



**BIOL 1073 P01 General Microbiology  
Spring 2019**

**Instructor:** Paul B. Drummond, Ph.D.  
**Section # and CRN:** Section P01/ 26534 Section P61/ 26579  
**Office Location:** E.E. O'Banion Science Building room 430  
**Office Phone:** 936-261-3175  
**Email Address:** pbdrummond@pvamu.edu  
**Office Hours:** Saturday: 10:00 am – 12:00 pm room 430  
**Mode of Instruction:** Face to Face

**Course Location:** Lecture room 104 / Lab room 308  
**Class Days & Times:** **Monday:** Lecture 7:00 - 8:50 p.m. **Wednesday:** Lab 7:00 - 8:50 p.m.  
**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:** None

**Required Texts:** Lecture textbook: Bauman, Robert W. 2014. Microbiology. With Diseases by Body System 4<sup>th</sup> Edition. Pearson Education, Inc., publishing as Benjamin Cummings, San Francisco. ISBN-13: 978-0-321-918550 or 10-321-918550X  
Laboratory Manual: Pre-Nursing Microbiology laboratory manual. ISBN 9781524954321

**Recommended Texts:** Blue / black pens, #2 lead pencils, notebook paper, pocket folder with brads, dividers with tabs, calculator, access to computer / printer, color pencils – red, blue, green, purple.

**Student Learning Outcomes:**

	Upon successful completion of this course, students will be able to:	Program Learning Outcome # Alignment	Core Curriculum Outcome Alignment
1	Demonstrates knowledge of the basic principles and concepts of life at the microscopic level as it pertains to microbes.	Critical Thinking	Critical Thinking
2	Comprehends the theoretical concepts in microbiology so that they may use this as a basis for future studies, whether it is in the area of Nursing or other allied health fields.	Critical Thinking	Critical Thinking
3	Analyze the inter-relationships among the microorganisms and between the microorganisms higher living forms.	Critical Thinking	Critical Thinking
4	Demonstrate the proper techniques and procedures of handling microscopic living organisms, many of which are pathogenic.	Discipline Specific Knowledge	Communication

## 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 visit Taskstream via the link in eCourse.

**Course Evaluation Methods:** The University Academic Catalog grading policy is used. All exams are weighted equally. At least four exams will be given. Exams will be announced at least one week in prior to the administration of the exam. All exams will be cumulative in terms of the information covered. The final exam will be administered according to the University’s exam schedule. This schedule is in your registration booklet. Unannounced quizzes may be given to evaluate how well students are learning the covered information.

### Grading Matrix:

Assignment	Points per task	Total points
4 Lecture exams	100 points each	400 points
16 Lab reports	5 points each	80 points
11 Weekly Lab quizzes	10 points each	100 points
Comprehensive Lab Final	15 points	20 points
Comprehensive Final Exam	100 points	100 points
Bonus points	50 points	50 points
<b>Total points</b>		<b>750 points</b>

Your final grade for the class is calculated by:  $\frac{\text{your total points}}{750} \times 100 = \underline{\hspace{2cm}} \%$ .

### Grading Scale is as follows:

- A = 100 - 90
- B = 89 - 80
- C = 79 - 70
- D = 69 - 60
- F = below 60

**Exam Policy:** Students are strongly advised to take all exams at the scheduled time. Plan and schedule your activities so that you can be present to take all exams at the scheduled time. Students with non-valid or unofficial excuses for missing an exam will earn a grade of zero for the missed exam. Students may request a make-up exam with a valid or official excuse. The instructor will schedule the time and place of the make-up exam which will not interrupt the teaching of the class or delay the complete covering of the course topics. Students missing a make-up exam will not be provided a second opportunity to take a make-up for the original exam missed.

**If you failed the first test, you will be required to attend tutoring each week until your grade improves.**

### Class Attendance:

The University Attendance Policy requires students to be present for each scheduled class. Students are required to demonstrate their knowledge of each concept of modern biology covered by the course textbook and the instructor. Students with or without official excuses for missing class will be tested and evaluated the same as students who were present for class. However, students attending class have the advantage of being taught knowledgeable information which they are expected to know. Excessive absenteeism will result in the student’s grade being reduced.

**Conduct Not Allowed:** Smoking is not allowed in the New Science Building. Please do not bring food to the classroom. On exams, honesty is required at all times. Cheating on exams and quizzes is not allowed or acceptable. Failing grades (zero) are assigned to students that cheat.

Additional Information: Be aware of current events. Read the newspaper, look at CNN and look at local and national news.

**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.

**ADA Statement:** Students with disabilities who believe they may need adjustment in this class are encouraged to contact the Office of Disabilities Services at (936) 261-3535 as soon as possible. Once you receive a letter of adjustment from the office, please make an appointment with me to discuss appropriate adjustments for this class.

