

Chemistry Syllabus

Mr Long (dlong@eriesd.org)

Erie High RM B211

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Extra Help: Wednesdays from 3:40-4:10 PM or by appointment as needed.

Welcome to my classes!

Chemistry is the study of the substances that make up everything in the universe and how they interact with each other. A basic understanding of chemistry is helpful in a wide range of careers, from medicine to carpentry, protective services to cosmetology. The study of chemistry also helps us build language and mathematics skills that are essential to these and other fields.

Materials needed for each class:

Your chromebook
A writing utensil

Classroom rules and procedures

- 1) Arrive on time
- 2) Sit in your assigned seat
- 3) Take headphones and earbuds off
- 4) Turn off or mute electronic devices **before** you enter the classroom
- 5) Electronic devices other than your chromebook should be put away during class.
- 6) No food is allowed in the classroom or lab areas.
- 7) IF we are **not** performing a lab, covered beverages are allowed in the classroom area.
- 8) All lab safety rules must be followed in the lab area or you may be removed from the lab and receive no credit for that lab activity.

Consequences for violations of these rules will begin with a verbal warning, followed by parental contact and teacher detention, then administrative referral. Chronic problem behaviors will be noted in my daily attendance log and will result in a deduction from the points toward your final grade.

Grading and Course work:

Your grade will be calculated using a total points system. Each assignment will be given a point value depending upon the complexity and number of questions.

DoNow

At the beginning of many class periods, you will be asked to answer a question or two within the first 5 minutes of class. This will be a formative assessment, meant to give me an accurate picture of the class's knowledge of the question(s) so I know how to direct the day's lesson. Give the best answer you can, even if you have to guess. Do not "google it" or copy your neighbors' answers. You get credit for giving your best honest effort. "IDK" will get you no credit.

Class work

Classroom assignments will include group projects, textbook readings, notes, worksheets, and more. All class work should be turned in at the end of the period to be checked for completion and/or accuracy.

Labs

In the lab, we will make direct observations and measurements of substances and their interactions. Many of these lab procedures involve safety hazards, so it is critical that you follow lab safety rules and procedures at all times. A copy of the laboratory safety policy signed by you and your parent/guardian must be on file with the instructor before you may perform any lab work.

Labs will be performed by teams of students, but each student is responsible to turn in his or her own lab report. For some labs, you will be given premeasured samples to work with. Your grade will depend upon making accurate measurements and calculations based on these measurements.

Lab makeups will only be available if you had a school-approved absence on the day of the lab.

Quizzes and Tests

Quizzes will be given at the end of each concept section, tests will be given at the end of each major unit, and a cumulative final will be given at the end of the course. You will be allowed to use your notes and classwork as reference. You will not be allowed to use your phone.

Makeup Work

All work will be posted on our Schoology page. Any work missed due to absences should be turned in within one week following your return.

Extra Help

I am available for extra help Wednesdays after school from 3:45 to 4:15.

Learning Topics

1. Introduction
 - a. What is Chemistry?
 - b. Scientific Method
 - c. Lab Safety
2. The Mathematics of Chemistry
3. Describing Matter
4. Atomic Theory
5. The Periodic Table
6. Chemical Bonding
7. Chemical Reactions
8. Stoichiometry