

CHEM 1112
Course Title: General Chemistry Lab II
Spring 2024

Instructor: Dr. Matthew Minus
Section # and CRN: P53 24140
Office Location: E.E. O'Banion Science Building, 212
Office Phone: 936 261-3120
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Office Hours: 2-4pm (M,W) 9:30-11:00am (T,R) Call to setup an appointment
Mode of Instruction: Face to Face, Zoom

Course Location: E. E. O'Banion Science Building, 205
Class Days & Times: M 10:00 – 11:50 PM
Catalog Description: General Chemistry Laboratory II – (0-2) Credit 2 semester hours. A general laboratory course covering aspects of volumetric and gravimetric analysis, qualitative analysis, determination of chemical and physical properties,

Prerequisites: CHEM 1111 must be taken prior to this lab. (([MATH 1314](#) or MATH 1113) or ([MATH 1511](#) or MATH 1115)) and (([CHEM 1403](#) (may be taken concurrently) or CHEM 1034 (may be taken concurrently)) or ([CHEM 1304](#) (may be taken concurrently) or CHEM 1043 (may be taken concurrently)))

Co-requisites:

Required Texts: Modular Laboratory Program in Chemistry (**Provided by Department of Chemistry**)

Recommended Texts:

Student Learning Outcomes:

	Upon successful completion of this course, students will be able to: [NOTE: Begin each outcome with a verb]:	Program Learning Outcome # Alignment	Core Curriculum Outcome Alignment
1	Use conversion factors in metric or U.S. units and apply the significant figure concept in stoichiometric calculations		
2	Use basic laboratory equipment		
3	Demonstrate the ability to prepare solutions from solids and by dilution		
4	Define chemistry concisely and with clarity from a practical standpoint		
5	Write correct formulas of compounds, write balanced chemical equations and identify various reaction types through observation		

6	Identify the safety symbols and equipment in a chemistry laboratory and understand their primary use		
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Major Course Requirements

Method of Determining Final Course Grade

Course Grade Requirement

- Lab assignments: 7 lab assignments at 100 points Lab Total: 700 ○
- Professionalism: 200 points Grand Total: 900

A failure to attend a lab will result in an automatic 50% deduction from your lab report.

Grading Criteria and Conversion:

- A = 90% of points
- B = 89-80% of points
- C = 79 –70% of points
- D = 69-60% of points
- F = 59% of points and below

****Your scholastic performance is only part of your grade. Your professionalism as it relates to oral and written communication will also be a major part of your grade and can be as much as 20%. Your professionalism will reflect your scholastic performance unless it is far below or above class standards.**



Detailed Description of Major Assignments: Assignment Title or Grade Requirement Description

Laboratory Experiments Each student is required to: follow the safety guidelines for a safe laboratory experience; pay close attention to the instructor; wear safety goggles/glasses (available in lab) while in class; read the experimental procedure and do the prelab prior to coming to the class; clean work area and place all items in the designated storage area prior to leaving the laboratory class; report broken or missed equipment to the instructor. **Number of labs completed is subjected to change. Points will be deducted from reports for failures in any areas listed above.**

Course Procedures or Additional Instructor Policies

Taskstream

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

Semester Calendar

Lab One: Topic #1-**TECH 430: Laboratory Techniques: Safety Precautions: Safety Quiz: Safety Film: Issue Lab Manual**

Lab two: Topic **#2-PROP 393:A Study of Density: Oil and Vinegar**

Assignment (s): Lab report next day **Lab three:**

Topic

Chapter (s): **#3-PROP 375:Separating and Isolating the Components of a Ternary Mixture of Solids**

Assignment (s): Lab report next day

Lab 4: Topic

Chapter (s): **#4- PROP 391: Solutions**

Assignment (s): Lab report next day

Lab 5: Topic

Chapter (s): **5 #5- STRC 434: Writing Lewis Symbols and Lewis Structures** Assignment

(s): Lab report

Lab 6: Topic

Chapter (s): **#6- REAC 422: Studying Chemical Reactions and Writing Chemical**

Lab seven:

Topic

Chapter (s): **#7- ANAL 479:Determining the formula of an Ionic Hydrate Gravimetrically**

Assignment (s): Lab report

Lab 8: Topic

Chapter (s): **#8- STOI 007:Stoichiometry: Mole Ratio Study** Assignment (s):

Lab report

Lab 9: Topic

Chapter (s): **#9- EQUIL 466:Standardizing a Sodium Hydroxide Solution and using it to Analyze Vinegar**

Assignment (s): Lab report

Lab ten: Topic

Chapter (s): **10# ANAL 415:Introducing Volumetric Techniques by Analyzing Bleaching Solutions**

Assignment (s): Lab report

Lab 11: Topic

Chapter (s): **#11- Make up Labs**

Assignment (s): **Lab report**

Lab 12: Topic

Chapter (s): **Final Exam Period**
Assignment (s): **Lab report**
Final Topic
Chapter (s):
Assignment (s): **Department Lab Manuals collected.**

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, CampusWide 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. **A report will be made to the department head as well as the office of student affairs.**

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.
5. **Lab are done individually except if asked by instructor to work in groups. All pre-lab are also individual assignments absolutely no plagiarized work will be accepted. A zero will be enter for you grade.**

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. **A report will be made to the department head as well as the office of student affairs.**

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. Lab will begin promptly at which time the door will be closed for safety reasons. No one will be admitted improperly dressed and no one will be admitted after 15minuteswhen the class has begun. **Only one makeup lab is permitted verifiable, university approved excuses in writing and instructor availability. Time will be determined by instructor only.**

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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Disclaimer

The instructor reserves the right to amend or change the syllabus at any time.

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.

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