

# CH 104Z : INTRODUCTION TO CHEMISTRY

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## Transcript title

Introduction to Chemistry

## Credits

4

## Grading mode

Standard letter grades

## Total contact hours

40

## Lecture hours

40

## Prerequisites

MTH 095 (or higher) or minimum placement Math Level 16.

## Corequisites

CH 124Z.

## Course Description

Introduces principles of general chemistry including atoms, chemical formulas and equations, bonding, stoichiometry, acid/base chemistry, solutions, and unit conversion calculations. Does not equal a general chemistry course sequence. CH 104Z is the lecture component; CH 124Z is the laboratory component.

## Course learning outcomes

1. Describe physical and chemical properties and the phases and classifications of matter.
2. Apply ionic and covalent bonding theories including Lewis structures, molecular structure, and polarity.
3. Quantify the composition of substances and solutions using molar mass and molarity.
4. Name a variety of elements, ions, ionic compounds, and covalent compounds.
5. Write and balance chemical reactions and solve stoichiometry calculations.
6. Identify types of intermolecular forces and apply them to physical properties of gases, liquids and solutions.
7. Interpret the behavior and relative strengths of acids, bases, and buffers.

## General education/Related instruction lists

- Science Lab