Class Syllabus  
Spring 2024  
CHEM 1311 501  
General Chemistry I

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Office: M 119  
Office (Student) Hours: MWF 9:00-10:30am; other times by appointment  
Class Hours: online

Text and Materials:  
Calculator with scientific notation.

COURSE CALENDAR:  
Material will be covered in the following section order with approximate class time. Exam schedule is tentative.

1  Matter and Measurement (1 lecture)  
2  Atoms, Molecules, and Ions (2 lectures)  
3  Stoichiometry (3 lectures)  
Exam #1 Feb 22, 2024

4  Reactions in Aqueous Solutions (3 lectures)  
10 Gases (2 lectures)  
5  Thermochemistry (2 lectures)  
Exam #2 April 4, 2024

6  Quantum Theory (3 lectures)  
7  Electron Configurations (2 lectures)  
8  Chemical Bonding I (3 lectures)  
9  Chemical Bonding II (3 lectures)  
Exam #3 May 2, 2024

11 Intermolecular Forces (2 lecture)  
13 Physical Properties of Solutions (1 lecture)

Comprehensive Final - During Finals Week
Grading Policy:

3-semester exams (100 points per exam): The exams will be given online. These will be through D2L and will be timed. Students have one week after the exam to discuss any questions of possible grading errors for regrading. There will be no make-up exams without approval of the instructor.

Final Exam (150 points): The final will be held during Finals Week. The final exam is a comprehensive exam. This exam will be given online.

Homework (150 points): Homework will be assigned using ALEKS. You must have a subscription to complete the homework. The due dates can be found on the ALEKS page and will be included on D2L.

Method of Evaluation: The final grade will be based upon percentage of points obtained in the following:

- exam 1 100 pts
- exam 2 100 pts
- exam 3 100 pts
- final exam 150 pts
- homework 150 pts
- Total 600 pts

Grading scale - A= 90 - 100%; B= 80 - 89%; C= 70 - 79%; D= 60 - 69%; F= below 60%

Attendance Policy:

Attendance of class is mandatory. A total of six unexcused absences will result in the student being dropped from the class with a grade of "F". There will be no make-up exams.

Absence Notification:

There is a new policy for the process of absence notification for students. This is through the Dean of Students Office and should be handled as follows:

1. Students are responsible for submitting faculty notification requests and providing supporting documentation substantiating the reason for requests. Requests with no supporting documentation will automatically be denied.
2. SFA's Student Outreach and Support will review documentation and assess validity. Upon review, SOS will determine the approval or denial of the faculty notification request.
3. SOS will notify students of the faculty notification request determination and will notify faculty members only of approved faculty notification requests.
4. It is the student’s responsibility to provide approved faculty notification requests to faculty members. Additionally, it is at the faculty member's discretion to honor approved circumstantial requests.

Academic Integrity (A-9.1):

The Code of Student Conduct and Academic Integrity outlines the prohibited conduct by any student enrolled in a course at SFA. It is the responsibility of all members of all faculty, staff, and students to adhere to and uphold this policy.

Articles IV, VI, and VII of the new Code of Student Conduct and Academic Integrity outline the violations and procedures concerning academic conduct, including cheating, plagiarism, collusion, and misrepresentation. Cheating includes, but is not limited to: (1) Copying from the test paper (or other assignment) of another student, (2) Possession and/or use during a test of materials that are not authorized by the person giving the test, (3) Using, obtaining, or attempting to obtain by any means the whole or any part of a non-administered test, test key, homework
solution, or computer program, or using a test that has been administered in prior classes or semesters without permission of the Faculty member, (4) Substituting for another person, or permitting another person to substitute for one’s self, to take a test, (5) Falsifying research data, laboratory reports, and/or other records or academic work offered for credit, (6) Using any sort of unauthorized resources or technology in completion of educational activities.

Plagiarism is the appropriation of material that is attributable in whole or in part to another source or the use of one’s own previous work in another context without citing that it was used previously, without any indication of the original source, including words, ideas, illustrations, structure, computer code, and other expression or media, and presenting that material as one’s own academic work being offered for credit or in conjunction with a program course or degree requirements.

Collusion is the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any provision of the rules on academic dishonesty, including disclosing and/or distributing the contents of an exam.

Misrepresentation is providing false grades or résumés; providing false or misleading information in an effort to receive a postponement or an extension on a test, quiz, or other assignment for the purpose of obtaining an academic or financial benefit for oneself or another individual or to injure another student academically or financially.

WITHHELD GRADES SEMESTER GRADES POLICY (A-54):
Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the coursework because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course to compute the grade point average. For additional information, go to https://www.sfasu.edu/policies/course-grades-5.5.pdf.

SEMESTER WITHDRAWALS: Last day to withdraw from the course without obtaining WP or WF grade is April 10th.

STUDENTS WITH DISABILITIES:
To obtain disability-related accommodations, alternate formats, and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services promptly may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/.

CLASSROOM BEHAVIOR POLICY:
To ensure a classroom environment conducive to learning, any forms of classroom disruptions will not be tolerated (examples but not limited to – talking, use of cell phones/beepers, sleeping, reading other material, eating/drinking). Students who violate these rules will be asked to leave. Repeat offenders will be subject to disciplinary action in accordance with University policies as described in the Code of
Student Conduct. The student code of conduct can be found at: [http://www.sfasu.edu/policies/student-code-of-conduct-10.4.pdf](http://www.sfasu.edu/policies/student-code-of-conduct-10.4.pdf)

**PROGRAM LEARNING OUTCOMES:**

There are no specific program learning outcomes for this major addressed in this course. This course is a general education core curriculum course.

