

CHEM 1143-202, General Chemistry I Spring 2022 (MWF 8:00 – 8:50 am)

Instructor: Dr. J. SHAO

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(All teaching materials can be downloaded via D2L)

Office Hours: 9:00 am – 12:00 pm (TR) or by appointment

Text(s): Required: *CHEMISTRY: The Central Science. Brown, LeMay, Bursten, Murphy, Woodward and Stoltzfus, 14th ed.*
Recommended: Library reference materials, Student Solutions Guide

Prerequisites: Enrollment in Math 1233 (College Algebra) and High School Chemistry or 1103/1203 (Introduction to Chemistry)

Grading Procedure:

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|---------------------------------|-------------|
| 4 One-hour Exams @ 100 pts each | 400 (44.4%) |
| Final ACS Exam | 200 (22.2%) |
| 10 Homework Sets | 200 (22.2%) |
| Quizzes | 100 (11.2%) |

Grading Scale:

A: $\geq 90\%$; B: 80 – 89%; C: 70 – 79 %; D: 55 – 69 %; F < 55% (of total points)

Attendance Policy:

Attendance for this course is required as stated in the Student Handbook. Excessive unexcused absences will result in an instructor drop with a grade of “F”. If you are sick or positive in COVID-19, you can temporarily attend the class online via ZOOM. **Under no circumstances will make-up exams or extra assignments be given. Make-up for major exams will be given for excused absence only.**

Calculators:

Calculators with large memory capacity, mathematical solution software, and chemistry software are **NOT** allowed on exams. *The use of such a calculator on an exam constitutes cheating if the memory is NOT cleared.* Single line scientific calculators are acceptable.

General Education Statement:

Students in this course must demonstrate their competency in reading, writing, and fundamental math skills through satisfactory completion of all assignments.

Academic Dishonesty:

Cheating on any exam, quiz or lab report will be regarded as academic dishonesty and will be subject to a final course grade of “F”.

Tentative Lecture Schedule (changes may be made based on the teaching pace)

| Date(s) | Chapter | Topic |
|---------------------|-----------------|---|
| Jan. 10 – 19 | 1 | Introduction: Matter and Measurement |
| <i>Jan. 17</i> | <i>No Class</i> | <i>MLK Holiday</i> |
| Jan. 21 – 28 | 2 | Atoms, Molecules, and Ions |
| Jan. 31 | TEST 1 | Chapters 1 & 2 |
| Feb. 02 – 09 | 3 | Chemical Reactions and Reaction Stoichiometry |
| Feb. 11 – 18 | 4 | Reactions in Aqueous Solution |
| Feb. 21 – 25 | 10 | Gases |
| Feb. 28 | TEST 2 | Chapters 3, 4 & 10 |
| Mar. 02 – 09 | 5 | Thermochemistry |
| Mar. 11 – 25 | 6 | Electronic Structure of Atoms |
| <i>Mar. 14 - 18</i> | <i>No Class</i> | <i>Spring Break</i> |
| Mar. 28 – Apr. 04 | 7 | Periodic Properties of the Elements |
| Apr. 06 | TEST 3 | Chapters 5, 6 & 7 |
| Apr. 08 – 13 | 8 | Basic Concepts of Chemical Bonding |
| <i>Apr. 14 – 15</i> | <i>No Class</i> | <i>Holiday Break</i> |
| Apr. 18 – 27 | 9 | Molecular Geometry and Bonding Theories |
| Apr. 29 | TEST 4 | Chapters 8 & 9 |
| May. 04 | FINAL | Comprehensive ACS Final, 8:00 – 10:00 am (Bolin-304) |

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| Classes begin..... | January 10, 2022 |
| Martin Luther King’s Birthday - No classes..... | January 17, 2022 |
| Change of Schedule or Late Registration..... | January 10-13, 2022 |
| Deadline for May graduates to file for graduation..... | February 14, 2022 |
| Spring break..... | March 14-18, 2022 |
| Last day of drop for “W”, 4:00 pm | March 21, 2022 |
| Holiday break | April 14-15, 2022 |
| Last day of classes..... | April 29, 2022 |
| Final examinations..... | May 02-05, 2022 |
| Commencement..... | May 07, 2022 |

Student Resources:

https://msutexas.edu/academics/scienceandmath/student_resources.php

Campus-Carry Rules:

Senate Bill 11 passed by the 84th Texas Legislature allows licensed handgun holders to carry concealed handguns on campus, effective August 1, 2016. Area excluded from concealed carry are appropriately marked, in accordance with state law. For more information regarding campus carry, please refer to the University's webpage at <http://mwsu.edu/campus-carry/rules-policies>.