

Instructor: Dr. Ananda Amarasekara

Section # and CRN:

**Inorganic Chemistry Lab I
CRN# -26858, CHEM 1011 - P50**

Office Location: 230F *Science Building*

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Email Address: asamarasekara@pvamu.edu

Office Hours:

Mode of Instruction: Face to Face

Course Location: *Science Building, 201*

Class Days & Times: **T 1.00PM – 2:50 PM, Jan 14 to May 11, Spring 2019**

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: MATH 1113, CHEM 1013 or CHEM 1033

Co-requisites:

Required Texts: Modular Laboratory Program in Chemistry

Recommended

Texts:

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 use conversion factors in metric or U.S. units and apply the significant figure concept in stoichiometric calculations.	2	Critical thinking
2	Be able to use basic laboratory equipment as well as the buret, electronic balances and the centrifuge.	2	Critical thinking
3	Demonstrate the ability to prepare solutions from solids and by dilution.	2	Critical thinking
4	Define chemistry concisely and with clarity from a practical stand point.	2	Critical thinking
5	Be able to write correct formulas of compounds, write balanced chemical equations and identify various reaction types through observation.	2	Critical thinking
6	Be able to use conversion factors in metric or U.S. units and apply the significant figure concept in stoichiometric calculations.	2	Critical thinking
7			

Major Course Requirements

Method of Determining Final Course Grade

Course Grade Requirement **Value** **Total**

Instrument	Value (points or percentages)	Total
Lab performance and report	12 assignments at 100 points each	1200
Total:		1200

8)

Total: 1200 converted to the % grade

Grading Criteria and Conversion:

A = > 90

B = 89 – 80

C = 79 – 70

D = 69 – 60

F = < 59

Detailed Description of Major Assignments: no assignments or projects

Assignment Title or

Grade Requirement

Description

Week One: Topic No Lab for Students/Initial Preparation Period Chapter (s): Assignment (s): Week

Two: Topic #1-TECH 430: Laboratory Techniques: Safety Precautions: Safety Quiz: Safety Film:

Issue Lab Manual Chapter (s): 1 Assignment (s): Lab report

Week Three: Topic The Gas Burner and Glass Working Chapter (s): #2-TECH 381 Assignment (s):
Lab report

Week Four: Topic A study of Density: Oil & Water Chapter (s): #3-PROP 393 Assignment (s): Lab
report

Week Five: Topic Separating the Components of a Binary Mixture Chapter (s): #4-PROP 374
Assignment (s): Lab report

Week Six: Topic Percent Water in a Hydrate Chapter (s): #5-ANAL 387 Assignment (s): Lab report

Week Seven: Topic The Empirical Formula of an Oxide Chapter (s): #6-STOI 388 Assignment (s):
Lab report

Week Eight: Topic Detecting Signs of Chemical Change Chapter (s): #7-REAC 399 Assignment (s):
Lab report
Week Nine: Topic Identifying Six Solutions by their Interactions Chapter (s): #8-REAC 405
Assignment (s): Lab report
Week Ten: Topic Stoichiometry of the reaction of Magnesium with Hydrochloric Acid Chapter (s): #9-
STOI 369 Assignment (s): Lab report
Week Eleven: Topic Heat of Neutralization Chapter (s): #10-THER 368 Assignment (s): Lab report
Week Twelve: Topic Review / Experiment Completion Chapter (s): Assignment (s):
Week Thirteen: Topic Chapter (s): Assignment (s):
Week Fourteen: Topic Chapter (s): Assignment (s): Week Sixteen Topic Final Exam Period

Student Support and Success

John B. Coleman Library

The library and its partners have as their mission "to provide resources and instructional material in support of the evolving curriculum, as a partner in Prairie View A&M University's mission of teaching, research, and service" and to support the University's core values of "access and quality, diversity, leadership, relevance, and social responsibility" through emphasis on ten key areas of service. It maintains library collections and access both on campus, online, and through local agreements to further the educational goals of students and faculty.