**GENERAL EDUCATION CORE CURRICULUM OBJECTIVES:**

The Texas Higher Education Coordinating Board has identified six core learning objectives: Critical Thinking Skills, Communication Skills, Empirical and Quantitative Skills, Teamwork, Personal Responsibility, and Social Responsibility. SFA is committed to the improvement of its general education core curriculum by regular assessment of student performance on these six objectives. The chart below indicates the core objectives addressed by this course.

<table>
<thead>
<tr>
<th>Core Objective</th>
<th>Definition</th>
<th>Course Assignment Topics</th>
<th>Chapters</th>
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<tbody>
<tr>
<td>CO 1 -- Critical Thinking Skills</td>
<td>To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.</td>
<td>Classification of Reactions, Solubility Rules, Limiting Reactant, Lewis Diagrams, Valence Shell Electron Pair Repulsion Theory</td>
<td>3, 4, 8, 9</td>
</tr>
<tr>
<td>CO 2 -- Communication Skills</td>
<td>To include effective development, interpretation and expression of ideas though written, oral, and visual communication.</td>
<td>Developed in Laboratory</td>
<td></td>
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<tr>
<td>CO 3 -- Empirical and Quantitative Skills</td>
<td>To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.</td>
<td>Stoichiometry, Significant Figures, Thermodynamics, Gas Laws</td>
<td>1, 3, 5, 10</td>
</tr>
<tr>
<td>CO 4 -- Teamwork</td>
<td>To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.</td>
<td>Developed in Laboratory</td>
<td></td>
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**COURSE OBJECTIVE:**

To provide students with an explanation of the basic concepts of chemistry and to apply these concepts to problem solving involving critical thinking.

**STUDENT LEARNING OUTCOMES:**

Upon completion of this course, the students are expected to

- apply chemistry concepts using critical thinking skills and the scientific method to analyze and evaluate information to reach conclusions within problem sets and lab experiments. (COs 1 & 3)
- use communication skills to demonstrate their interpretation and analysis of scientific data and express their ideas and thoughts to team members. (CO 2)
- apply logic, quantitative reasoning, and pattern recognition to analyze and evaluate numerical data/observable facts to reach conclusions within problem sets and lab experiments. (COs 1 & 3)
- demonstrate the ability to cooperate within groups to gather results of an experiment, analyze data, and draw conclusions using communication skills. (COs 2 & 4)
**HOUR JUSTIFICATION:** This course is for 3 credits and spans 15 weeks and meets for 150 minutes a week. The course contains extensive content requiring students to prepare by completing the assigned weekly reading, homework, online content, etc. Students have significant weekly reading and homework assignments involving critical thinking and quantitative reasoning. Students are tested over the material via several exams during the semester including a comprehensive final exam. These activities average at a minimum 6 hours of work each week to prepare outside of time spent engaging with the content.

**EDUCATOR PREPARATION:**
This course meets educator preparation standards for one or more certification programs; a complete listing of all the educator preparation standards this course meets can be found at: https://sfasu.edu/docs/jacksteach/jacksteach-standards-alignment-chart.xlsx

**COVID-19 INFO:** Campus has returned to normal operations. The updated campus protocols can be found at https://www.sfasu.edu/covid19. Face coverings are not required but are suggested when found in public indoor settings. A student running a fever should attend class via Zoom and should NOT attend a face to face class.


**MENTAL HEALTH:**
SFA values students’ overall well-being, mental health and the role it plays in academic and overall student success. Students may experience stressors that can impact both their academic experience and their personal well-being. These may include academic pressure and challenges associated with relationships, emotional well-being, alcohol and other drugs, identities, finances, etc.

If you are experiencing concerns, seeking help, SFA provides a variety of resources to support students’ mental health and wellness. Many of these resources are free, and all of them are confidential.

**On-campus Resources:**
- **The Dean of Students Office** (Rusk Building, 3rd floor lobby)
  
  www.sfasu.edu/deanofstudents
  
  936.468.7249
  
  dos@sfasu.edu

- **SFA Human Services Counseling Clinic** Human Services, Room 202
  
  www.sfasu.edu/humanservices/139.asp
  
  936.468.1041

- **The Health and Wellness Hub** “The Hub”
  
  Location: corner of E. College and Raguet St.
  
  To support the health and well-being of every Lumberjack, the Health and Wellness Hub offers comprehensive services that treat the whole person – mind, body and spirit. Services include:

  - Health Services
  - Counseling Services
  - Student Outreach and Support
  - Food Pantry
  - Wellness Coaching
- Alcohol and Other Drug Education
  www.sfasu.edu/thehub
  936.468.4008
  thehub@sfasu.edu

Crisis Resources:
- Burke 24-hour crisis line: 1.800.392.8343
- National Suicide Crisis Prevention: text 988
- Suicide Prevention Lifeline: 1.800.273.TALK (8255)
- johCrisis Text Line: Text HELLO to 741-741

Instructor reserves the right to change the syllabus at any time.

**STUDENT HOURS:**
You can attend Student Hours either in person or on ZOOM. The ZOOM information is given below.

Join Zoom Meeting
https://sfasu.zoom.us/j/9734125921?pwd=ME11NEdNWUFOdVJCb2VILzVBaVRldz09

Meeting ID: 973 412 5921
Passcode: 382230