

Chemistry Syllabus

Course Syllabus for 2026 - 2027

Instructor: Logan Kiesewetter

Office Hours: M-F 7:45 am - 3:45 pm.

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TEXT: Zumdahl, Steven S., Susan A. Zumdahl, Donald J. DeCoste. *World of Chemistry*. 4th Edition. 2021 - **Available as a textbook or electronic document**

DESCRIPTION:

This course studies several different aspects of chemistry. General topics include the makeup of atoms, molecular bonding, chemical reactions, stoichiometry, acids and bases, The course also includes laboratory exercises, group activities, and opportunities for projects. Emphasis in the course is focused on cooperative learning and problem solving.

Course Objectives:

Course Objectives follow the Nebraska State Science Standards for Chemistry

These can be found at the following link:

https://www.education.ne.gov/wp-content/uploads/2025/09/Nebraska-Science-Standards_12-17-24-Update-003.pdf

REQUIREMENTS and EXPECTATIONS:

- Completed academic requirements to be in the class
- Come to class prepared for the day
- Do all work assigned.
- Participate in labs and class discussions.
- Review *Late work* and *Absent Rules*
- Review *Chemical & Lab Safety Rules* before lab days, ALL MANDATORY PPE MUST BE WORN
- Review *Student Handbook*
- Cell phones can either be kept in a locker or in an assigned storage area
- No electronic devices (such as earbuds, etc.) will be allowed at desk unless designated
- Exams will be on paper so bring a writing utensil on test days unless exceptions are in place. Additionally, only bring necessary materials to your desk and leave your backpack at the front of the room.
- Class work may consist of lecture notes, daily or vocabulary quizzes, labs, exams, discussions, or combinations of these.

SUGGESTED REQUIREMENTS:

- Binder for overall organization
- 1 Single Subject College Rule Notebook or Folder
used exclusively for lab safety notes
- Writing Utensil

- Scientific calculator
- Computer or Book
- Access to Internet outside of school - *please let me know if this is not easily accessible*
- Appropriate attire for labs and activities.

TOPICS COVERED WILL INCLUDE BUT ARE NOT LIMITED TO:

- Matter and Change
- Measurement and Calculations
- Atoms: The Building Blocks of Matter
- Arrangement of Electrons on Atoms
- The Periodic Law
- Chemical Bonding
- Chemical Formulas and Chemical Compounds
- Chemical Equations and Reactions
- Stoichiometry
- States of Matter
- Gases
- Solutions
- Ions in Aqueous Solutions and Colligative Properties
- Acids and Bases
- Acid-Base Titration and pH
- Reaction Energy

If time allows....

- Reaction Kinetics
- Chemical Equilibrium
- Oxidation-Reduction Reactions
- Electrochemistry
- Nuclear Chemistry
- Organic Chemistry
- Biological Chemistry

Labs & Projects:

- Named at a later date

GRADES:

Standard grading scale will be used. The grading scale is in your handbook.

EVALUATION:

Students will be evaluated based on your performance on:

Quarter (45%) + Quarter (45%) + Sem Final (10%)= 100% Semester

Quarter grades are calculated by:

tests and quizzes - 50%

labs and projects 35%

daily practice - 15%

LATE ASSIGNMENTS (Not tests and quizzes):

10% will be subtracted from any assignment turned in late once a 0 has been entered. An additional 15% will be taken off for the next 2 days, then after that the assignment can be turned in for a max of 50%.

Cheating/Plagiarism:

Cheating or plagiarism will not be tolerated. Each student is responsible for doing his or her work. Students who violate this policy will be subject to receiving a zero for the assignment or test, quiz, or examination, etc., and MAY face additional disciplinary action. Students who continue to cheat or plagiarize may be subject to further discipline. Use of AI generated material is NOT allowed and will be counted as cheating. Please follow the guidelines and definitions as written in the Student Code of Conduct.

IF YOU ARE ABSENT:

GENERAL ABSENCES: Illness or other unplanned absence

- Please send me an email to notify me of your unplanned absence. I will work with you depending on where we are in the class. General rules are described below but can be subject to change.

