

Chemistry 11 Course Outline Winter 2026



Instructor: Ms. Carpio

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Course Overview:

In this course, students will explore the foundational principles of chemistry, including the structure of matter, atomic theory, chemical bonding, and the periodic table. Key topics such as chemical reactions, stoichiometry, and solutions will be covered, focusing on theoretical understanding and practical laboratory skills. Students will learn to apply chemical concepts to everyday situations through hands-on experiments and problem-solving exercises. Critical thinking and scientific inquiry are emphasized throughout the curriculum. By the end of the course, students will have a solid foundation in chemistry, preparing them for more advanced studies.

BIG IDEA 1: Atoms and molecules are building blocks of matter.

Quantum mechanical model and electron configuration; valence electrons and Lewis structures; chemical bonding based on electronegativity

BIG IDEA 2: Organic chemistry and its applications have significant implications for human health, society, and the environment.

Organic compounds, applications of organic chemistry, the mole, and dimensional analysis

BIG IDEA 3: The mole is a quantity used to make atoms and molecules measurable

Reactions and stoichiometric calculations using significant figures

BIG IDEA 4: Matter and energy are conserved in chemical reactions.

Local and other chemical processes; and green chemistry

BIG IDEA 5: Matter and energy are conserved in chemical reactions.

Solubility of molecular and ionic compounds; stoichiometric calculations in aqueous solutions, and analysis techniques

Course Materials:

Students are required to bring a binder, notebook, pens, pencils, and the Chem 11 workbook to every class.

Class Participation:

Active daily engagement and participation are expected and will be assessed using a participation rubric. Students are encouraged to contribute respectfully to discussions and learning activities.

Attendance Policy:

Students are expected to arrive on time and prepared to participate in class.

- Arrival within 5 minutes after the scheduled start time will be recorded as late.
- Arrival 15 minutes after the scheduled start time will be recorded as absent (late).

If you are absent, it is your responsibility to check Microsoft Teams for any notes, handouts, or announcements. Missed assignments must be completed and submitted in a timely manner to be eligible for full credit.

Language Policy (English-Only):

English is the language of instruction and communication in this classroom. Students are expected to use English at all times during class activities, discussions, and group work to support academic language development and ensure inclusive participation.

Academic Honesty Policy:

All submitted work must be original and completed with integrity. Academic dishonesty, including copying or plagiarism, will result in consequences such as a mark of zero or no credit for the assignment.

Technology Policy:

The use of technology, including cell phones and personal devices, is permitted only at the discretion of the teacher and for educational purposes.

Grading:

Coursework	Value
Participation	5%
Exit ticket	5%
Quizzes	20%
Worksheets and Labs	20%
Projects/Presentations	10%
Unit Tests	20%
Final Exam	20%
Total	100%

Final Reminder:

This course is an opportunity not only to pass, but to reach your full potential. Show up prepared, put in honest effort, and ask for help when you need it. If you stay committed and keep trying, you can succeed and be proud of how much you grow.