

Mayville State University

CHEM 122 General Chemistry II Online

Spring 2025
Credit Hours: 3

Course and Instructor Information

Instructor Name: Jeff Hovde

Contact Information:

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Hours of Availability: By appointment

Instruction Mode: online asynchronous

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

Course Materials and Technologies

Required

Jill Kirsten Robinson, et al. *Chemistry, Loose-Leaf Edition*. 8th ed., Pearson, 4 Jan. 2019.

Internet connectivity is required. Course materials are available in MSU's current learning management system and web-based homework system, Achieve Learning.

Achieve Essentials Access Course Code: 62tjgr

Course Description

A beginning chemistry course designed to be the second semester of the two-semester general chemistry sequence. This course covers topics of physical states, solutions, reaction rates and mechanisms, chemical equilibrium, acid-base chemistry, thermodynamics, and electrochemistry. Recommended to take corresponding Lab

Prerequisite: Chem 121

Course Objectives

The objectives for the course, as aligned to Composite Science Education Program Approval Standards through North Dakota's Education Standards and Practices Board ([ND ESPB](#)), are:

- 1) Study and acquire basic knowledge of those aspects of chemistry that occur naturally in our universe and on our planet. Those aspects will include:
 - a) Stoichiometry

Mayville State University

- b) Equilibriums
 - c) Acids and Bases
 - d) Thermodynamics
 - e) Chemical Kinetics
- 2) Identify chemical substances and reactions
 - 3) Compare and contrast chemical processes and reactions
 - 4) Calculate chemical equations and reactions

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
- 13047.2 Nature of Science The program requires study of the history and philosophy of science as well as the interrelationships among the sciences.
- 13047.4 Context of Science The program requires the study of the effect of social and technological context on the study of science and on the application and valuing of scientific knowledge. The program prepares candidates to relate science to the daily lives and interests of students and to a larger framework of human endeavor and understanding. The program provides the candidate with an understanding of the relationship of science to industry, business, government, and multicultural aspects of a variety of communities.

Course Expectations

Assignments will be given via the Detailed Schedule. Submit all assignments in Blackboard and Achieve on designated due dates.

There will be NO make-up exams or quizzes unless I have been contacted prior to the day of the test with a valid excuse. There are very few valid excuses so do not assume that your excuse is sufficient.

Instructor/Student Communication

Students are accountable for all academic communications sent to their Mayville State University email address.

Do not email me to inform me of the grade that you need for the course.

I will reply to all student emails within 48 hours. Email is the best way to contact me.

Assignments and Assessments

All assignments are to be completed by, and only by, the person who is registered for the course.

Evaluation and Grading

Grading Policies

I will grade all work within 1 week.

Mayville State University

Attendance/Participation Policies

Attendance will not be graded.

Grading Scale

90 – 100%	A
80 – 89.9%	B
70 – 79.9%	C
60 – 69.9%	D

Breakdown of Grades

Homework: 180 pts

Tests: 230 pts

Introduction Forum 10 pts

Total Points: 420 pts

Enrollment Verification

Online Course Statement

The U.S. Department of Education requires instructors of online courses to provide an activity which will validate student enrollment in this course. The only way to verify that a student has been in this course is if he, she, or they perform an action in the LMS, such as completing an assignment or taking a quiz.

Logging into the LMS is **NOT** considered active course participation. Please complete the designated enrollment verification activity by the date indicated. If it is not complete your enrollment in this course will be at risk.

Location: Blackboard

Title: Introduction Forum

Due date: see course timeline and schedule

Proctor Notification

No proctors are required for this course.

Important Student Information

In the Announcements 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

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- ✓ 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

The following is a schedule of due dates.

Introduction Forum	January 17 th	On Blackboard	11:59p.m. cst
HW #13	January 22 nd	On Sapling	11:59p.m. cst
Quiz #1	January 25 th	On Blackboard	11:59p.m. cst
Exam 1	January 31 st	On Blackboard	11:59p.m. cst
HW #14	February 18 th	On Sapling	11:59p.m. cst
HW #15	February 28 th	On Sapling	11:59p.m. cst
Quiz #2	March 4 th	On Blackboard	11:59p.m. cst
Exam 2	March 8 th	On Blackboard	11:59p.m. cst
HW #16	April 4 th	On Sapling	11:59p.m. cst
HW #17	April 18 th	On Sapling	11:59p.m. cst
Quiz #3	April 25 th	On Blackboard	11:59p.m. cst
Exam 3	May 1 st	On Blackboard	11:59p.m. cst
Final Exam	May 10 th	On Blackboard	11:59p.m. cst

The above schedule and procedures in this course are subject to change with prior notice given to students in the event of extenuating circumstances.

Essential Studies

As part of Mayville State University's Essential Studies curriculum, this course seeks to prepare students for twenty-first century challenges by gaining: 1) Knowledge of human cultures; 2) Intellectual and practical skills; 3) Personal and social responsibility; 4) Integrative and applied learning.