For the following that was missed:

1. HOMEWORK: Come in before or after school to ask the teacher what you have missed. It is the student's responsibility to turn in the makeup work as soon as possible (follow the 2 days rule- 2 days to make up the work for each day of absence) It is the student's responsibility to reach out and get the assignment before the event. Assignment must be completed within 2 days after the event or will follow the late assignments rule.
2. LABS: All labs must be made up before or after school. (No exceptions!)
3. TEST: It is the student's responsibility to find a time to make up the test. Tests must be made up in 2 days.

COMMUNICATION IS KEY: Please communicate and we will work out a plan to make up the work.

EXTRA-CURRICULAR ABSENCE: Activities, athletics, competitions, etc.

- Please send me an email to notify me of your absence prior to the event. I will work with you depending on where we are in the class. General rules are described below but can be subject to change.

For the following that was missed:

4. HOMEWORK: It is the student's responsibility to reach out and get the assignment before the event. It is the student's responsibility to reach out and get the assignment before the event. Assignment must be completed within 2 days after the event or will follow the late assignments rule.
5. LABS: All labs must be made up before or after school. (No exceptions!)

6. TEST: It is the student's responsibility to find a time to make up the test. Tests must be made up prior to the event.

COMMUNICATION IS KEY: Please communicate and we will work out a plan to make up the work. The earlier I am aware, the better.

CHEMICAL & LAB SAFETY

We will be performing laboratory experiments throughout the year, and certain safety requirements must be followed. *The following steps will ensure that you minimize the risk of injury or chemical exposure when performing labs.*

Safety Procedures:

1. Waft a chemical only when asked to do so. Never taste or directly smell a chemical - *this will avoid a direct chemical burn to the nose and throat*
2. ALWAYS wear goggles and other safety equipment when directed to do so - *this will help prevent chemical exposure*
3. Tie back long hair during lab days - *this prevents you from burning yourself with chemicals from your hair and prevents your hair from catching on fire*
4. Wear appropriate clothing for lab day including long pants, closed toe and heel shoes, shirts that cover the shoulder and midriff - *this helps to prevent burns from chemicals and from fire*
5. Behave cautiously and appropriately in the classroom - *double check everything before use and clean up afterward*
6. Report injuries or medical conditions/problems to your teacher immediately
7. Perform only those experiments you are directed by your teacher to perform.
8. Report accidents and broken equipment to the teacher immediately - *do not panic in case of accidents, accidents in the lab happen all the time*
9. Return all equipment or supplies to their proper location.
10. Keep your hands away from your face, mouth, and eyes during lab.
11. Clean the table and other lab areas with cleaning spray and paper towels after cleaning up your supplies.
12. Wash hands before leaving lab - *to avoid contamination of personal belongings*
13. Each student must hand in their own work (unless specifically told otherwise), even when working in groups.
14. During labs, only bring necessary materials to your desk and leave your backpack at the front of the room.

15. Food and drinks should be kept in your backpack during lab time. If you need to take a drink, please wash your hands and come to the front of the room.

*If you wear contacts, it is highly recommended that you remove them for lab days and wear glasses instead. Contacts, especially soft contacts, hold in chemicals and fumes, which can be irritating or damaging to the eye. These are worn at your own risk.

**Students who are or become pregnant during the course of the school-year should report this condition to their science teachers because some chemicals should be avoided. Alternative activities may be assigned to pregnant students. The student's information will be kept confidential.

***FAILURE TO WEAR THE PROTECTIVE CLOTHING INDICATED MAY RESULT IN SKIN IRRITATION OR INJURY! Furthermore, you understand that there is a possibility that your clothes may be damaged during lab. Please dress appropriately for chemistry class.

STUDENT AND PARENT CONSENT/ACKNOWLEDGEMENT for MR. KIESEWETTER's CHEMISTRY CLASS

By signing this paper the student agrees to be held accountable for all the expectations and rules set forth in this syllabus and lab safety for Mr. Kiesewetter's Chemistry class. Violations of rules will result in disciplinary action as outlined in the Student Handbook and the Student Code of Conduct.

Take this syllabus home and go over it with your parents. After you and your parents have carefully read it and understand it, please sign and return it.

PARENTS/GUARDIANS: If your child falls behind with his/her classwork, you will be contacted. If your child causes repeated problems in class, you will be contacted and asked to come in for a meeting to resolve this issue.

Failure to sign and return this does not preclude the student from the expectations set forth.

Student: _____ (print)

Student: _____ (sign) Date: _____

Parent/Guardian _____ (print)

Parent/Guardian _____ (sign)

Date: _____