

# **SYLLABUS**

# CHEM 1306 Introductory Chemistry I FALL 2023

Instructor:	Dr. Gina M. Chiarella
Section # and CRN:	P05 and 12229
Office Location:	Room# 230AF E. E. O'Banion Science Building
Office Phone:	936-261-3113
Email Address:	gmchiarella@pvamu.edu PREFERRED MODE OF CONTACT!!
Office Hours:	<i>MW: 12:00 pm – 3:00 pm (room 221) or by appointment</i>
Mode of Instruction:	Face to Face
Course Location:	Room# 122 at E. E. O'Banion Science Building
Class Days & Times:	TR: 5:00 am – 6:20 pm
	Attendance face to face is mandatory
Response-time for feedback and grading of assignments and exams	Students can expect feedback and grades on assignments and exams WITHIN five days, unless otherwise noted.
Catalog Description:	An introductory course to essential chemical principles including atoms, atomic structure, molecules, and compounds, elementary stiochiometry, and calculations, type of chemical reactions and fundamental principles. The interpretation and evaluation of case studies to develop fundamental knowledge and skills. This course will require a fair amount of writing and Teamwork. For health science and non majors.
Prerequisites:	None
Co-requisites:	None
Required Texts:	Chemistry: An Introduction to General, Organic and Biological Chemistry, 13 <sup>th</sup> edition by Karen C. Timberlake
Recommended Texts:	
Access to Learning	PVAMU Library:
Resources:	phone: (936) 261-1500;
	web: http://www.tamu.edu/pvamu/library/
	University Bookstore:
	phone: (936) 261-1990;
	web: <u>https://www.bkstr.com/Home/10001-10734-1?demoKey=d</u>
	Online homework discussion:
	Packback register online

# Student Learning Outcomes:

	Upon successful completion of this course, students will be able to:	Program Learning Outcome # Alignment	Core Curriculum Outcome Alignment
1	Recognize and apply the basics of scientific approach and methods (Critical Thinking and Empirical and Quantitative Skills).		

2	Identify the structure of atoms and molecules and the nature of chemical bonds between atoms (Critical Thinking and Empirical and Quantitative Skills).	
3	Analysis and evaluate the properties of acids, bases, salts and buffers (Critical Thinking and Empirical and Quantitative Skills).	
4	Recognize oxidation-reduction reaction and formulate the reaction mechanisms (Critical Thinking and Empirical and Quantitative Skills).	
5	Evaluate solution equilibrium and the role of pH values (Communication and Empirical and Quantitative Skills).	
6	Identify radiation and evaluate its effect on cells and organs (Communication and Critical Thinking).	
7	Formulate the relationship and calculate P, V, n and T using gas laws (Empirical and Quantitative Skills).	
8	Recognize the principle of nuclear radiation and its application (Critical Thinking).	

#### **Major Course Requirements** Method of Determining Final Course Grade **Course Grade Requirement** Value Total 1) Quizzes 8 quizzes at 50 points each (lowest 2 grades will be dropped) 300 2) Homework – discussion Packback (online) 90 4 sets of exercises (2.5 points each) 10 3) Exercises 4) Final Exam 100 points 100 Total: 500 **Grading Criteria and Conversion:** A = 450 - 500 pts (90-100%) B = 400 - 449 pts (80-89.9%) C = 350 - 399 (70-79.9%) D = 300 - 349 (60-69%)F < 300 (60%) **Course Procedures or Additional Instructor Policies** Submission of Assignments: All homework assignments are graded for completion and are due on the day of the exam covering those moduless.

# Formatting Documents:

Microsoft Word is the standard word processing tool used at PVAMU. If you're using other word processors, be sure to use the "save as" tool and save the document in either the Microsoft Word, Rich-Text, or plain text format.

# **Quizzes Policy**

- Quizzes should be taken as scheduled. No makeup examinations will be allowed except under documented er Student Handbook).
- The three lowest grades
- Scratch paper and ACS approved Periodic Table will be provided to students.
- Students need to bring Calculator, Scantron (blue or green color) and Pencil (No. 2).
- Cell phones CANNOT be used as calculators and are not allowed to be used during exams.
- Quizzes will last 30 minutes, if the student leave the room during guiz time, the test will be collected
- Final exam will be common. The date and time is TBD.

# Semester Calendar

Week One: Topic		
Module 1:	Т	Introduction and Syllabus Review
	R	Chemistry and Measurements
Assignment (s):		N/A

