

**BIOL 1502 General Biology
Spring 2024**

Instructor: Charcacia T. Sanders
Section # and CRN: Section#: P01 and CRN: 23404
Office Location: Physical Location: Elmer E. O'Banion Science Building, Rm 430R
 Virtual Location: Microsoft Teams
Office Phone: 936-261-3162
Email Address: ctsanders@pvamu.edu
Office Hours: Wednesday 2:00 PM – 5:00 PM
 Friday 11:00 AM – 2:00 PM

Appointment Preferred: [Book time with Sanders, Charcacia: Dr. Caci's Office Hours](#)

Mode of Instruction: [Face-to-Face]
Course Location: Lecture: Elmer E. O'Banion Science Building, Room 103
 Lab: E. O'Banion Science Building, Room 315

Class Days & Times: Lecture: TR 1:00 PM – 2:20 PM
 Lab: P65 - MW 9:00 PM – 10:50 PM
 P66 – 11:00 PM – 12:50 PM

Catalog Description: Structure and function of living organism systems. Ecological relationships, natural selection, evolution, and human ecology.

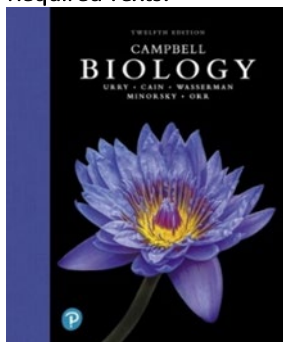
Course Description: This course focuses on the continuity of life, including reproduction, genetics, gene expression, cell communication, biotechnology, and evolution. Students will explore the core concepts of evolution; information flow, storage, and exchange; and systems biology emphasizing the process of science, interdisciplinary approach, and relevance of biology to society.

Part II of a two-course sequence. Assignments require college-level reading fluency, coherent written communication, and basic mathematical skills.

Prerequisites: Undergraduate level BIOL 1015 or 1501 Minimum Grade

Co-requisites: BIOL 1502-P06 is a combined lecture-laboratory course. Students must be enrolled in both the lecture section and a laboratory section: BIOL 1502-P65 or BIOL 1502-P66

Required Texts:



Campbell Biology, 12th edition, by Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, and Rebecca Orr

Published by Pearson (May 9th 2020) - Copyright © 2021
 Format: Modified Mastering Biology with Pearson eText -- Instant Access -- for Campbell Biology
 ISBN-13: 9780135856147

Student Learning Outcomes:

Upon successful completion of this course, students will be able to:		Program Learning Outcome # Alignment	Core Curriculum Outcome Alignment
1	Explain what happens at the cell cycle checkpoints and how cells can either be stimulated to proceed through the cycle or be impeded from doing so, providing a general description of how signal molecules are instrumental in these processes.	1, 2, and 4	Critical Thinking Problem Solving Discipline-Specific Knowledge
2	Describe the entire meiotic process and describe in detail the motion of chromosomes throughout each successive phase relating these movements to changes in ploidy.	1, 2, and 4	Critical Thinking Problem Solving Discipline-Specific Knowledge
3	Explain the principles of Mendelian and Non-Mendelian inheritance of traits applying this knowledge to scenarios to distinguish between the different modes of inheritance.	1, 2, and 4	Critical Thinking Problem Solving Discipline-Specific Knowledge
4	Examine the chromosome theory of inheritance relating the structure and behavior of chromosomes during meiosis to inheritance patterns.	1, 2, and 4	Critical Thinking Problem Solving Empirical and Quantitative Skills Discipline-Specific Knowledge
5	Describe the discoveries that led to today's model of DNA structure and replication and explain how the development of the DNA model exhibits the nature of science.	1, 2, and 4	Critical Thinking Problem Solving Empirical and Quantitative Skills Discipline-Specific Knowledge
6	Describe the processes on DNA replication and repair and the mechanisms used to ensure the integrity of the genetic material.	1, 4	Critical Thinking Discipline-Specific Knowledge
7	Describe the central dogma of molecular biology explaining how DNA, RNA, and proteins are related through the flow of life's info.	1, 4	Critical Thinking Discipline-Specific Knowledge
8	Describe mechanisms regulating various stages of gene expression in prokaryotes and eukaryotes and their role in cell differentiation.	1, 4	Critical Thinking Discipline-Specific Knowledge
9	Compare the types of cells signaling that exist in multicellular organisms.	1, 4	Critical Thinking Discipline-Specific Knowledge
10	Using diagrams, outline the sequence of events in signal transduction pathways involving a phosphorylation cascade and the production of second messengers.	1, 2, and 4	Critical Thinking Problem Solving Discipline-Specific Knowledge
11	Relate the basic process of signal transduction to apoptosis emphasizing apoptosis requires the integration of multiple signaling pathways.	1, 4	Critical Thinking Discipline-Specific Knowledge
12	Model safe behavioral practices when in the laboratory.	1, 4	Problem Solving Discipline-Specific Knowledge
13	Explain that scientific knowledge is cumulative and subject to changes in interpretation based on new evidence.	1, 4	Critical Thinking Empirical and

