

# EGSC 340 : Materials Chemistry

An introduction to the fundamental physical and chemical principles underlying materials properties. Beginning from basic quantum chemistry, students will learn how the electronic configuration of molecules and solids impacts their structure, stability/reactivity, and spectra. Topics for the course include molecular symmetry, molecular orbital theory, solid-state chemistry, coordination compounds, and nanomaterials chemistry.

**Semester Hours** 3.0

**Prerequisites**

EGSC 120 and CHEM 112.