



Chemistry 11 Course Outline Spring 2025

Instructor: Ms. Carpio

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Period 4 (Room 111)

Course Curriculum: 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 must bring a 3-ring binder, vocabulary notebook, papers, pens, pencils, and a Chem 11 workbook.

Class Participation:

Daily engagement and participation are encouraged, as they will be graded using a rubric.

Attendance Policy:

Students are expected to arrive at class on time and ready to engage. If you are absent from the class, please check on Teams for any notes or handouts you missed. You must make up assignments in a timely manner in order to receive full credit.

Honesty Policy:

Work will be assessed for authenticity. Dishonesty will result in consequences, including '0' marks or no credit.

Technology Policy:

All technology, including cell phones, will be used at the discretion of the teacher.

<u>Grading:</u>	Coursework	Value
	Participation	5%
	Quizzes	20%
	Worksheets and Labs	20%
	Projects/Presentations	10%
	Unit Tests	20%
	Final Exam	25%
	Total	100%

* Be on time; stay on-task; organize materials; join class and group discussions; contribute to group work.