

**CHEM 1043
General Inorganic Chemistry II
Summer 2019
July 8th- August 10th**

Instructor: Dr. L. E. Bush
Section # and CRN: P01 32110
Office Location: Rm 330AF New Science Building
Office Phone: 936-261-3194
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Office Hours: By appointment
Mode of Instruction: Face-to-Face

Course Location: Room 103 New Science Building
Class Days & Times: M-R 11:00am - 1:40pm
Catalog Description: *General Inorganic Chemistry II. (3-0) Credit 3 semester hours.* A continuation of CHEM 1033. Bonding theory and molecular structure, intermolecular forces properties of solutions, chemical kinetics, chemical equilibrium, acid/ base equilibria, thermodynamics, electrochemistry and nuclear chemistry and introduction to organic chemistry

Prerequisites: MATH 1113, CHEM1033
Co-requisites:

Required Texts: **CHEMISTRY: Principles and Reactions by William L. Masterton and Cecile N. Hurley (Cengage Learning) 8th edition. ISBN-13: 9781305079373 ISBN: 978-0-393-91234-0**
<https://www.bkstr.com/Home/10001-10734-1?demoKey=d>
 University Bookstore: phone:(936) 261-1990;
 web: <https://www.bkstr.com/Home/10001-10734-1?demoKey=d>

Recommended Texts: PVAMU Library: phone: (936) 261-1500; web: <http://www.tamu.edu/pvamu/library/>

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 the scientific approach and methods involving making observations and gathering data;	ABEF	
2	Be able to perform stoichiometric calculations	ABEF	
3	Demonstrate the ability to obtain basic knowledge of First Law of Thermodynamics and energy balance calculations;	ABEF	
4	Gain a basic understanding of atomic structure and electronic configurations of elements	ABEF	
5	Be able to understand the kinetic molecular theory of gases and perform simple calculations using the ideal gas laws	ABEF	
6	Gain a basic understanding of periodic properties of elements and chemical	ABEF	

	bonding		
7	Apply knowledge of chemistry to everyday life and explain the observation and changes	ABEF	

Major Course Requirements

Method of Determining Final Course Grade

Course Grade Requirement	Value	Total
1) Exams – multi format tests designed to measure knowledge and understanding of presented course material	100 x 4	400
2) In-class Exercises/Pop quizzes - written assignments designed to supplement and reinforce course material	10 x 5	50

Total: 450 points (subject to change at the discretion of the instructor)

Grading Criteria and Conversion: [earned total /class total x 100]

A = 500-450

B = 449-400

C = 399-300

D = 299-250

F = below 250

Detailed Description of Major Assignments:

Assignment Title or Grade Requirement

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.

Submission of Assignments:

TBA

Formatting Documents for projects:

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.

Exam Policy

Exams should be taken as scheduled. Makeup examinations will be allowed if and only if a verifiable, university approved document is submitted immediately after the exam. All exams will be counted or included in the final class total. Only Scratch paper and ACS approved Periodic Table will be provided to students. There should be no expectation of a formula sheet for in class exams, this is only issued at the instructors' discretion. Formulas are only

provided during final exams and during in class exams at the discretion of the instructor. Students must be able to recall formulas need at the time of an exam. Students need to bring Calculator. No cell phones, smart watches, or other smart devices are permitted during exams. The provision of Scantron (blue or green color) and Pencils (No. 2) are the responsibility of each student. Students with excused absences will be allowed to take make-up exams within a limited period of time and at a time designated by instructor. If an exam is missed and the instructor is not notified in a reasonable time frame a zero will be recorded. No programmable calculators with save data allowed, may only be used if re-rest in instructor's presence. Exams should be taken as scheduled. No makeup examinations will be allowed except under documented emergencies (See Student Handbook).

SUMMER CALENDAR

Week One: Topic	Introduction and Syllabus Review, Rate of Reaction, Gaseous Equilibrium
Chapter (s):	11, 12
Assignment (s):	HW- Ch. 11 & Ch. 12 R: Quiz 1
Week Two: Topic	Acids and Bases, Equilibria in Acid-Base Solutions
Chapter (s):	13, 14
Assignment (s):	HW- Ch. 13 &14 M: Exam 1 R: Quiz 2
Week Three: Topic	Complex Ion and Precipitation Equilibria, Spontaneity of Reaction
Chapter (s):	15, 16
Assignment (s):	HW- Ch. 15 & 16 M: Exam 2 R: Quiz 3
Week Four: Topic	Electrochemistry, Complex Ions
Chapter (s):	17, 19
Assignment (s):	HW- Ch. 17 & 19 M: Exam 3 R: Quiz 4
Week Five: Topic	Chemistry of the Metals
Chapter (s):	20
Assignment (s):	HW- Ch. 20 M: Exam 4 R. Quiz 5
Week Five Topic	FINAL EXAM
Chapter (s):	11-20
Assignment (s):	Friday August 9th

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.

5. Online homework is solely your responsibility, and no one is allowed to register, submit assignments and impersonate you at any time.
6. Sending or receiving text messages during exams is forbidden, no cellphone or other device is allowed at any time during class, quizzes or an exam.

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. **Three (3) or more absences will result in a drop of one letter grade.** 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. No time should another student sign the class role for another student. If you are caught, by the instructor you will be reported to the proper authorities.

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):

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.

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. Emails must be polite and respectful, rude or foul language will not be responded to.

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. Emails must be polite at all times, rude or foul language will not be responded to.

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.

Instructor Advice: Sending or receiving text messages during exams is forbidden, no cellphone, smart watch, or other device is allowed at any time during class, quizzes or an exam unless permitted by the instructor. Cellphones must be turned off and stored during the length of the lecture. Anyone in violation will be reprimanded only once, if this behavior continues you may receive a grade reduction at the end of the semester without being informed.

I have read the syllabus and am aware of the content therein:

Name: _____