

Mayville State University

General Chemistry I Lab, CHEM 121L

Fall 2025
1 Credit Hour

Course and Instructor Information

Instructor Name: Michael Keating

Contact Information: michael.keating@ndus.edu

Hours of Availability: Thursday 8:00 AM – Noon or by arrangement

Instructional Mode: On-campus face-to-face

Course Dates: August 28 – December 11, 2025

Time Zone: All times indicated throughout this syllabus reflect Central Time (CT)

Meeting Times and/or Location: Thursday 8:00 – 9:50 AM or 10:00 – 11:50 AM SB 128

Final Exam Time and Location: December 11, 2025 SB 128

Course Materials and Technologies

All required lab materials will be either posted on Blackboard or brought to class by the instructor. Copies of the lab handbook are available in the lab.

Required

[MSU Technology Requirements](#)

Access to your computer with Microsoft Excel and/or a calculator will be necessary for many of the labs.

Use of Artificial Intelligence in this Course

None

Course Description

Laboratory to accompany Chemistry 121.

Pre-/Co-requisites: No Pre-requisites are required/CHEM 121.

Course Objectives

As aligned to Composite Science Education Program Approval Standards through North Dakota's [Education Standards and Practices Board](#)):

- The Chemistry 121L lab is designed to help the students grasp the fundamentals of chemistry from a hands-on approach.

Standards Alignment (Composite Science Education Program Approval Standards-ND ESPB):

- 13047.1 Composite Science Major/General Science The composite/general science program requires that environmental science be incorporated within other courses or as a separate course. The composite/general science program requires: 1. Coursework in biology, chemistry, physics, and earth science, including: a. Minimum of twenty four semester hours in one area, b. Minimum of twelve semester hours in two other areas, c. Minimum of four semester hours in the fourth area, d. Courses must be from those that the institution allows toward graduation in the science major. 2. Study of mathematics through the pre-calculus level (college algebra and above) and statistics
- 13047.3 Inquiry The program requires study of the processes of science common to all scientific fields.

Mayville State University

Course Expectations

Instructor/Student Communication

Students are accountable for all academic communications sent to their Mayville State University email address. All communication outside of class hours will be sent to students via email.

Assignments and Assessments

Lab work is due at the beginning of the next lab period following the completion of an experiment. The lab work submitted to the instructor will be evaluated based on data compiled, the data analysis performed, and the quality of the answers provided. Each group is expected to turn in a completed lab each week.

Evaluation and Grading

Grading Policies

The instructor will post grades on Blackboard within a week of the submission deadline. Submitted coursework will not be returned to students.

Attendance/Participation Policies

Attendance at all lab periods is expected unless prior arrangements are made, and all members of a lab group are expected to contribute equally to the completion of lab exercises. Make up labs will be allowed solely at the discretion of the instructor and must be completed by December 11.

Grading Scale

Grade scale A > 90% B > 80% C > 70% D > 60% F < 60%

Breakdown of Grades

Lab Activities 80%

- Each weekly lab will be worth 10 points with the scoring broken down as follows:
 - 5 total points for the physical completion of the lab activity including the setup, the lab itself, and the cleanup
 - 5 total points for the data collected and data analysis
- Lab handouts need to be handed in complete including but not limited to data collected, observations, calculations, conclusions and pre and post lab questions.
- Students only receive credit for lab work completed and handed in to the instructor. (no credit will be given if a lab is performed, but no paperwork is submitted)
- Lab work submitted late is subject to a 10% penalty.

Lab Report 10%

- The formal lab report will be completed using the data from "Analysis of Copper (II) Glycinate with Thiosulfate Standardization". This is subject to the same late penalty as the lab activities.

Lab Final 10%

Mayville State University

Enrollment Verification

On-Campus Course Statement

The U.S. Department of Education requires instructors to conduct an activity which will validate student enrollment in this course. Class attendance will be used to verify enrollment in on-campus courses. If you do not attend, your enrollment in this course will be at risk.

Important Student Information

In the Help & Resources for Students section of the Blackboard Institution Page, you can view and download the Important Student Information document for the current academic year. It includes information about:

- ✓ Land Acknowledgement Statement
- ✓ Academic Grievance Concerns and Instructor English Proficiency
- ✓ NetTutor - Online Tutoring Program
- ✓ Starfish - Student Success System
- ✓ Students with Documented Disabilities
- ✓ Student Learning Outcomes / Essential Learning Outcomes
- ✓ Academic Honesty
- ✓ Emergency Notification
- ✓ Continuity of Academic Instruction for a Pandemic or Emergency
- ✓ Family Educational Rights and Privacy Act of 1974 (FERPA)
- ✓ Diversity Statement (Title IX)

Course Timeline/Schedule

Date	Activity
8/28	Lab 1
9/4	Lab 2
9/11	Lab 3
9/18	Lab 4
9/25	Lab 5
10/2	Lab 6
10/9	Lab 7
10/16	Lab 8
10/23	Lab 9
10/30	Lab 10 / Formal Lab Report assigned
11/6	Lab 11
11/13	Lab 12 / Formal Lab Report due
11/20	Lab 13
11/27	Thanksgiving
12/4	Lab 14

Mayville State University

12/11	Lab Final
-------	-----------

Course Timeline and Schedule are subject to change as deemed necessary by the instructor.