Ch. 1 Introduction, Scope, and History of Microbiology | |
| | | Homework sheet |
| Week 3 | CH 11. Characteristics of Prokaryotes | |
| Week 4 | Ch. 12 Eukaryotic Cells: Fungi, Lichen, Algae, Molds | Homework sheet |
| Week 5 | Review | |
| | Exam 1 Chapters 1, 11/12 | |
| Week 6-7 | Ch. 3 Cell Structure and Function | |
| | Ch. 3 Cell Structure and Function | Homework sheet |
| Week 8 | Ch. 4: Microscopy, Staining, and Classification | Homework sheet |
| Week 9 | CH 6. Microbial Nutrition and Growth | Homework sheet |
| Week 10 | Exam 2 Chapters 3, 4, 6 | |
| Week 11 | Thanksgiving Holiday | |
| Week 12 | Ch. 13: Viruses, lytic cycle TAKE HOME EXAM 3: Ch. 13, 24 | |
| Week 13 | Ch. 19: Diseases of Skin and Wounds | Online supplements |
| Week 14 | Ch. 24: Microbial Disease of the Urinary and Reproductive Systems | Online supplements |
| | Review/study day | |
| | FINAL EXAM | Submit Exam 4 scantron |

| Week Of: | Lab week | <u>Exercise(s) to perform</u> | <u>Note</u> | <u>DUE</u> |
|-----------------|-----------------|--|---|---|
| Week 1 | | | Forms must be signed off | Biology Lab agreement |
| Week 2 | | Lab safety | | |
| Week 3 | | Lab 1: Intro to Microscopy | eCourses quiz (lab safety and microscope) | |
| Week 4 | | Lab 2: protists | | Lab 1 Scantron: eCourses quiz |
| Week 5 | | Lab 3: Flagella and Motility | | Lab 2 |
| Week 6 | | Lab 4 | | Lab 3 |
| Week 7 | | Lab 5: Bacterial Colony Morphology Lab 6: Aseptic technique | | |
| Week 8 | | Stains: online exercises | | Labs 5 & 6 |
| Week 9 | | Lab 7: Simple Stains | | Online exercise (mult choice stains) |
| Week 12 | | Lab 8: Gram Stains | | Lab 7 |
| Week 13 | | Lab 9: Handwashing Effectiveness | | Lab 8 |
| Week 14 | | Lab Final | | Lab 9 |

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: TI-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):

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Spring 2019 University Calendar

| | |
|---|--|
| Jan 10 - Jan 11, 2019 Thursday through Friday | Regular Registration Period |
| Jan 14, 2019 Monday | First Class Day |
| Jan 14, 2019 Monday | Tuition payment deadline is 5:00 p.m. for all students who registered for the spring semester |
| Jan 14 - Jan 16, 2019 Monday through Wednesday | Late registration for the spring semester for all students who have not yet registered. To complete registration, students must pay by 5:00 p.m. on Wednesday, February 6. |
| Jan 14 - Jan 18, 2019 | Add/Drop for all students for the spring semester. Tuition payment for all students who |

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|---------------------------|---|
| Monday through Friday | add/drop for spring must pay by 5:00 p.m. on Wednesday, February 6. |
| Jan 21, 2019 | |
| Monday | Dr. Martin Luther King Day (University Closed) |
| Jan 22, 2019 | |
| Tuesday | Class resumes |
| Jan 30, 2019 | |
| Wednesday | 12th Class Day (Census Date) |
| Jan 30, 2019 | |
| Wednesday | Last day to drop/withdraw from course(s) without academic record. A financial record will still exist. |
| Jan 31 - Mar 29, 2019 | |
| Thursday through Friday | Withdrawal from course(s) with record ("W") |
| Feb 06, 2019 | |
| Wednesday | Tuition payment deadline is 5:00 p.m. for all students who late registered and add/drop for spring semester |
| Feb 11, 2019 | |
| Monday | 20th class day |
| Feb 12 - Apr 30, 2019 | |
| Tuesday through Tuesday | Submit application for Tuition Rebate for spring graduation undergraduate candidates |
| Mar 07 - Mar 09, 2019 | |
| Thursday through Saturday | Mid-semester examination |
| Mar 11 - Mar 16, 2019 | |
| Monday through Saturday | Spring Break (University Closed 3/15/2019) |
| Mar 18, 2019 | |
| Monday | Class resumes |
| Mar 19, 2019 | |
| | 60% of Term |

| | |
|--------------------------|---|
| Tuesday | |
| Mar 19, 2019 | Mid-semester grades due by 11:59 p.m. |
| Tuesday | |
| Mar 27, 2019 | Founders Day/Honors Convocation |
| Wednesday | |
| Mar 27, 2019 | Last day to apply for spring graduation (ceremony participation) |
| Wednesday | |
| Mar 28 - Apr 30, 2019 | Apply for degree conferral only for spring graduation (no ceremony participation or name listed in program) |
| Thursday through Tuesday | |
| Mar 29, 2019 | Last day for withdrawal from course(s) with record ("W") |
| Friday | |
| Apr 08 - Apr 12, 2019 | Priority registration for continuing students for summer and fall semesters |
| Monday through Friday | Priority Registration Schedule |
| Apr 15 - May 24, 2019 | Pre-registration for all students for the summer and fall semester |
| Monday through Friday | |
| Apr 19, 2019 | Good Friday (Student Holiday) |
| Friday | |
| Apr 29 - Apr 30, 2019 | Course Review Days (Classes must convene and instructors will prepare students for final exams) |
| Monday through Tuesday | |
| Apr 30, 2019 | Last day to withdraw from the university with record |
| Tuesday | |
| Apr 30, 2019 | Last day to apply for degree conferral only for spring graduation (no ceremony participation or name listed in program) |
| Tuesday | |
| Apr 30, 2019 | Last day to submit application for Tuition Rebate for spring graduation undergraduate |

Tuesday

candidates

Apr 30, 2019

Last Class Day

Tuesday

May 01 - May 07, 2019

Final Examinations

Wednesday through Tuesday

May 09, 2019

Final grades due for graduation candidates by Noon

Thursday

May 11, 2019

Spring Commencement

Saturday

May 14, 2019

Final grades due for all other students by 11.59 p.m.

Tuesday