

## Chemistry

### Syllabus for the 2023-2024 School Year

1. **Course Overview**
  - 1.1 Course ID: 1201
  - 1.2 Course Number: 1201
  - 1.3 Course Title: Chemistry
  - 1.4 Course Description: This course is designed to provide students with a comprehensive understanding of the principles and concepts of chemistry, including atomic structure, chemical bonding, stoichiometry, and the properties of matter.
  - 1.5 Course Prerequisites: None
  - 1.6 Course Credits: 1.0
2. **Course Objectives**
  - 2.1 Understand the structure and properties of matter, including atoms, molecules, and ions.
  - 2.2 Apply the laws of conservation of mass and energy in chemical reactions.
  - 2.3 Identify and name compounds based on their chemical formulas.
  - 2.4 Calculate the molar mass of a compound and use it to determine the amount of substance.
  - 2.5 Predict the products of a chemical reaction and balance the equation.
  - 2.6 Explain the factors that affect the rate of a chemical reaction.
  - 2.7 Describe the properties of acids and bases and their reactions.
  - 2.8 Understand the periodic table of elements and its classification.
  - 2.9 Explain the trends in the periodic table, such as atomic size, ionization energy, and electronegativity.
  - 2.10 Describe the properties of the elements and their compounds.
3. **Course Content**
  - 3.1 Matter: Properties, Classification, and Changes
  - 3.2 Atomic Structure: Atoms, Molecules, and Ions
  - 3.3 Chemical Bonding: Ionic, Covalent, and Metallic
  - 3.4 Chemical Reactions: Types, Balancing, and Stoichiometry
  - 3.5 Acids and Bases: Properties, Reactions, and Indicators
  - 3.6 Periodic Table of Elements: Classification and Trends
  - 3.7 Metals and Non-metals: Properties and Compounds
  - 3.8 Carbon and its Compounds: Allotropy, Combustion, and Reactions
  - 3.9 Compounds of Metals: Oxides, Chlorides, and Sulfates
  - 3.10 Compounds of Non-metals: Oxides, Acids, and Bases
  - 3.11 Environmental Chemistry: Air and Water Pollution, Green Chemistry
  - 3.12 Practical Chemistry: Laboratory Skills and Safety
4. **Assessment**
  - 4.1 Formative Assessment: Quizzes, Homework, and Class Participation
  - 4.2 Summative Assessment: Midterm and Final Examinations
  - 4.3 Project Assessment: Laboratory Reports and Group Projects
  - 4.4 Portfolio Assessment: Student Work and Reflections
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  - 4.6 External Assessment: Standardized Tests and Competitions

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