Center for Academic Support

The Center for Academic Support (CAS) offers Tutoring via peer tutoring. The services include workshops (i.e., Save My Semester, Recalculate Your Route), seminars (i.e., Tools You Can Use: TI-84), group review sessions (i.e., College Algebra Topic Reviews, GRE Preparation), group study opportunities (i.e., TSIA, HESI, Study Break, Exam Cram), and test-taking strategies (How to take Notes, Study Buddy, 5 Day Study Guide). The Tutoring Center is a nationally certified tutoring program through the National Tutoring Association. The peer tutors are trained and certified by the coordinator each semester. Location: J.B. Coleman Library

COMPASS

The Center for the Oversight and Management of Personalized Academic Student Success (COMPASS) is designed to help Prairie View students in their second year and beyond navigate towards graduation by providing the following services: Academic Advisement, Targeted Tutorials for Personalized Learning, Campus-Wide Referrals, and Academic & Social Workshops. Location: J.B. Coleman Library

Writing Center

The Writing Center provides student consultants on all aspects of the writing process and a variety of writing assignments. Writing Center consultations assist students in such areas as prewriting, brainstorming, audience awareness, organization, research, and citation. Location: Hilliard Hall 121

University Rules and Procedures

Disability statement (See Student Handbook):

Students with disabilities, including learning disabilities, who wish to request accommodations in class should register with the Services for Students with Disabilities (SSD) early in the semester so that appropriate arrangements may be made. In accordance with federal laws, a student requesting special accommodations must provide documentation of their disability to the SSD coordinator.

Academic misconduct (See Student Handbook):

You are expected to practice academic honesty in every aspect of this course and all other courses. Make sure you are familiar with your Student Handbook, especially the section on academic misconduct. Students who engage in academic misconduct are subject to university disciplinary procedures.

Forms of academic dishonesty:

1. Cheating: deception in which a student misrepresents that he/she has mastered information on an academic exercise that he/she has not mastered; giving or receiving aid unauthorized by the instructor on assignments or examinations.
2. Academic misconduct: tampering with grades or taking part in obtaining or distributing any part of a scheduled test.
3. Fabrication: use of invented information or falsified research.
4. Plagiarism: unacknowledged quotation and/or paraphrase of someone else's words, ideas, or data as one's own in work submitted for credit. Failure to identify information or essays from the Internet and submitting them as one's own work also constitutes plagiarism.

Nonacademic misconduct (See Student Handbook)

The university respects the rights of instructors to teach and students to learn. Maintenance of these rights requires campus conditions that do not impede their exercise. Campus behavior that interferes with either (1) the instructor's ability to conduct the class, (2) the inability of other students to profit from the instructional program, or (3) campus behavior that interferes with the rights of others will not be tolerated. An individual engaging in such disruptive behavior may be subject to disciplinary action. Such incidents will be adjudicated by the Dean of Students under nonacademic procedures.

Sexual misconduct (See Student Handbook):

Sexual harassment of students and employers at Prairie View A&M University is unacceptable and will not be tolerated. Any member of the university community violating this policy will be subject to disciplinary action.

Attendance Policy

Prairie View A&M University requires regular class attendance. Excessive absences will result in lowered grades. Excessive absenteeism, whether excused or unexcused, may result in a student's course grade being reduced or in assignment of a grade of "F". Absences are accumulated beginning with the first day of class.

Student Academic Appeals Process

Authority and responsibility for assigning grades to students rests with the faculty. However, in those instances where students believe that miscommunication, errors, or unfairness of any kind may have adversely affected the instructor's assessment of their academic performance, the student has a right to appeal by the procedure listed in the Undergraduate Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.

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TECHNICAL CONSIDERATIONS

Minimum Recommended Hardware and Software:

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

Note: Be sure to enable Java & pop-ups

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

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

Netiquette (online etiquette):

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

Technical Support:

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

Communication Expectations and Standards:

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

Discussion Requirement:

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

It is strongly suggested that students type their discussion postings in a word processing application and save it to their PC or a removable drive before posting to the discussion board. This is important for two

reasons: 1) If for some reason your discussion responses are lost in your online course, you will have another copy; 2) Grammatical errors can be greatly minimized by the use of the spell-and-grammar check functions in word processing applications. Once the post(s) have been typed and corrected in the word processing application, it should be copied and pasted to the discussion board.