MAYVILLE STATE UNIVERSITY

CHEM 121 General Chemistry I Online

Jeff Hovde

Fall 2020

Semester Hours: 3

Contact Info:

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Hours of availability: By appointment
Instruction Mode: Online asynchronous
Time Zone: Central Standard Time

Course Description: The CHEM 121/122-course sequence is intended to be an introduction to the basic concepts of chemistry. In CHEM 121 we will study the basic properties of atoms and how they bond together to form compounds and molecules. We will look at the characteristics of these compounds/molecules, name them, and predict bot products and quantities that come from chemical reactions.

Good thinking is practical. No matter what your circumstances or what your aims; you are better off if your thinking is sound. As a shopper, teacher, student, businessperson, citizen, friend, or parent good thinking pays off. Critical thinking is the art of ensuring that you use the best thinking of which you are capable given a set of circumstances. Critical thinking will be incorporated throughout the course – often implicitly. A critical thinker considers the elements of reasoning – purpose of the thinking, the question at issue *(the problem)*, information *(data, observations, and experiences)*, inferences *(conclusions, possible solutions)*, concepts *(theories, definitions, models)*, assumptions *(presuppositions)*, consequences, and points of view *(perspective, frame of reference)*. Critical thinking is often judged against universal standards – clarity *(state, elaborate, illustrate, exemplify)*, accuracy, precision, relevance, depth, and breadth.

Purpose of the Course

The purposes of General Chemistry I include meeting the expectations of a MSU and North Dakota University System 'general education laboratory science' requirement and System 'common course', developing an understanding of basic inorganic chemistry principles, laying the foundation for future chemistry and science courses, and developing a general appreciation of chemistry (and science) and its role in today's society.

Course Objectives

The objectives for the course 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) Scientific Method
b) Atom and molecules
c) Bonding
d) Chemical Reactivity

2) Practice communication and recording skills
3) Ability to work independently

Program Student Learning Outcomes Addressed in This Course

The Academic Program Student Learning Outcomes document can be found in your course shell. It contains all learning outcomes pertaining to Essential Studies courses and all majors and minors. The document has an index, so you can quickly find the degree you are pursuing.

As part of Mayville State's effort to demonstrate continuous improvement in achieving student learning outcomes, this course:

☒ introduces SLO # 1 ☐ reinforces SLO # ☐ masters SLO # For Major / Minor: Chemistry	☒ introduces SLO #3 ☐ reinforces SLO # ☐ masters SLO # For Major / Minor: Chemistry	☐ introduces SLO # 4 ☐ reinforces SLO # ☐ masters SLO # For Major / Minor:	☐ introduces SLO # ☐ reinforces SLO # ☐ masters SLO # For Major / Minor:

As part of Mayville State's effort to demonstrate continuous improvement in achieving Essential Studies Learning Outcomes, this course will assess

ELO # ☐1 ☐2 ☐3 ☐4

as part of the Essential Studies and Capstone Courses. 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.

The assessment activity will involve essay questions.

Course Improvements Based on Most Recent Assessment Findings

This course will be assessed in the future (based on the 2019-2025 assessment curriculum map) and the findings will be reported in this syllabus.

Required Materials

(Text) **General Chemistry,** 4th Edition (2011), McQuarrie, DA, Rock, PA and Gallogly, EB, University Science Books, Mill Valley, CA.

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

Sapling learning access

Please go to www.saplinglearning.com/login to log in or create an account. The following link includes detailed instructions on how to register for your course: https://community.macmillan.com/docs/DOC-5972-sapling-learning-registering-for-courses.

Please choose ONLINE as a key code during enrollment.

During sign up or throughout the term, if you have any technical problems or system questions please fill out the support request form, located in the College Student Support Community, https://community.macmillan.com/community/digital-product-support/college-students-support-community, for direct assistance.

Study Aids:
Student's Solutions Manual to Accompany General Chemistry, 4th Edition (2011), McQuarrie, CH, University Science Books, Mill Valley, CA. (recommended/not required)

Learning Experiences

- Assignments will be given via the Detailed Schedule. Submit all assignments in Blackboard or Sapling on designated due dates.

Expectations/Protocols

There will be NO make-up quizzes or tests given 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.

I do not accept any late work.

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

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

Instructor/Student Communication

- Students are accountable for all academic communications sent to their Mayville State University e-mail address.
- I accept no late work and give no make-up exams.
- I will grade your work within 1 week.
- Assignments are not weighted.
- I will communicate through email and announcements in Blackboard.

Course Grading:
Homework: 292 pts
Tests: 257 pts
Introduction Forum 10 pts

Quizzes: 66pts
Total Points: 420 pts
90 – 100% A
80 – 89.9% B
70 – 79.9% C
60 – 69.9% D

Enrollment Verification
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 or she takes an *action* in Blackboard, such as completing an assignment or a taking a quiz. Logging into Blackboard is **NOT** considered attendance. Please see my enrollment verification activity and complete it by the date indicated. If it is not complete your enrollment in this course will be at risk.

Proctor Notification:
All exams will be completed using the program Yuja as your proctor.

Important Student Information
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Navigate to Blackboard > MaSU tab > Student Resources tab to find a document entitled, "Important Student Information," which includes information about:

- ✓ Academic Grievance Concerns and Instructor English Proficiency
- ✓ Starfish - Student Success System
- ✓ Students with Documented Disabilities
- ✓ Academic Honesty
- ✓ Emergency Notification
- ✓ Continuity of Academic Instruction for a Pandemic or Emergency
- ✓ Family Educational Rights and Privacy Act of 1974 (FERPA)
- ✓ Diversity Statement

A listing of important University policies related to courses and coursework, *Important Student Information*, is posted on the class Blackboard site.

Course Timeline/Schedule:

The following is a schedule of due dates.

Introduction Forum	September 4th	On Blackboard	11:59p.m. cst
HW #1	September 11th	On Sapling	11:59p.m. cst
HW #2	September 11th	On Sapling	11:59p.m. cst
HW #3	September 18th	On Sapling	11:59p.m. cst
HW #4	September 18th	On Sapling	11:59p.m. cst
Exam 1	September 21st	On Blackboard	11:59p.m. cst
HW #5	October 9th	On Sapling	11:59p.m. cst
Quiz #1	October 9th	On Blackboard	11:59p.m. cst
HW #6	October 9th	On Sapling	11:59p.m. cst
Quiz #2	October 16th	On Blackboard	11:59p.m. cst
HW #7	October 16th	On Sapling	11:59p.m. cst
Exam 2	October 19th	On Blackboard	11:59p.m. cst
HW #8	November 6th	On Sapling	11:59p.m. cst
Quiz #3	November 6th	On Blackboard	11:59p.m. cst
HW #9	November 8th	On Sapling	11:59p.m. cst
Quiz #4	November 8th	On Blackboard	11:59p.m. cst
HW #10	November 8th	On Sapling	11:59p.m. cst
Exam 3	November 16th	On Blackboard	11:59p.m. cst
HW #11	December 5th	On Sapling	11:59p.m. cst
Quiz #5	December 11th	On Blackboard	11:59p.m. cst
HW #12	December 11th	On Sapling	11:59p.m. cst
HW #13	December 17th	On Sapling	11:59p.m. cst
Exam 4	December 18th	On Blackboard	11:59p.m. cst

Final Test: There will be no cumulative final test. Your last exam will be Exam 4.

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