

**Chemical Principles I**  
**Chemistry 1225**  
**Section H05**

**Instructor:** Dr. Kim Weaver

**Office:** Science Building Room 216

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**Laboratory Schedule:** Friday 11:00 a.m.- 2:00 p.m.-Science Building, Room 222

**Office Hours:** M T W 10:20-12:00 p.m. You are also welcome to “drop by”, if I am available, I will be glad to meet with you. I’m also available by appointment.

**Objective:**

1. General College of Science goal: “To help students develop skills in analysis, critical thinking, problem solving, and decision making by offering well-planned and pedagogically sound learning exercises in courses and in research projects.”
2. To demonstrate in practice the theoretical principles taught in CHEM 1210, such as chemical formulas and reactions, molar mass, limiting reactants, and periodicity.
3. To give students an opportunity to acquaint themselves with laboratory techniques and the rigor of scientific experimentation.

**Required Materials:** *"Experiments for Chemical Principles Lab 1225 Sixth Edition.*

Your own pair of safety goggles which are to be worn at all times. If you forget your goggles, you may; rent a pair at \$0.50 per day. There is no guarantee that goggles will be available. Anyone without eye protection will be asked to leave the lab and will receive a zero for the day’s lab. The student will be responsible for cleaning rented goggles both before and after use.

**Grading Policy:** Your grade will be based as follows:

Your grade will be based upon your completion of the lab preview and lab reports associated with each lab. Each Laboratory preview is worth 10 points and the report is worth 30 points. The final exam will be worth 100 points. You will be given a 5 pt. quiz every week. You are expected to keep a note book and hand it in at the end of the semester. Finally, You will do a special project worth 1 lab. You are expected to complete all labs scheduled this semester. Late lab assignments will be penalized 20% per week late.

Your grade will be assigned according as follows:

Percentage	Grade
90.0-100	A
86.5-90.0	A-
83.5-86.5	B+
80.0-83.5	B
76.5-80.0	B-
73.5-76.5	C+
70.0-73.5	C
65.0-70.0	C-
60.0-65.0	D+
<60	F

**Final Policy:** The final exam shall be comprehensive. I will expect you learn from each lab as there will be at least two questions per lab on the final. Many of these questions are “student generated”.

**Honesty Policy:** *Scholastic dishonesty will not be tolerated and will be prosecuted to the fullest extent. You are expected to have read and understood the current issue of the student handbook (published by Student Services) regarding student responsibilities and rights, and the intellectual property policy, for information about procedures and about what constitutes acceptable on-campus behavior*

**Americans with Disabilities Act:** *Students with medical, psychological, learning or other disabilities desiring academic adjustments, accommodations or auxiliary aids will need to contact the Southern Utah University Coordinator of Services for Students with Disabilities (SSD), in Room 206F of the Sharwan Smith Center or phone (435) 865-8022. SSD determines eligibility for and authorizes the provision of services.*

**Emergency Management Statement:**

*In case of emergency, the University's Emergency Notification System (ENS) will be activated. Students are encouraged to maintain updated contact information using the link on the homepage of the mySUU portal. In addition, students are encouraged to familiarize themselves with the Emergency Response Protocols posted in each classroom. Detailed information about the University's emergency management plan can be found at <http://www.suu.edu/ad/facilities/emergency-procedures.html>*

**Quizzes:** Quizzes will be given weekly to reinforce the concepts taught in class. They will be worth 5 points.

**Science Fair:** As a service learning activity, you will be expected to help with the SUU Science Fair. Participation will be worth 25 points.

**Statement of Risk:** *As with any activity there is inherent risk associated with travel to and participation in the special activities described in this syllabus and each student should be willing to accept and acknowledge such risk while participating.*

**Attendance Policy:** Weekly attendance is expected per the grading policy.

**Safety Policy:** You are expected to be familiar with the safety principles discussed in experiment 1 of the laboratory text and follow the guidelines listed.

**Disclaimer:** Information contained in this syllabus, other than grading, late assignments, makeup work, and attendance policies, may be subject to change with advance notice, as deemed appropriate by the instructor.

**Lab Schedule (May Be Modified as Needed)**

Week of:	Lab #	Title
Jan. 20	1	LAB CHECK-IN/Boiling Points
Jan. 27	10	Evaluating Sunscreen
Feb. 3	3	A Chloride Titration
Feb. 10	2	Freezing Points of Solutions
Feb. 17	4	Reaction Rates
Feb. 24	5	Rate Law Determination
Mar. 2	6	Le Châtelier's Principle
Mar. 9	7	Acid Base Identification
Mar. 16		NO LAB-SCIENCE FAIR
Mar. 23		NO LAB—SPRING RECESS —
Mar. 30	8	Acid Base Titrations
Apr. 11	9	Buffers Lab
Apr. 18	11	Electrochemistry
Apr. 25	12	Electrolysis LAB CHECK-OUT LAB FINAL