14	Explain how science and technology impact society, as well as how scientists are influenced by the political, social, economic, and cultural influences of the time.	1, 4	Quantitative Skills Discipline-Specific Knowledge Critical Thinking Discipline-Specific Knowledge Critical Thinking
15	Recognize fundamental concepts, themes, hypotheses, theories, and laws within biology, including the historical development of scientific knowledge, and how knowledge is organized, stored, and shared within various biological disciplines.	1, 2, and 4	Problem Solving Empirical and Quantitative Skills Discipline-Specific Knowledge Critical Thinking
16	Describe and practice the different scientific methods of investigation, experimentation, hypothesis formulation, and hypothesis testing to address questions.	1, 4	Empirical and Quantitative Skills Discipline-Specific Knowledge Critical Thinking
17	Analyze and interpret the results of scientific investigations, including use of quantitative and statistical methods	1, 4	Discipline-Specific Knowledge Critical Thinking
18	Communicate scientific findings and arguments effectively both orally and in writing.	1, 2	Communication Critical Thinking
19	Locate, determine the reliability of, critically evaluate and summarize scientific literature and other sources of biological information	5, 6	Ethical Decision Making Social Responsibility

This syllabus is subject to change at the discretion of the instructor. Students will be notified of such changes ahead of time via eCourses.

Major Course Requirements			
Method of Determining Final Course Grade			
	Course Grade Requirement	Value	Total
LECTURE	Lecture Exams	5 Exams	70%
	Mastering Biology Dynamic Study Modules	10 Modules	15%
	Mastering Biology Chapter Homework	10 Chapters	15%
			Total 100%
LAB	Virtual Lab Activities	11 Activities	10%
	Lab Performance Assessments	10 Assessments	40%
	Course-based Research Experience Project	8 Benchmarks	50%
			Lab Total: 100%
Course Total:			
FINAL GRADE	50% Lecture Grade + 50% Lab Grade (Includes a CURE)		
	Grading Criteria and Conversion:		
	A = 90% to 100%		
	B = 80% to 89%		
	C = 70% to 79%		
	D = 60% to 69%		
	F = 0% to 59%		

Detailed Description of Major Assignments:

GRADE REQUIREMENT	DESCRIPTION	DUE DATES
EXAMS	Student's knowledge of chapter content, scientific practices, and concepts gained during lab will be assessed using a combination of multiple-choice and open-ended response questions	Exam I: Chapters 12-13 (Jan 31 st) Exam II: Chapters 14-15 (Feb 19) Exam III: Chapters 16-17 (Mar 6-7) Exam IV: Chapters 11, 18 (Apr 8) Exam V: Chapters 21 – 23 (TBA)
MASTERING BIOLOGY ASSIGNMENTS	The Mastering Biology Assignments are adaptive learning modules designed to help students identify and distinguish the mastered material from the information that has yet to be learned to focus studies effectively.	Dynamic Study Modules: Mondays @ 11:59 pm Chapter Homework: Thursdays @ 11:59 pm
LAB ACTIVITIES	Students will engage in lab modules, record lab findings, and answer questions based on lab content and lab outcomes.	Fridays @ 11:59 PM
LAB PERFORMANCE ASSESSMENT	Students will various tasks to assess learned laboratory skills	TBD
COURSE-BASED RESEARCH EXPERIENCE PROJECT	Students will collaborate in small groups to conduct in-depth research on a specific topic in embryology, culminating in a comprehensive report and presentation, encouraging teamwork, research skills, and a deeper understanding of embryological processes.	TBD

