



SHS Chemistry (CHEM&121)
Course Syllabus Room D303
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Course Description: Chemistry at SHS is a 2-semester, general chemistry course that introduces students to inorganic/analytical chemical principles. 5 credits of EvCC Chem 121 is available for this course (For the 1st time ever, these credits are **FREE** to all students. More registration info to come).

Course Objectives:

- Use Algebra I fundamentals to define and describe abstract chemistry concepts in a more concrete fashion.
- Understand the basic principles of chemistry (Matter and Change – qualitative and quantitative; Nature of Matter; and Nature of Chemical Bonding). Then build on this foundation to understand a variety of more complex chemistry concepts at the application level.
- Learn to use proper lab techniques for conducting chemistry experiments and write formal lab reports.

Course Resources

- Textbook: Modern Chemistry. HMH 2017
- Student responsibility: scientific calculator (TI-84 plus preferred), comp book, 3-ring binder with tabs dedicated to chemistry (guidelines, notes, labs etc), pencil/pen/paper, note cards and highlighter. Bonus= colored pencils

Course Outline/Instructional Units

First Semester

Scientific Method and Problem Solving
Atomic Theory, Electron Structure,
and the Periodic Table
Chemical Bonding, Nomenclature, and Mass
Relationships
Balancing Chemical Equations
Chemical Reactions
Chemical Quantities and the Mole Concept
Stoichiometry

Second Semester

States of Matter & Phase Change
Thermochemistry & Enthalpy
Gas Laws
Water and Aqueous Solutions
Solution Chem and Molarity
Acids and Bases & Neutralization *rxn*
Intro to Organic Chemistry
Hydrocarbons
Organic Functional Groups

Major Assessments: A test following each instructional unit or chapter. A cumulative year end Final Exam. One project and presentation. Multiple Labs each Unit including periodic Formal Lab write ups.

Note: This entire class is cumulative. Material learned in Sept will appear on the final in June.

Extra Help: All students will be provided opportunities for extra help by making arrangements with the teacher. I am very available. Before school, after school and Panther period...

Behavior: The two main expectations are **SAFETY** and **REPSECT**. Be safe while conducting labs. Treat the instructor, your peers and yourself with respect.

Labs: You will conduct labs with a lab partner, **but lab reports are to be completely individually** (unless specified). You may have the same raw data, but all other work must be your own. Lab partners who turn in two copies of the same lab will both receive zeros & your parents will be contacted. A second offence results in an office referral. Expect a Lab Practical Quiz on days labs are due. Your quiz will mirror the content of your lab so that you may demonstrate your understanding of the content. Lab make ups are available through the next 2 panther periods for each lab.

Cell Phones: Cell phones and other personal connected electronic devices (ear buds) will be turned off and put away while in class. Students will not use their cell phones while taking restroom breaks. Parents can be in contact with students during passing periods and lunch. The school cellphone policy (please refer to the student handbook) is followed in this class.

Assignment Weights

Tests/Quizzes: Account for ~75% of your grade. Up to three poor daily quiz scores can be replaced by a higher test grade **for that unit** of study. You cannot replace the score of a quiz that you have not taken originally. You cannot make up a missing quiz after you have taken the Test over that material. **Quiz Replacement excludes Lab Practical Quizzes.**

Labs, Homework and projects comprise the remainder of your grade. Do them well. There are no “re-do’s” in Chemistry. If you do not finish a lab in class, or have an excused absence, lab equipment/chemicals will be available for the next two Panther Periods. After that period of time, chemicals will be disposed of and lab make up will no longer be available.

Plagiarism Policy: Any student, who knowingly turns in any work that has been done by someone other than himself or herself, and fraudulently represents it as his/her own, shall be considered to have cheated. Cheating also includes: aiding someone else in cheating, the use or preparation of written, pictorial, or other materials not authorized by the instructor during a test or assignment, the use of testing materials obtained previous to the test date, or plagiarism of any kind. Consequences will be discussed between student, teacher, and parents. Disciplinary actions outlined in the student handbook will be followed.

Homework: Homework should be completed in PENCIL & you should always include your work. After you have completed a homework assignment and before the due date, an answer key will be available in class for you to check your work. If at any time you have questions you can ask Mrs. Hesselgrave for help or to go over a problem. Expect no credit for work turned in after the due date. Assignments are due at the start of class. After that time they are considered late. Questions directly from the HW will appear on the exam. Do your HW! Suggested problems from the textbook will be given for each unit of study. The answer key is always available in class. Several suggested problems will appear on each unit exam. Do the suggested problems!

Attendance: Attendance is important for success in chemistry class. Students who miss class, often miss information and work that cannot be made up. As a result, students who miss class generally fall behind and their grade suffers. I follow the school’s policy on absences and make up work. You have as many days as you were absent to make up the work/lab/test you missed. I will not track you down to make up this work, it is **YOUR** responsibility. If you fail to make up the work in the amount of time you are allowed as per school policy, your missing work will remain a zero. If you are absent the day of a test, you will take the test the next day you are in class – missing new material that you will need to make up. **Missing assignments/assessments due to an unexcused absence cannot be made up and will remain a zero.**

Late Work: No credit will be earned for late work. Ample time is given for HW and LABs. I NEVER assign something today and its due tomorrow. You typically have a week or more. Plan accordingly. If you miss a deadline, it is important that you still turn in the assignment so that you have no missing assignments and can earn extra credit the last day of the semester (see below). Because life happens, you are given 3 late work passes each semester. These passes allow you to turn in your work ONE DAY late for full credit. Late work passes must be filled out completely and attached to the assignment when turned in the NEXT day for you to earn credit. Use these passes wisely. They are nontransferable. Unused passes are worth extra credit the last day of each semester. First Semester Passes DO NOT carry over to 2nd Semester.

SHS Grading Scale

Letter Grade	Percentage
A	93% and above
A-	90% - 92%
B+	87% - 89%
B	83% - 86%
B-	80% - 82%
C+	77% - 79%
C	73% - 76%
C-	70% - 72%
D+	67% - 69%
D	60% - 66%
F	59% and below

*** please look closely & no, there is not an error**

Extra Credit: As per EvCC you are allowed to earn up to, but no more than, 5% of your grade in extra credit. Each unit E.C. will be made available to you. E.C. will only be added to your grade if you have **NO MISSING ASSIGNMENTS** the last day of the semester! Keep this paper all school year in the science section of your binder and it just might bring you some much needed extra credit in June.

