

knowledge outcomes

Upon completion of this course:

1. Students will be able to demonstrate a satisfactory understanding of chemical symbols, chemical nomenclature, chemical reactions as represented by chemical equations, and stoichiometry.
2. Students will be able to demonstrate a satisfactory understanding of aqueous solutions, electrolytes, solubility, and important types of chemical reactions in solution.
3. Students will be able to demonstrate a satisfactory understanding of the relationship between energy and chemical reactions.
4. Students will be able to demonstrate a satisfactory understanding of the structure of matter, the electronic structure of the atom, and the relationship of electronic structure to chemical properties and the Periodic Table.
5. Students will be able to demonstrate a satisfactory understanding of different types of chemical bonds which bind atoms together.
6. Students will be able to demonstrate a satisfactory understanding of the physical laws which govern the properties of gases and atmospheric chemistry.
7. Students will be able to demonstrate a satisfactory understanding of the solid and liquid states of matter.

skill outcomes

Upon completion of this course:

1. Students will be knowledgeable about chemical laboratory safety.
2. Students will be able to perform basic chemical observations and measurements.
3. Students will utilize dimensional analysis with correct significant figures.

value outcomes

Upon completion of this course:

Students will have an appreciation of the Scientific Method and the role of Chemistry in modern society.

- V. Unless otherwise stipulated in this master syllabus by the department, the following items are subject to faculty discretion as described in each faculty member's individual course outline/syllabus:
- a) Course Requirements? (grading/evaluation procedures; class attendance policy; term papers, projects, field assignments; examinations; class participation, etc.)

Grading Policy:

Please refer to the current University Catalog for additional information regarding grades and course withdrawal policies. For this course, your grade will be determined in the following manner:

Lecture Grade:	50%
(Instructor will determine requirements)	
Final Exam	25%
(Departmental)	
Laboratory Grade	25%
see Laboratory Manual	

Although the lecture and laboratory portions of the class are graded independently, satisfactory completion of both is considered essential for a lab science course. Therefore, a passing grade in both lab and lecture is required to pass the course.

b) Required Text(s)?

Required Texts and Materials:

CHEMISTRY - The Central Science by Brown, LeMay and Bursten. 9th ed.

(The homework/testing CD accompanying the text is also required).

GENERAL CHEMISTRY - Laboratory Manual, Department of Chemistry and Geosciences, Tarleton State University

Calculator - scientific type, nonprogrammable.

Protective eyewear for laboratory.

c) Bibliography?

Department Head Signature/Date:

Signature

_____/_____/_____
Date