Taskstream

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

- I. **DIVERSITY STATEMENT:** The Department of Biology values the perspectives of individuals from all backgrounds, reflecting our students' diversity. We broadly define diversity as race, gender identity, national origin, ethnicity, religion, social class, age, sexual orientation, political background, and physical and learning ability. We strive to make this classroom and this department an inclusive space for all students.
- II. **COMMITMENT TO LEARNING:** You must be able to balance your time dedicated to this class along with your other responsibilities. Science courses often demand a much more significant amount of your time than other courses. You must create a schedule where you have reserved a reasonable amount of time daily to study and complete online assignments for this course. My purpose in this class is to act as your guide through this subject material. I must make sure that your grade in this class indicates your mastery of the subject material required by this college. This class is five credit hours, and you will need to commit to the time it will take to be successful in the course. A 5-credit hour course corresponds to a minimum of 15 hours of student engagement per week for a 16-week fall course. This time includes attending lab, readings and lectures, study and research, and assignments. Procrastination and cramming will lead to negative consequences. At worst, this will lead to failing the class. At best, you pass but fail to learn the material truly.
- III. **MINIMUM TECHNOLOGY REQUIREMENTS:** Students are required to maintain to have access to the following:
 - A. A computer (desktop/laptop) or mobile device (tablet) that is less than five years old.
 - B. Speakers/headphones/earbuds for listening to audio or videos presented in courses. Webcam for interacting in course activities that require video feedback from students (such as VoiceThread) or other third-party tools.
 - C. An Internet Browser, such as Mozilla Firefox and Google Chrome preferred.
 - D. Adobe Acrobat Reader (latest version) - Download.
 - E. A stable high-speed Internet connection
- IV. **PEARSON MASTERING BIOLOGY:** You will be required to enroll in the online learning platform Mastering Biology. You will complete online assignments, which will constitute a percentage of your grade in this course. You will be able to access Mastering Biology and register using the link located in Canvas. If you are experiencing any technical issues with Mastering Biology, please contact Pearson using this [link](#).
- V. **CLASS FORMAT:** The class instructor facilitates a synchronous, face-to-face course. This class requires student participation and demonstrations. The instructor will ask students questions, present problems to solve, and use audiovisuals to demonstrate concepts. The expectation is students are prepared to actively participate in class to demonstrate their knowledge of biological concepts.
- VI. **MATERIALS:** Students are required to maintain a folder with all class notes, handouts, and reports. You will also need access to a reliable internet connection and a computer. Students are required to maintain a lab notebook with all complete record of procedures (the actions you take), the reagents you use, the observations you make (these are the data), and the relevant thought processes that would enable another scientist to reproduce your observations.

Students are also required to wear scrub tops & pants in the lab. Students must be completely covered and closed-toed shoes are to be always worn while in the lab. There are NO exceptions. Students who are not in the appropriate attire will not be allowed in the lab.
- VII. **USING PROCTORIO FOR ONLINE ASSESSMENTS:** Exams will be given using Proctorio during the regular scheduled class. All students must be in class to take exams. Proctorio can only be used on a computer and in the Chrome Browser, and you will NOT be able to complete any Proctorio assignment on your smartphone or tablet. The instructor will provide the students with a laptop.
- VIII. **SUBMITTING ASSIGNMENTS:** All assignments must be submitted in class or online via Canvas. The instructor will not

accept any assignments via email unless prior arrangements are made.

- IX. **MAKE-UP ASSESSMENTS:** You are required to complete assessments as scheduled with the rest of your class. No make-up will be given automatically. Suppose you cannot complete an assessment during the scheduled time. In that case, you must contact the instructor immediately to discuss your options email within 24 hours of missing the assessments. The make-up must be taken within 72 hours after the assessments have been administered). Make-ups will be given in a free- response format during a designated day and time at the instructor's discretion.

Do not assume that you are eligible to take a make-up. It is up to the instructor to decide if a student is eligible for a make-up pending the submission of the appropriate documentation.

Credit for make-up assignment will only be given to students with verifiable absences supported by acceptable documentation.

Examples of Acceptable Documentation:

- A. **Medical:** A doctor's note or medical certificate detailing the reason for your absence and the dates you were under their care.
- B. **Bereavement:** A copy of the obituary, funeral program, or death certificate, along with your relationship to the deceased.
- C. **Legal Obligations:** Documentation or proof of a court appearance or other legal obligations.
- D. **University Sanctioned Activities:** A letter from the organizing body or department verifying your participation in the activity that conflicted with the exam time.
- E. **Religious Observances:** A letter from your spiritual leader or organization outlining the nature and timing of the observance.
- F. **Military:** Documentation generally includes official military orders, letter from a commanding officer, training schedules, or deployment notices.
- G. **Significant Emergencies:** Documentation relating to emergencies like fire, flood, or other natural disasters affecting your ability to attend the exam.

If a student does not appear at the prearranged time or meet the prescribed deadline for makeup work, they forfeit their rights for the makeup of that work and will receive a grade of zero.

- X. **LATE WORK:** Late work is not accepted. Any assignment not submitted by the due date will receive a 0 grade unless the instructor approves prior arrangements.
- XI. **CLASS ATTENDANCE:** Success in this course is dependent on your active participation and engagement throughout the course. As such, students must complete all assignments by the due date and actively participate in class discussions. Your attendance will be taken in the form of your participation during class meetings. Attendance in this class is crucial to your success in this class and the success of the entire class. This course is designed to be interactive and student-centered.

