

## Introduction to Chemistry LAB (CHEM 1106)

**Credit:** 1 semester credit hour (2 hours lab)

**Prerequisite:** MATH 1332; Co-requisite: CHEM 1306



### Course Description

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for allied health students and for students who are not science majors.

### Required Textbook and Materials

1. Pens or pencils and calculator.
2. Safety glasses or goggles.

### Course Objectives

Upon completion of this course, the student will be able to:

1. Understand and demonstrate laboratory skills related to chemistry principles.

### CORE Objectives

1. Critical Thinking: to include creative thinking, innovation, inquiry, and analysis
2. Communication: to include effective development, interpretation and expression of ideas through written, oral and visual communications
3. Empirical and Quantitative Skills: to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
4. Teamwork: to include the ability to consider different points of view, and to work effectively with others to support a shared purpose or goal

### Grading Scale

90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
00 – 59	F

### Course Evaluation

1. Final grades will be calculated by averaging the grades for all laboratory assignments.
2. The lowest lab grade will be dropped from the final average.

### Course Requirements

1. Complete all laboratory assignments.

### Course Policies

1. Students are expected to stay for the full duration of the lab period or until all data is taken, calculations are performed and the lab assignment is turned in. Reports are to be

neat and complete. DO NOT USE RED INK. Corrections should be made by a single line through the incorrect data and the correction entered next to the old data.

2. Students will not be automatically dropped from the class due to poor attendance or grades. Discontinuing class attendance without properly submitting a drop request will result in a failing grade (F).
3. Safety rules must be abided by at all times. Any student who continually breaks the safety rules will be removed from the class to insure the safety of the other students in the class.
4. All beepers and cell phones need to be turned off unless prior approval has been given by instructor to have them set to vibrate.
5. Children are not allowed in either the laboratory at any time.
6. No food, drinks, or use of tobacco products in class.
7. Missed labs may be made up within one week without penalty at the instructor's discretion. Labs not made up within two weeks will result in a grade of zero (0). A lab that is one day to one week late will incur a 20 point penalty. A lab that is more than one week, but less than two weeks late will incur a 50 point penalty. At the end of the semester, three missed labs (grades of 0) will result in an automatic failing grade (F) for the course.

### Disabilities Statement

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the office in Student Services, Cecil Beeson Building.

### Course Schedule:

Week of	Topic
Week 1	The Bunsen Burner
Week 2	Measurement and Separation Methods
Week 3	Density
Week 4	Separation of a Mixture
Week 5	Cation and Anion Tests
Week 6	Covalent Bonding and Molecular Models
Week 7	A Series of Copper Reactions
Week 8	Single and Double Replacement Reactions
Week 9	Law of Definite Composition
Week 10	Composition of Hydrates
Week 11	pH

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Course Syllabi

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Week 12	Hydrocarbons
Week 13	Hydrocarbon Derivatives
Week 14	Chemical Research Lab and Presentation

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\*Instructor reserves the right to make changes.

**Contact Information Varies by Instructor**