

# CHEMISTRY (CHEM)

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**CHEM2000 | Introduction to Chemistry | Lecture (3 Credits)**

Examine contemporary applications of chemistry in such areas as energy, technology and materials, pollution and waste. Applications illustrate many fundamental concepts in chemistry, such as molecular and electronic structure, mixtures, intermolecular forces, phase behavior, thermodynamics, electrochemistry, kinetics, and equilibria. Current and future global challenges are presented and discussed.

**General Education:** Natural Sciences

**CHEM2001 | Introduction to Chemistry with Lab | Lecture/Laboratory (3 Credits)**

Examine contemporary applications of chemistry in such areas as energy, technology and materials, pollution and waste. Applications illustrate many fundamental concepts in chemistry, such as molecular and electronic structure, mixtures, intermolecular forces, phase behavior, thermodynamics, electrochemistry, kinetics, and equilibria. Current and future global challenges are presented and discussed. A lab component is included.

**General Education:** Natural Sciences

**CHEM2110 | Chemistry with Lab | Lecture/Laboratory (4 Credits)**

Develop a basic understanding of the central principles of chemistry that are useful to explain and predict the properties of chemical substances based on their atomic and molecular structure; promotes the development of basic and advanced science process skills.

**General Education:** Physical Sciences with Lab

**CHEM2210 | Chemistry of Fluids & Gases | Lecture (3 Credits)**

Examine the principles and methodologies of chemistry involved in the production and operation of automobiles. The main focus is on the various fluids, such as gasoline, motor oil, and antifreeze. Other topics include environmental challenges, including fuel cells, biofuels, and other strategies for reducing carbon dioxide emissions.

**General Education:** Natural Sciences