PVAMU Absence Verification Process:

All non-athletic absences (e.g., Medical, Death/Funeral, Court/Legal-related, etc.) for which a student seeks to obtain a valid excuse must be submitted to the Dean of Students/Office of Student Conduct, with supporting documentation, for review and verification. Please use the [Online Reporting FormsLinks to an external site](#) to access/complete/submit the Request for a University Excused Absence form for an excuse. Upon receipt, a staff member will verify the documentation and provide an official university excuse, if applicable. The student is responsible for providing the official university excuse issued by the Office for Student Conduct to the professor(s). Questions should be directed to the Dean of Students via email: deanofstudents@pvamu.edu or phone: (936) 261-3550 or Office for Student Conduct via email: studentconduct@pvamu.edu or phone: (936) 261-3524.

- XII. **CLASS CONDUCT:** It is the instructor's goal to maintain the integrity of the course and an environment conducive to learning. Students are expected to follow the [Prairie View A&M University Code of Student Conduct](#) and adhere to the course procedure and policies.

- A. Academic Dishonesty: No cheating on exams, quizzes, reports, or any graded activity. Cheating will result in a grade of zero.
 - B. Intellectual honesty is vital to an academic community and for my fair evaluation of your work. All work submitted in this course must be your own, completed in accordance with the University's academic regulations. You may not engage in unauthorized collaboration or make use of ChatGPT or other AI composition software. Using these tools without my permission puts your academic integrity at risk.
- XIII. **ASSIGNMENT FOLLOW-UP:** All automatically graded assignments will be available for review after the work is completed. Assignments with open-ended responses will receive a grade and instructor feedback within a week after the due date.

To review assignments that are not available to view online, you must set up an appointment during the instructor's office hours. Students will have seven days after the assignment grade has been posted to discuss their performance on the assignment with the instructor. After the 7-day follow-up period, students will forfeit the opportunity to discuss the work with the instructor.

- XIV. **COMMUNICATION:** My primary means of communication with you will be through the email address listed in this syllabus and email messaging via Canvas. Do not expect instantaneous replies and responses. You can expect a response to communications within 48 hours Monday – Friday from 9:00 am – 5:00 pm.

I expect you to check your PVAMU student email account, Canvas Inbox, and Canvas Announcements daily and use these systems as your primary mode of communication with me. Failure to keep up with email communications from me will solely be your responsibility as the student. Only email me from your PVAMU student email account. In the email's subject line, please write the course code, section number, and term in the following format: **BIOL 4401-P01 Spring 2024**. Any email that does not have the proper subject line will possibly be overlooked and receive a delayed response. At the end of each email, include your first and last name and a phone number.

If a student's parent or guardian requests a meeting with the instructor, the student, and a biology faculty member must be present.

STUDENT SUPPORT AND SUCCESS

John B. Coleman Library

The John B. Coleman Library's mission is to enhance the scholarly pursuit of knowledge, to foster intellectual curiosity, and to promote life-long learning and research through our innovative services, resources, and cultural programs, which support the Prairie View A&M University's global mission of teaching, service, and research. It maintains library collections and access both on campus, online, and through local agreements to further the educational goals of students and faculty. [Library Website](#) Phone: 936-261-1500

Academic Advising Services

Academic Advising Services offers students various services that contribute to student success and lead toward graduation. We assist students with understanding university policies and procedures that affect academic progress. We support the early alert program to help students connect to success early in the semester. We help refer students to the appropriate academic support services when they are unsure of the best resource for their needs. Faculty advisors support some students in their respective colleges. Your faculty advisor can be identified in PantherTracks. Advisors within Academic Advising Services are available to all students. We are located across campus. Find your advisor's location by academic major on the [advising website](#). Phone: 936-261-5911

The University Tutoring Center

The University Tutoring Center (UTC) offers free tutoring and academic support to all registered PVAMU students. The mission of the UTC is to help provide a solid academic foundation that enables students to become confident, capable, independent learners. Competent and caring staff and peer tutors guide students in identifying, acquiring, and enhancing the knowledge, skills, and attitudes needed to reach their desired goals. Tutoring and academic support are offered face-to-face in the UTC and virtually in online sessions. Other support services available for students include Supplemental Instruction, Study Breaks, Academic Success Workshops, and Algebra Study Jam. Location: J. B. Coleman Library, Rm. 307; Phone: 936-261-1561; Email: pvtutoring@pvamu.edu; [University Tutoring Website](#)