**Course Outline:**

**Tentative Examination Schedule (Dependent on the pace that chapters are covered)**

Class Day	Chapter Title	Pages
January 14	CH 1. Introduction, A Brief History of Microbiology Class Intro Quiz	2-25
January 28	CH 1. Introduction, A Brief History of Microbiology CH 3. Cell Structure and Function	56-95
February 4	CH 3. Cell Structure and Function CH 13. Characterizing and Classifying Viruses, Viroids & Prions	383 - 409
February 11	CH 13. Characterizing and Classifying Viruses, Viroids & Prions CH 6. Microbial Nutrition and Growth	166 - 195
February 18	Exam 1 Chapters 1, 3 and 13 CH 6. Microbial Nutrition and Growth	
February 25	CH 14. Infection, Infectious Diseases and Epidemiology	410 - 444
March 4	CH 14. Infection, Infectious Diseases and Epidemiology	
March 6	Exam 2 Chapters 6 and 14 (Midterm) CH 19. Microbial Diseases of the Skin and Wounds	555 - 596
March 18	CH 19. Microbial Diseases of the Skin and Wounds CH 21. Microbial cardiovascular and Systemic Diseases	631 -666
March 25	CH 21. Microbial cardiovascular and Systemic Diseases	
April 1	Exam 3 Chapters 19 and 21 CH 22. Microbial Diseases of the Respiratory System	667 - 704
April 8	CH 22. Microbial Diseases of the Respiratory System CH 24. Microbial Diseases of the of the Urinary and Reproductive Systems	739 - 766
April 15	CH 24. Microbial Diseases of the of the Urinary and Reproductive Systems	
April 22	Exam 4 Chapters 22 and 24	
April 29	Review Day	
	Comprehensive Final Exam TBA (Common)	

**Holiday:**

- Dr. Martin Luther King Day – January, (Monday)
- Spring Break - March 11 - 16, (Monday – Saturday)
- Easter Break - April 19 - 20, (Friday – Saturday)

Course number: 26534  
Section P61: 26579

Day and times  
W - Laboratory: 7:00 – 8:50 p.m.,

Location  
Room 308 NSCI

\*\*\* Read across table from left to right starting with the Class Day.

<b>Class Day</b>	<b>Quiz</b>	<b>Lab Report(s) to hand in</b>	<b>Exercise(s) to perform</b>	<b>Note</b>
<b>01/16</b>	none	none	<b>Lab safety</b>	<b>None</b>
<b>01/23</b>	Lab safety		<b>Basic Techniques</b> 1. Introduction to Microscope 2. Protists	<b>Read from lecture book Chapter 4 &amp; 12: pp 94 &amp; 344</b>
<b>1/30</b>	Ex's 1 and 16	Lab Report 1 & 16 Drawings	<b>Motility and Classification</b> 3. Flagella and Motility 4. Taxonomy	<b>Read from lecture book Chapter 11: pp 315-343</b>
<b>02/06</b>	Ex's 13 and 9	Lab Report 3 & 4	<b>Morphology</b> 5. Bacteria Colony Morphology	<b>Read from lecture book Chapter 6: pp 163-192</b>
<b>02/13</b>	Ex 1	Lab Report 5	<b>Aseptic Technique</b> 6. Aseptic Technique	<b>None</b>
<b>02/20</b>	Ex 2	Lab Report 6	<b>Smear preparation and Staining Techniques</b> 10. Smear and Simple Stain 11. Gram Stain	<b>Read from lecture book Chapter 6: pp 163 - 192</b>
<b>02/27</b>	Ex's 10 & 11	Lab Report 7 & 8	<b>Food Microbiology</b> a. Meat b. Dried Fruit	<b>Read from lecture book Chapter 26: pp 756 and 782</b>
<b>03/06</b>	Ex 1	Lab Report 10	<b>Examination of Water Transmission of Disease</b>	<b>Read from lecture book Chapter 14: pp 405</b>
<b>03/20</b>	Ex's 27 & 1	Lab Report 11 and 12	<b>Dental Microbiology</b>	<b>None</b>
<b>03/27</b>	Ex 1	Lab Report 13	<b>Hemolytic Activity of Microorganisms</b>	<b>Read from lecture book Chapter 6</b>
<b>04/03</b>	Ex 1	Lab Report 14	<b>Control of Microbial Growth</b> 15. Antiseptic and Disinfectants Filters Paper Disk Method  16. Antibiotic Susceptibility Resistance (Kirby-Bauer Method)	<b>Read from lecture book Chapter 9 &amp; 10: pp 258 &amp; 283</b>
<b>04/10</b>	Ex's 15 & 19	Lab Report 15 & 16	<b>Lab Final Review</b>	
<b>04/17</b>	<b>LAB FINAL</b>			

## **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.

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**TECHNICAL CONSIDERATIONS**

**Minimum Recommended Hardware and Software:**

- Intel PC or Laptop with Windows 7; Mac with OS X; Smartphone or iPad/Tablet with Wi-Fi
- High speed Internet access
- 8 GB Memory
- Hard drive with 320 GB storage space
- 15" monitor, 800x600, color or 16 bit
- Sound card w/speakers
- Microphone and recording software
- Keyboard & mouse
- Most current version of Google Chrome, Safari, Internet Explorer or Firefox

**Note:** Be sure to enable Java & pop-ups

**Participants should have a basic proficiency of the following computer skills:**

- Sending and receiving email
- A working knowledge of the Internet
- Proficiency in Microsoft Word (or a program convertible to Word)
- Proficiency in the Acrobat PDF Reader
- Basic knowledge of Windows or Mac O.S.

