

Chemistry 1121- General Chemistry Lab (one credit)
Fall 2021

Instructor:

Office Hours: Zoom meeting by appointment only

Course Description: The course describes the general concepts and fundamental principles of chemistry in the lab. The experiments are selected to familiarize students with molecular geometry, x-ray crystallography, freezing point depression, water hardness, LeChatleier's principle, DNA binding constant, solubility product of insoluble compounds, nuclear chemistry, and qualitative analysis of cations.

.No lab manual is required!

Academic Honesty:

The exams and quizzes must be your own work. Any incidence of cheating on exams or assignments will be treated seriously and according to the ETSU Honor Code.

ETSU Honor Code: "..... Penalties for academic misconduct will vary with the seriousness of the offense and may include, but are not limited to a grade "F" on the work in question, a grade of F for the course, reprimand, probation, suspension, and expulsion. For a second academic misconduct offense, the penalty is permanent expulsion."

Electronic Devices:

With the exception of a non-programable scientific calculator, no electronic device shall be in use by, and/or in the possession of, the student while taking the exam.

Grading:

- The experiments are not considered complete until all parts of the report are turned in.
- The assignment turned in late will be penalized by 50%.for the first 24 hrs. A grade of zero will be assigned beyond 24 hrs.

Thirty five percent of the lab grade is based on the lab final: the 65% includes the lab work.

Grading Scale:

The grade breakdown is listed below:

A	91-100%
A-	86-90.9%
B+	82-85.9%
B	78-81.9%
B-	74-77.9%
C+	70-73.9%
C	66—69.9%
C-	62-65.9%
D+	58-61.9%
D	54-57.9%
F	<54%

Special Needs: Students, who have need for test-taking or note-taking accommodation, please discuss it with me.

Laboratory Schedule

Due

Assignment

February 7

Exp. 13: Molecular Geometry

February 14

Exp. 14: x-Ray Crystallography

February 24

Exp. 15: Freezing Point Depression

March 3

Exp. 16: Water Hardness

March 10

Exp. 18: Qualitative Aspects of Equilibrium

March 21

Exp. 19: DNA Binding Constant

March 28

Exp. 20: The Solubility Product Constant of Insoluble Ionic Compounds

April 4

Exp. 21: Qualitative Analysis

April 12

Nuclear Chemistry

April 19

Lab Final (6-10 pm EST)

