



# SYLLABUS

## CHEM 1011 GENERAL CHEMISTRY LAB I SPRING 2019

**Instructor:** Dr. Gururaj M. Neelgund  
**Section # and CRN:** P51 and 26860  
**Office Location:** Room# 306 E. E. O'Banion Science Building  
**Office Phone:** 936-261-3099  
**Email Address:** gmneelgund@pvamu.edu *PREFERRED MODE OF CONTACT!!*  
**Office Hours:** MWF: 9am-10am and MW: 12noon-3pm *or by appointment*  
**Mode of Instruction:** Face to Face

**Course Location:** Room# 201 at E. E. O'Banion Science Building  
**Class Days & Times:** Thursday 1:00 pm - 2:50 pm  
**Catalog Description:** Inorganic Chemistry Laboratory I. (0-2) Credit 1 semester hour. A general laboratory course covering aspects of qualitative and quantitative analysis and determination of chemical and physical properties

**Prerequisites:**  
**Co-requisites:** **MATH 1113, CHEM 1013 or CHEM 1033**

**Required Texts:** Modular Laboratory Program in Chemistry

**Recommended Texts:** **Chemistry: An Introduction to General, Organic and Biological Chemistry, Tenth edition by Karen C. Timberlake**

### Student Learning Outcomes:

	Upon successful completion of this course, students will be able to:	Program Learning Outcome # Alignment	Core Curriculum Outcome Alignment
1	Be able to understand and follow basic laboratory safety procedures.		
2	Be able to perform basic laboratory techniques such as titration and filtration.		
3	Be able to understand the theoretical chemical principles that are supported by experimental results.		
4	Demonstrate the ability to perform simple stoichiometric calculations.		
5	Identify the impact of chemical systems on everyday life.		
6	Define chemistry more concisely and with clarity.		

## Major Course Requirements

### Method of Determining Final Course Grade

Each lab experiment will be graded with a maximum score of 100 points. The pre-laboratory assignment which must be completed for all experiments, accounts for 30% of the grade of each lab. Each pre-laboratory assignment must be handed in at the beginning of the class where the experiment is performed. The in-laboratory data sheets and the post-laboratory assignments account for 30% each of them and they must be handed in during the next experiment. Performance of the students during experiments will account for the remaining 10% of the grade of each experiment. Two partial exams will be given to students each of them will be graded out with a maximum score of 50 points.

Course Grade Requirement	Value	Total
Lab reports and execution	8 labs at 100 points each	800
Lab quizzes	10 x 10 points each	100
<b>Total:</b>		<b>900</b>

### Grading Criteria and Conversion:

A = 900 to 810

B = 809 to 720

C = 719 to 630

D = 629 to 540

F < 539

## 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

<b>Week One:</b> Topic	<b>No Lab for Students/Initial Preparation Period</b>
Chapter (s):	
Assignment (s):	
<b>Week Two:</b> Topic	#1-TECH 430: Laboratory Techniques: Safety Precautions: Safety Quiz: Safety Film: Issue Lab Manual
Chapter (s):	<b>1</b>
Assignment (s):	Lab report
<b>Week Three:</b> Topic	The Gas Burner and Glass Working
Chapter (s):	#2-TECH 381
Assignment (s):	Lab report
<b>Week Four:</b> Topic	A study of Density: Oil & Water
Chapter (s):	#3-PROP 393
Assignment (s):	Lab report
<b>Week Five:</b> Topic	Separating the Components of a Binary Mixture
Chapter (s):	#4-PROP 374
Assignment (s):	Lab report
<b>Week Six:</b> Topic	Percent Water in a Hydrate
Chapter (s):	#5-ANAL 387
Assignment (s):	Lab report
<b>Week Seven:</b> Topic	The Empirical Formula of an Oxide
Chapter (s):	#6-STOI 388
Assignment (s):	Lab report
<b>Week Eight:</b> Topic	Detecting Signs of Chemical Change
Chapter (s):	#7-REAC 399
Assignment (s):	Lab report
<b>Week Nine:</b> Topic	Identifying Six Solutions by their Interactions
Chapter (s):	#8-REAC 405
Assignment (s):	Lab report
<b>Week Ten:</b> Topic	Stoichiometry of the reaction of Magnesium with Hydrochloric Acid
Chapter (s):	#9-STOI 369
Assignment (s):	Lab report
<b>Week Eleven:</b> Topic	Heat of Neutralization
Chapter (s):	#10-THER 368
Assignment (s):	Lab report
<b>Week Twelve:</b> Topic	Review / Experiment Completion
Chapter (s):	
Assignment (s):	
<b>Week Thirteen:</b> Topic	
Chapter (s):	
Assignment (s):	
<b>Week Fourteen:</b> Topic	
Chapter (s):	
Assignment (s):	
<b>Week Sixteen</b> Topic	<b>Final Exam Period</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.

**Disability statement (See Student Handbook):**

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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.