**Netiquette (online etiquette):**

Students are expected to participate in all discussions and virtual classroom chats as directed. Students are to be respectful and courteous to others on discussions boards. Foul or abusive language will not be tolerated.

**Technical Support:**

Students should go to <https://mypassword.pvamu.edu/> if they have password issues. The page will provide instructions for resetting passwords and contact information if login issues persist. For other technical questions regarding eCourses, call the Office of Distance Learning at 936-261-3283

**Communication Expectations and Standards:**

Emails or discussion postings will receive a response from the instructor, usually in less than 48 hours. Urgent emails should be marked as such. Check regularly for responses.

**Discussion Requirement:**

Online courses often require minimal to no face-to-face meetings. However, conversations about the readings, lectures, materials, and other aspects of the course can take place in a seminar fashion. This will be accomplished by the use of the discussion board. The exact use of discussion will be determined by the instructor.

**It is strongly suggested** that students type their discussion postings in a word processing application and save it to their PC or a removable drive before posting to the discussion board. This is important for two reasons: 1) If for some reason your discussion responses are lost in your online course, you will have another copy; 2) Grammatical errors can be greatly minimized by the use of the spell-and-grammar check functions in word processing applications. Once the post(s) have been typed and corrected in the word processing application, it should be copied and pasted to the discussion board.

**Calendar Spring 2019**

Date	Description
Jan 10 - Jan 11 Thursday through Friday	Regular Registration Period
Jan 14 Monday	First Class Day
Jan 14 Monday	Tuition payment deadline is 5:00 p.m. for all students who registered for the spring semester
Jan 14 - Jan 16 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 Monday through Friday	Add/Drop for all students for the spring semester. Tuition payment for all students who add/drop for spring must pay by 5:00 p.m. on Wednesday, February 6.
Jan 21 Monday	Dr. Martin Luther King Day (University Closed)
Jan 22 Tuesday	Class resumes
Jan 30 Wednesday	12th Class Day (Census Date)
Jan 30 Wednesday	Last day to drop/withdraw from course(s) without academic record. A financial record will still exist.
Jan 31 - Mar 29 Thursday through Friday	Withdrawal from course(s) with record ("W")
Feb 06 Wednesday	Tuition payment deadline is 5:00 p.m. for all students who late registered and add/drop for spring semester
Feb 11 Monday	20th class day
Feb 12 - Apr 30 Tuesday through Tuesday	Submit application for Tuition Rebate for spring graduation undergraduate candidates
Mar 07 - Mar 09 Thursday through Saturday	Mid-semester examination
Mar 11 - Mar 16 Monday through Saturday	Spring Break
Mar 15 Friday	Spring Break (University Closed)

Mar 18 Monday	Class resumes
Mar 19 Tuesday	60% of Term
Mar 19 Tuesday	Mid-semester grades due by 11:59 p.m.
Mar 27 Wednesday	Founders Day/Honors Convocation
Mar 27 Wednesday	Last day to apply for spring graduation (ceremony participation)
Mar 28 - Apr 30 Thursday through Tuesday	Apply for degree conferral only for spring graduation (no ceremony participation or name listed in program)
Mar 29 Friday	Last day for withdrawal from course(s) with record ("W")
Apr 08 - Apr 12 Monday through Friday	Priority registration for continuing students for summer and fall semesters <a href="#">Priority Registration Schedule</a>
Apr 15 - May 24 Monday through Friday	Pre-registration for all students for the summer and fall semester
Apr 19 Friday	Good Friday (Student Holiday)
Apr 29 - Apr 30 Monday through Tuesday	Course Review Days (Classes must convene, and instructors will prepare students for final exams)
Apr 30 Tuesday	Last day to withdraw from the university with record
Apr 30 Tuesday	Last day to apply for degree conferral only for spring graduation (no ceremony participation or name listed in program)
Apr 30 Tuesday	Last day to submit application for Tuition Rebate for spring graduation undergraduate candidates
Apr 30 Tuesday	Last Class Day
May 01 - May 07 Wednesday through Tuesday	Final Examinations
May 09 Thursday	Final grades due for graduation candidates by Noon
May 11 Saturday	Spring Commencement
May 14 Tuesday	Final grades due for all other students by 11.59 p.m.