Writing Center

The Writing Center provides well-trained peer tutors to assist students with writing assignments at any stage of the writing process. Tutors help students with various writing tasks from understanding assignments, brainstorming, drafting, revising, editing, researching, and integrating sources. Students have free access to Grammarly online writing assistance. Grammarly is an automated proofreading and plagiarism detection tool. Students must register for Grammarly by using their student email address. In addition, students have access to face-to-face and virtual tutoring services either asynchronously via email or synchronously via Zoom. Location: J. B. Coleman Library, Rm. 209; Phone: 936-261-3724; [Writing Center Website](#), [Grammarly Registration](#)

Panther Navigate

Panther Navigate is a proactive system of communication and collaboration between faculty, academic advisors, and students that is designed to support student success by promptly identifying issues and allowing for intervention. Panther Navigate helps students by providing a central location to schedule advising appointments, view campus resources, and request assistance. Students who recognize that they have a problem that negatively affects their academic performance or ability to continue school may self-refer an academic early alert. To do so, students will log in to Canvas and click on Student Alerts on the left sidebar within a course. Students also have the option to download the Navigate Student app. Phone: 936-261-5902; [Panther Navigate Website](#)

Student Counseling Services

The Student Counseling Services offers a range of services and programs to assist students in maximizing their potential for success: short-term individual, couples, and group counseling, as well as crisis intervention, outreach, consultation, and referral services. The staff is licensed by the State of Texas and assists students who are dealing with academic skills concerns, situational crises, adjustment problems, and emotional difficulties. Information shared with the staff is treated confidentially and in accordance with Texas State Law. Location: Hobart Taylor, 2nd floor; Phone: 936-261-3564; [Health & Counseling Center Website](#)

Office of Testing Services

The Office of Testing Services serves to facilitate and protect the administration of educational and professional exams to aid students, faculty, staff, and the community in their academic and career goals. We provide proctoring services for individuals who need to take exams for distance or correspondence courses for another institution, exams for independent study courses, or make-up exams. In order for a proctored exam to be administered by our office, the instructor of the course must first submit the online PVAMU Testing Services – Test Proctoring Form (this form can only be completed by the instructor) to the Office of Testing Services 72 hours prior to the first exam being administered. Once the Test Proctoring Form has been submitted, the instructor will inform their testers so they can then register for an appointment with our office on one of the selected proctored exam test dates within the testing window for the exam and pay the applicable fees. To access the OTS – Test Proctoring Form, to schedule a proctored exam appointment, or to find more information about our proctoring services, please visit the [OTS – Proctoring Service website](#). Location: Wilhelmina Delco, 3rd Floor, Rm. 305; Phone: 936-261-3627; Email: aetesting@pvamu.edu; [Testing Website](#)

Office of Diagnostic Testing and Disability Services

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, contact the Office of Disability Services. As a federally-mandated educational support unit, the Office of Disability Services serves as the repository for confidential disability files for faculty, staff, and students. For persons with a disability, the Office develops individualized ADA letters of request for accommodations. Other services include learning style inventories, awareness workshops, accessibility pathways, webinars, computer laboratory with adapted hard and software, adapted furniture, proctoring non-standardized test administrations, ASL interpreters, ALDs, digital recorders, Livescribe, and a comprehensive referral network across campus and the broader community. Location: Hobart Taylor, Rm. 1D128; Phone: 936-261-3583; [Disability Services Website](#)

Center for Instructional Innovation and Technology Services (CIITS)

Distance Learning, also referred to as Distance Education, is the employment of alternative instructional delivery methods to extend programs and services to persons unable to attend classes in the traditional manner. CIITS supports student learning through online, hybrid, web-assist, and 2-way video course delivery. For more details and contact information, visit [CIITS Student Website](#). Phone: 936-261-3283 or email: ciits@pvamu.edu.

Veteran Affairs

Veteran Services works with student veterans, current military, and military dependents to support their transition to the college

environment and continued persistence to graduation. The Office coordinates and certifies benefits for both the G.I. Bill and the Texas Hazlewood Act. Location: Evans Hall, Rm. 102; Phone: 936-261-3563; [Veteran Affairs Website](#)

Office for Student Engagement

The Office for Student Engagement delivers comprehensive programs and services designed to meet the co-curricular needs of students. The Office implements inclusive and accessible programs and services that enhance student development through exposure to and participation in diverse and relevant social, cultural, intellectual, recreational, community service, leadership development, and campus governance. Location: Memorial Student Center, Rm. 221; Phone: 936-261-1340; [Student Engagement Website](#)

Center for Careers & Professional Development

This center supports students through professional development, career readiness, and placement and employment assistance. The center provides one-on-one career coaching, interview preparation, resume and letter writing, and career exploration workshops and seminars. Services are provided for students at the Northwest Houston Center and College of Nursing in the Medical Center twice a month or on a requested basis. Distance Learning students are encouraged to visit the center website for information regarding services provided. Location: Anderson Hall, 2nd floor; Phone: 936-261-3570; [Center for Careers & Professional Development Website](#)

UNIVERSITY RULES AND PROCEDURES

Academic Misconduct

Academic dishonesty is defined as any form of cheating or dishonesty that has the effect or intent of interfering with any academic exercise or fair evaluation of a student's performance. The college faculty can provide additional information, particularly related to a specific course, laboratory, or assignment.