Week Two: Topic	
Module 1: T	Chemistry and Measurements
R	Matter and Energy
	Packback (Module 1)
Assignment (s):	
Week Three: Topic	Mattan and Frances
Module 2: T	Matter and Energy
R	Atoms and Elements
Assignment (s):	Packback (Module 2)
Week Four: Topic	
Module 3: T	Atoms and Elements
R	Compounds and their Bonds
Assignment (s):	Packback (Module 3)
Week Five: Topic	
Module 4: T	Compounds and their Bonds
R	Quiz-1 (Modules 1 and 2)
i i i i i i i i i i i i i i i i i i i	Compounds and their Bonds
Assignment (s):	Packback (Module 4)
Week Six: Topic	
Module 5: T	Chemical Quantities and Reactions
R	Quiz-2 (Module 3)
ĸ	Chemical Quantities and Reactions
Assignment (s):	
Assignment (s):	Exercises
Week Seven: Topic	
Module 5: T	Chemical Quantities and Reactions
R	Chemical Quantities and Reactions
Assignment (s):	Exercises
Week Eight: Topic	
Module 5: T	Chemical Quantities and Reactions
R	Quiz-3 (Module 4)
	Chemical Quantities and Reactions
Assignment (s):	Packback (Module 5)
Week Nine: Topic	
Module 6: T	Gases
R	Gases
Assignment (s):	Exercises
Week Ten: Topic	
Module 6 - 7: T	Gases
R	Quiz-4 (Module 5)
ĸ	Solutions
Assignment (s):	Packback (Module 6)
Week Eleven: Topic	
Module 7: T	Solutions
R	
R	Quiz-5 (Module 6)
Assistant (a):	Solutions
Assignment (s):	Packback (Module 7)
Week Twelve: Topic	Aside and Desse
Module 8: T	Acids and Bases
R	Quiz-6 (Module 7)
	Acids and Bases
Assignment (s):	Exercises
Week Thirteen:	
Module 8: T	Acids and Bases
R	Acids and Bases
Assignment (s):	Packback (Module 8)
Week Fourteen: Topic	
Module 9: T	Nuclear Radiation

	R	Quiz-7 (Module 8)
		Nuclear Radiation
Assignment (s):		Packback (Module 9)
Week Fifteen Topic	Т	Quiz-8 (Module 9)
Module (s):	R	Review Modules
Assignment (s):		N/A
Week Sixteen		
Final Exam (Common Exam)		

### 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. Website: <u>https://www.pvamu.edu/library/;</u> 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 <u>advising website</u>. 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: <a href="mailto:pvtutoring@pvamu.edu">pvtutoring@pvamu.edu</a>; <a href="mailto:UniversityTutoring@pvamu.edu">UniversityTutoring@pvamu.edu</a>; University

# 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; Website: <a href="https://www.pvamu.edu/student-success/writing-center/">https://www.pvamu.edu/student-success/writing-center/</a>; Grammarly Registration: <a href="https://www.grammarly.com/enterprise/signup">https://www.grammarly.com/enterprise/signup</a>

#### **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

# Academic Early Alert

Academic Early Alert is a proactive system of communication and collaboration between faculty, academic advisors, and PVAMU students that is designed to support student success by promptly identifying issues and

allowing for intervention. Academic Early Alerts help students by providing a central location to schedule advising appointments, view advisor contact information, and request assistance. Students who recognize that they have a problem that is negatively affecting their academic performance or ability to continue school may self-refer an Academic Early Alert. To do so, students will log in to PV Place and click on Academic Early Alert on the left sidebar. Phone: 936-261-5902; Website: <a href="https://www.pvamu.edu/student-success/early-alert/">https://www.pvamu.edu/student-success/early-alert/</a>

# Student Counseling Services

The Student Counseling Services unit 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, 2<sup>nd</sup> floor; Phone: 936-261-3564; Website: <a href="https://www.pvamu.edu/healthservices/student-counseling-services/">https://www.pvamu.edu/healthservices/student-counseling-services/</a>

# **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 <u>OTS – Proctoring Service website</u>. Location: Wilhelmina Delco, 3<sup>rd</sup> 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; Website: <a href="https://www.pvamu.edu/disabilityservices/">https://www.pvamu.edu/disabilityservices/</a>

# 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 <u>CIITS Student Website</u>. Phone: 936-261-3283 or email: <u>ciits@pvamu.edu</u>.

# **Veteran Affairs**

Veterans 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; Website: <a href="https://www.pvamu.edu/sa/departments/veteranaffairs/">https://www.pvamu.edu/sa/departments/veteranaffairs/</a>

# Office for Student Engagement

The Office for Student Engagement delivers comprehensive programs and services designed to meet the cocurricular 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; Website: <u>https://www.pvamu.edu/studentengagement/</u>

# 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, 2<sup>nd</sup> 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 <u>Academic Integrity webpage</u>. 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. <u>Cheating</u>: 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. <u>Plagiarism</u>: 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. <u>Collusion</u>: When more than one student or person contributes to a piece of work that is submitted as the work of an individual;
- 4. <u>Conspiracy</u>: Agreeing with one or more persons to commit an act of academic/scholastic dishonesty; and
- 5. <u>Multiple Submission</u>: 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.

# **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 nondiscrimination 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 nondiscrimination 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.

# 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 <u>Password Reset Tool</u> 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 citis@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 [NOTE: Delete this section when the COVID-19 pandemic is over]

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 <u>TimelyCare</u>, 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 <u>timelycare.com/pvamu</u>.
- Students will have access to COVID testing in the Student Health Clinic by appointment. Testing is for students who are symptomatic ONLY.