

## CHEM 1105: General Chemistry Lab I

University of Texas at El Paso (UTEP) | Spring 2026

### Instruccional Team

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### Course Description

UTEP CHEM 1105 is the first-semester general chemistry laboratory. The primary goal is to introduce general chemistry concepts through the scientific method, including matter components, stoichiometry, chemical reactions, thermochemistry, gases, and pH solutions.

### Learning Objectives:

- Recognize and manage laboratory hazards and chemical waste.
  - Master chemical principles and experimental methods for investigating substances.
  - Perform calculations involving atoms, molecules, moles, and mass.
  - Convert units, calculate concentrations/dilutions, and balance chemical reactions.
  - Classify precipitation and acid-base reactions and apply the Ideal Gas Law.
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### Required Materials

- **Lab Manual:** Access to the *LabFlow* platform:  
<https://courses.catalystedu.com/app/course/5453>  
(Access may be purchased online or via voucher from the UTEP Bookstore)
  - **Safety Gear:** Chemical splash goggles and a lab coat.
  - **Technology:** Computer equipped with a webcam and microphone (built-in or USB-connected) Scientific calculator.
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## Lab Policies & Safety

- **Attendance:** Mandatory. No make-up labs are available for missed experiments.
  - **Dress Code:** Long pants, long sleeves, and closed-toed shoes are mandatory. Leggings, shorts, sandals, and high heels are strictly prohibited.
  - **PPE:** Splash goggles and lab coats must be worn at all times.
  - **Electronics:** Cell phones and iPods are not permitted in the laboratory.
  - **Cleanliness:** Students are responsible for cleaning their workspaces before leaving.
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## Assignments & Grading

The final grade is based on a total of **355 points**.

Assessment Item	Points	Due Date
Practice Assignments (LabFlow)	15	Sunday after Welcome Session
Safety Quiz (LabFlow)	10	Sunday after Welcome Session
Math Quiz (LabFlow)	10	Sunday after Welcome Session
9 Pre-Labs	90	Day before lab, 11:59 PM
9 Lab Reports	180	By end of lab session
Syllabus Quiz (Blackboard)	20	After Welcome Session
Laboratory Rules Agreement (Blackboard)	10	After Welcome Session
Final Exam	20	Last week of term
<b>Total</b>	<b>355</b>	

### Grading Scale:

- **A:** 319–355 points (90–100%)
  - **B:** 284–318 points (80–89%)
  - **C:** 248–283 points (70–79%)
  - **D:** 213–247 points (60–69%)
  - **F:** < 213 points (< 59%)
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## Exam Protocols (Respondus LockDown Browser)

The final exam requires a webcam, microphone, and a secure testing environment.

- **Environment:** You must be alone in a quiet room. No headphones or talking allowed.
  - **Identity:** A photo ID must be shown to the camera.
  - **Materials:** Only a formula packet and scientific calculator are permitted (must be shown to the camera).
  - **Review:** Grades are pending until the instructor reviews the recorded video for compliance.
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## University Policies

- **Academic Integrity:** Academic dishonesty (cheating, plagiarism, data falsification) will not be tolerated and may lead to course failure.
  - **Accommodations:** Students with disabilities must register with CASS (915-747-5148 or [cass@utep.edu](mailto:cass@utep.edu)).
  - **COVID-19:** If ill, notify the instructor immediately and provide test documentation to arrange for missed work.
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## Schedule of Experiments

Week	Experiment
Jan 20–23	No Labs
Jan 26–30	Welcome Session
Feb 2–6	Experiment 1: Density and specific gravity
Feb 9–13	Experiment 2: Chemical Reactions
Feb 16–20	Experiment 3: Limiting Reactants
Feb 23–27	Experiment 4: Oxidation-Reduction Reactions
Mar 2–6	Experiment 5: Soluble and Insoluble salts
Mar 9–13	Experiment 6: Titration Determining the concentration of an acid
Mar 16–20	No Labs (Spring Break)
Mar 23–27	No Labs in observance of Cesar Chavez holiday
Mar 30–Apr 3	No Labs (Dead day)
Apr 6–10	Experiment 7: Ideal Gas Law
Apr 13–17	Experiment 8: Calorimetry
Apr 20–24	Experiment 9: Qualitative Analysis of Anions
Apr 27–29	Final Exam