You are expected to practice academic honesty in every aspect of this course and all other courses. Make sure you are familiar with the University Administrative Guidelines on Academic Integrity, which can be found on the [Academic Integrity webpage](#). Students who engage in academic misconduct are subject to university disciplinary procedures. As listed in the University Administrative Guidelines on Academic Integrity, the University Online Catalog, and the Student Code of Conduct, the following are examples of prohibited conduct. This list is not designed to be all-inclusive or exhaustive. In addition to academic sanctions, any student found to have committed academic misconduct that is also a violation of criminal law may also be subject to disciplinary review and action by the Office of Student Conduct (as outlined in the Student Code of Conduct).

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 learned, giving or receiving aid unauthorized by the instructor on assignments or examinations. Examples: unauthorized use of notes for a test; using a "cheat sheet" on a quiz or exam; any alteration made on a graded test or exam which is then resubmitted to the teacher;
2. **Plagiarism**: Careless or deliberate use of the work or the ideas of another; representation of another's work, words, ideas, or data as your own without permission or appropriate acknowledgment. Examples: copying another's paper or answers, failure to identify information or essays from the internet and submitting or representing it as your own; submitting an assignment which has been partially or wholly done by another and claiming it as yours; not properly acknowledging a source which has been summarized or paraphrased in your work; failure to acknowledge the use of another's words with quotation marks;
3. **Collusion**: When more than one student or person contributes to a piece of work that is submitted as the work of an individual;
4. **Conspiracy**: Agreeing with one or more persons to commit an act of academic/scholastic dishonesty; and
5. **Multiple Submission**: Submission of work from one course to satisfy a requirement in another course without explicit permission. Example: using a paper prepared and graded for credit in one course to fulfill a requirement and receive credit in a different course.

PVAMU's General Statement on the Use of Generative Artificial Intelligence Tools in the Classroom

Generative Artificial Intelligence (GAI), specifically foundational models that can create writing, computer code, and/or images using minimal human prompting, are increasingly becoming pervasive. Even though ChatGPT is one of the most well-known GAIs currently available, this statement includes any and all past, current, and future generations of GAI software. Prairie View A&M University expects that all work produced for a grade in any course, be it face-to-face or virtual, will be the sole product of a student's endeavors to meet those academic goals. However, should an instructor permit their students to use artificial intelligence as a resource or tool, students must not substitute the substance of their original work with the results of using such GAI tools. This clearly violates the University's Administrative Guidelines on Academic Integrity and its underlying academic values.

Nonacademic Misconduct

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 ability 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. The Office of Student Conduct will adjudicate such incidents under nonacademic procedures.

Sexual Misconduct

Sexual harassment of students and employees at Prairie View A&M University is unacceptable and will not be tolerated. Any member of the university community violating the university's sexual harassment policy will be subject to disciplinary action. In accordance with the Texas A&M University System guidelines, your instructor is obligated to report to the Office of Title IX Compliance (titleixteam@pvamu.edu) any instance of sexual misconduct involving a student, which includes sexual assault, stalking, dating violence, domestic violence, and sexual harassment, about which the instructor becomes aware during this course through writing, discussion, or personal disclosure. The faculty and staff of PVAMU actively strive to provide a learning, working, and living environment that promotes respect that is free from sexual misconduct, discrimination, and all forms of violence. If students, faculty, or staff would like assistance or have questions, they may contact the Title IX Coordinator, Dr. Zakiya Brown, at 936-261-2144 or titleixteam@pvamu.edu. More information can be found at [Title XI Website](#), including confidential resources available on campus.

Protections and Accommodations for Pregnant and Parenting Students

The U.S. Department of Education's Office for Civil Rights (OCR) enforces, among other statutes, Title IX of the Education Amendments of 1972. Title IX protects people from discrimination based on sex, sexual orientation, and gender identity in education programs or activities that receive federal financial assistance. This protection includes those who may be pregnant and parenting. Title IX states: "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance." Students seeking accommodations related to pregnancy or parenting should contact the Office of Title IX for information, resources, and support at titleixteam@pvamu.edu. Additional information and/or support may be provided by the Office of Disability Services or the Office of the Dean of Students.

