2025-2026 Course Syllabus

Course Name:	Chemistry CP
Teacher Name:	Rachel Brown
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Course Description:

This course is rigorous and demands a high level of abstract thinking, working with symbols, and application of knowledge to problem-solving. Students will study atomic structure, quantum mechanical theory, bonding, shapes of molecules, gases, thermochemistry, electrochemistry, oxidation reduction, nuclear chemistry, acids and bases. The course contains a major laboratory component.

Student Learning Outcomes:

By the successful completion of this course, you will be able to:

1. Apply knowledge to problem-solve in various atomic scenarios
2. Have knowledge of the smallest unit of matter
3. Use laboratory skills to conduct experiments and analyze data

Course Outline

First 9-weeks	Second 9-weeks
Unit 1: Introduction to Chemistry and Measurement (7-8 days)	Unit 5: Bonding and Lewis Structures (8 days) Topics: Lewis dot structures, Bonds, VSPER, Polarity

Topics: Lab techniques and safety, inquiry, scientific method, units of measurement, dimensional analysis Unit 2: Atomic Structure and Periodic Properties (8 days) Topics: Subatomic particles, ions and isotopes, Periodic Table Unit 3: Electrons (7 days) Topics: Electron configurations, Bohr models, electronic transitions, wavelength Unit 4: Nomenclature (10 days) Topics: Types of bonds and properties, naming ionic and covalent	Topics: The mole, empirical and molecular formulas, percent composition Unit 6: Math and Moles (8 days) Topics: The mole, empirical and molecular formulas, percent composition Unit 7: Chemical Reactions (10 Days) Topics: Classifying reactions, balancing equations, predicting products, Percent Composition

Annotated Book List:

Bullet list here (if applicable)

- N/A

Required Materials:

1. Pencil and pen
2. Notebook or Binder
3. Calculator (optional) - class set will be provided for use during class time only

Class Expectations:

1. Come in prepared to be an active learner
2. On lab days, wear required safety clothing
3. Be respectful to everyone in the room
4. Follow the Woodmont Way

Course Policies:

Grading Practices

Grades will be determined based on the following weighted percentages:

- **Major Grades** 60%
  Tests, Projects, and Major Labs
- **Minor Grades** 40%
  Lab Reports, Classwork, Quizzes, Homework

District Grading Scale	
A	90-100
B	80-89
C	70-79
D	60-69
F	0-59

Late Work Policy

- Missing or late work for Majors & Minors will be accepted up to 5 class periods after the assigned due

date. There will be a 10-point deduction for each class period the work is late.

Retake Policy

- Each student will have an opportunity to complete a minor and major mastery each quarter that can replace one minor grade and one major grade respectively
- There are no quiz or test retakes allowed

Makeup Work Policy

- Missed labs *will not* be exempted. If a student is absent on the day of a lab, he/she will be required to make up the lab in some form, depending on the nature of the lab. It is his/her responsibility to contact the teacher via email when you return to receive instruction on how to make up the lab and when it is due.
- Students are responsible for making up all assignments and/or labs within 5 school days after returning to school

Laboratory Safety

- Labs are the hands-on experiences that are essential to understanding chemistry. Labs are designed to reinforce concepts or occasionally to introduce a new topic. Any student who violates the lab safety contract will ***at minimum*** be given a zero and removed from the lab immediately. The safety contract must be signed by the student and parent in order to participate in labs. If a student does not have proper shoes for lab, he/she will complete an alternate assignment while the class is in the lab and must contact the teacher via email to receive instruction on how to make up the lab.

Honor Code & Cheating

- The Honor Code of Woodmont High School will be strictly followed. The full Honor Code can be found in its entirety in the Student Handbook.

Cheating Includes, but is not limited to:

- Copying someone else's class work, homework, quizzes, other graded work or tests or knowingly giving one's own work to someone else to copy/use, looking on someone else's paper or test, plagiarizing, using unauthorized testing aids, asking, receiving or telling information about the contents of a test, submitting work that is not your own, having access to electronic devices and PEDs during assessment.

You are responsible for changing your district password. Failure to do so can result in other students using your work and you will be held responsible. Therefore, you should not share your password with ANY student. Any work that is plagiarized will be subject to disciplinary consequences.