

Illinois State University Chemistry

eLearning Course Offerings

CHE 350 Section 091

[Advanced Inorganic Chemistry](#)

Advanced inorganic chemistry including modern bonding theories, spectroscopy, structures and reactivity of coordination, main-group and transition-metal compounds; selected special topics.

CHE 380.59

[Topics in Contemporary Chemistry: Atmospheric Chemistry](#)

New concepts and recent developments in the fields of organic, chemical education, inorganic, analytical, physical, and biochemistry. May be repeated if content differs.

CHE 380.63

[Applied Inorganic Chemistry](#)

Advanced study of physical inorganic chemistry in applied settings. Topics covered include industrial cooling processes, industrial catalysis, manufacturing and purification processes in applied settings.

CHE 380.64

[Biochemistry of Nutrition, Exercise, and Sports Medicine](#)

Analysis of the biochemistry of nutrition and exercise and how these can be used to understand their complex interactions.

CHE 401.01

[Adv. Chemistry Demos: Gas Properties, Laws, and Reactions](#)

Topical analysis of current best practices in teaching chemistry related to gas properties, laws, and reactions.

CHE 401.02

[Adv. Chemistry Demos: Chemical Reactions, Stoichiometry, and the Mole](#)

Topical analysis of current best practices in teaching chemistry related to chemical reactions, stoichiometry, and the mole.

CHE 401.03

[Adv. Chemistry Demos: Kinetics, Equilibrium, and Acids & Bases](#)

Topical analysis of current best practices in teaching chemistry related to kinetics, equilibrium, and acids and bases.

CHE 401.04

Adv. Chemistry Demos: Atomic and Molecular Structure

Topical analysis of current best practices in teaching chemistry related to atomic and molecular structure.

CHE 401.05

Adv. Chemistry Demos: Redox, Electrochemistry, and Solutions

Topical analysis of current best practices in teaching redox, electrochemistry, and solutions as they pertain to secondary school classrooms.

CHE 401.06

Adv. Chemistry Demos: Thermochemical Energy in the Chemistry Curriculum

Topical analysis of current best practices and difficulties in teaching energy concepts in chemistry as they pertain to secondary school classrooms.

CHE 402.01

Teaching Chemistry in the Laboratory: An Experimental Science

Topical analysis of current best practices in teaching chemistry as an experimental science as it can be achieved in secondary school classrooms. A particular emphasis will be to connect content knowledge to modern demonstrations, experiments, and teaching activities.

CHE 403.01

Teaching Science Safely: Secondary Schools

Topical analysis of current best practices in teaching chemistry safely as it relates to secondary schools.