Non-Discrimination Statement

Prairie View A&M University does not discriminate on the basis of race, color, sex, religion, national origin, age, disability, genetic information, veteran status, sexual orientation, or gender identity in its programs and activities. The University is committed to supporting students and complying with The Texas A&M University System non-discrimination policy. It seeks to establish an environment that is free of bias, discrimination, and harassment. If you experience an incident of discrimination or harassment, we encourage you to report it. If you would like to speak with someone who may be able to afford you privacy or confidentiality, there are individuals who can meet with you. The Director of Equal Opportunity & Diversity has been designated to handle inquiries regarding the non-discrimination policies and can be reached at Harrington Science Building, Suite 109, or by phone at 936-261-1744 or 1792.

Class Attendance Policy (See the University Online Catalog for Full Attendance Policy)

Prairie View A&M University requires regular class attendance. Attending all classes supports the full academic development of each learner, whether classes are taught with the instructor physically present or via distance learning technologies such as interactive video and/or the Internet. Excessive absenteeism, whether excused or unexcused, may result in a student's course grade being reduced or in the assignment of a grade of "F." Absences are accumulated beginning with the first day of class during regular semesters and summer terms. Each faculty member will include the University's attendance policy in each course syllabus.

Makeup Work for Legitimate Absences

Prairie View A&M University recognizes that there are a variety of legitimate circumstances in which students will miss coursework and that accommodations for makeup work will be made. If a student's absence is excused, the instructor must either provide the student an opportunity to make up any quiz, exam, or other work contributing to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. Students are encouraged to work with instructors to complete makeup work before known scheduled absences (University-sponsored events, administrative proceedings, etc.). Students are responsible for planning their schedules to avoid excessive conflicts with course requirements.

Absence Verification Process

All non-athletic absences (e.g., Medical, Death/Funeral, Court/Legal-related, etc.) for which a student seeks to obtain a valid excuse must be submitted to the Dean of Students/Office of Student Conduct, with supporting documentation, for review and verification. Please use the [Online Reporting Forms](#) to access/complete/submit the Request for a University Excused Absence form for an excuse. Upon receipt, a staff member will verify the documentation and provide an official university excuse, if applicable. The student is responsible for providing the official university excuse issued by the Office for Student Conduct to the professor(s). Questions should be directed to the Dean of Students via email: deanofstudents@pvamu.edu or phone: (936) 261-3550 or Office for Student Conduct via email: studentconduct@pvamu.edu or phone: (936) 261-3524.

Student Academic Appeals Process

Authority and responsibility for assigning grades to students rest 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 University Online Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.

Technical Considerations

Minimum Recommended Hardware and Software:

- Intel PC or laptop with Windows 10 or later version; Mac with OS Catalina
- Smartphone or iPad/tablet with wi-fi*
- High-speed internet access
- 8 GB memory
- Hard drive with 320 GB storage space
- 15" monitor, 1024 x 768, color
- Speakers (internal or external)
- Microphone and recording software
- Keyboard & mouse
- Most current version of Google Chrome, Safari, or Firefox

Note: Be sure to enable Java & pop-ups in the web browser preferences

* Some courses may require remote proctoring. At this time only Chromebooks, laptops, and desktops running Windows or Mac work with our proctoring solution, but iPads are not compatible. Most other applications will work with Android or Apple tablets and smartphones.

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

- Sending and receiving email
- A working knowledge of the Internet
- Microsoft Word (or a program convertible to Word)
- Acrobat PDF Reader
- Windows or Mac OS
- Video conferencing software (Zoom)

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 discussion boards. Foul or abusive language will not be tolerated. Do not use ALL CAPS for communicating to others AS IT CAN BE INTERPRETED AS YELLING. Avoid slang terms such as "wassup?" and texting abbreviations such as "u" instead of "you." Limit and possibly avoid the use of emoticons. Be cautious when using humor or sarcasm as tone is sometimes lost in an email

or discussion post, and the message might be taken seriously or sound offensive.

Video Conferencing Etiquette

When using Zoom, WebEx, or other video conferencing tools, confirm the visible area is tidy, clear of background clutter, inappropriate or offensive posters, and other distractions. Ensure you dress appropriately and avoid using high traffic or noisy areas. Stay muted when you are not speaking and avoid eating/drinking during the session. Before the class session begins, test audio, video, and lighting to alleviate technology issues.

Technical Support

Students should go to [Password Reset Tool](#) 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 Center for Instructional Innovation and Technology Services at 936-261-3283 or email ciits@pvamu.edu.

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 occur in a seminar fashion. The use of the discussion board will accomplish this. The instructor will determine the exact use of discussion boards.

It is strongly suggested that students type their discussion postings in a word processing application such as Word 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, copy and paste to the discussion board.

COVID-19 Campus Safety Measures

In accordance with the latest guidelines from the PVAMU Health Services, the following measures are in effect until further notice.

- Students who are ill will be asked to adhere to best practices in public health, such as masking, handwashing, and social distancing, to help reduce the spread of illness across campus.
- Mandatory self-reporting will no longer be required by students. Students will be responsible for communicating with their professors regarding COVID, similarly to any other illness.
- There will be no mandatory isolation. Students who are too ill to engage in classroom activities will be responsible for securing the appropriate documentation to support the absence.
- Students who self-isolate will be responsible for communicating with their professors and securing an excuse from Student Conduct.
- All students will have access to [TimelyCare](#), a telehealth platform that provides virtual medical care 24/7 and by appointment in the Student Health Clinic. Students are encouraged to enroll with TimelyCare at the beginning of the semester, at timelycare.com/pvamu.
- Students will have access to COVID testing in the Student Health Clinic by appointment. Testing is for students who are symptomatic ONLY.

- Personal Illness and Quarantine - Students required to quarantine are to participate in courses and course-related activities remotely and must not attend face-to-face course activities. Students should notify their instructors of the quarantine requirement. Students under quarantine are expected to participate in courses and complete graded work unless they have symptoms that are too severe to participate in course activities. Students experiencing personal injury or illness that is too severe for the student to attend class qualify for an excused absence. To receive an excused absence, students must provide appropriate documentation to the Office for Student Conduct, studentconduct@pvamu.edu.

TENTATIVE SEMESTER CALENDAR

(This schedule is subject to change at the discretion of the instructor)

Week	LECTURE	CHAPTER(S)	LAB MODULE(S)	C.U.R.E PROJECT
1/16	The Cell Cycle	12	1	
1/22	Meiosis & Sexual Life Cycles	13	1, 2	Introduction to Research in Biostatistics
1/29	Mendel and the Gene Idea (14.1 – 14.3)	14	3	
2/5	Mendel and the Gene Idea (14.4) The Chromosomal Basis of Inheritance (15.1 – 15.3)	14, 15	3	Literature Review
2/12	The Chromosomal Basis of Inheritance (15.4 – 15.5)	15	3	
2/19	The Molecular Basis of Inheritance	16	4	Research Question
2/26	Gene Expression: From Genes to Protein (17.1 – 17.3)	17	4	
3/4	Gene Expression: From Genes to Protein (17.4 – 17.5)	17		Hypothesis
3/18	Regulation of Gene Expression (18.1 – 18.3)	18	5	Introduction to Biostatistics
3/25	Cell Communication (11.1 – 11.4)	11	5	Data Analysis and Visualization
4/1	Cell Communication (11.5) Regulation of Gene Expression (18.4 – 18.5))	11, 18		Statistical Inference in Biology
4/8	Genomes & Their Evolution	21		Experimental Design and Data Collection
4/15	Descent with Modification: A Darwinian View of Life	22	6	Experimental Design and Data Collection
4/22	The Evolution of Populations	23	6	Experimental Design and Data Collection
4/29	Apr 29 - Study Day (No Classes in Session)	5		Class Presentations
5/5	Apr 30 - May 08 - Final Exams	5		Class Presentations

LAB MODULES

MODULE	TOPIC	ACTIVITIES
1	Regulation of the Cell Cycle	Growth Factors, Cyclins, and Cancer
	Identifying the Phases of the Cell Cycle	Comparing Mitosis in Plant and Animal cells
2	Chromosomal Events During Meiosis	Constructing Chromosomes
	Identifying the Phases of the Meiosis	Observations of Meiosis in The Lily Anther
3	Mendelian Inheritance	Fly Genetics
		Pedigrees
	Non-Mendelian Inheritance	Synthetic Blood - Paternity Test
	Karyotypes	Disorder Detectives: Examining Human Chromosome Disorders
	Gene Linkage and Mapping Genes	Mapping Chromosomes
4	The Structure and Function of DNA	Modeling DNA Replication
	Protein Synthesis	Bead Synthesis and Mutations
	Polymerase Chain Reaction	Bacterial Identification Lab (Parts 1-3)
	DNA Sequencing	Bacterial Identification Lab (Parts 4-5)
		Sanger DNA Sequencing Virtual Lab
5	Restriction Enzymes	PCR Forensics Simulation
		Restriction Mapping
	Recombinant DNA Technology	Modeling Recombinant DNA Construction
		Design a Plasmid
		Transgenic Fruit Fly Virtual Lab
6	Bioinformatics	NCBI Taxonomy and Blast Searching
		Phylogenetics