• CHEM 2100: General Chemistry I (Mink)

- Front Matter
- 1: Essential Ideas of Chemistry
- 2: Atoms, Molecules, and Ions
- 3: Composition of Substances and Solutions
- 4: Stoichiometry of Chemical Reactions
- 5: Thermochemistry
- 6: Electronic Structure and Periodic Properties
- 7: Chemical Bonding and Molecular Geometry
- 8: Advanced Theories of Covalent Bonding
- 9: Gases
- 10: Liquids and Solids
- 11: Solutions and Colloids
- 12: Kinetics
- 13: Fundamental Equilibrium Concepts
- 14: Acid-Base Equilibria
- 15: Equilibria of Other Reaction Classes
- 16: Electrochemistry
- 17: Nuclear Chemistry
- Back Matter

• CHEM 4300: Inorganic Chemistry (Mink)
Topics in inorganic chemistry, including molecular structure and bonding, symmetry, ionic structure and bonding, inorganic reactions, including acid base and oxidation-reduction reactions, coordination chemistry and bioinorganic chemistry.

- Front Matter
- 1: Atomic Structure
- 2: Review of Chemical Bonding
- 3: Symmetry and Group Theory
- 4: Molecular Orbital Theory
- 5: Coordination Chemistry I - Structures and Isomers
- 6: Coordination Chemistry III - Bonding
- 7: Metals and Alloys - Structure, Bonding, Electronic and Magnetic Properties
- 8: Metals and Alloys - Mechanical Properties
- 9: Ionic and Covalent Solids - Structures
- 10: Ionic and Covalent Solids - Energetics
- 11: Electronic Properties of Materials - Superconductors and Semiconductors
- 12: Physical Techniques in Inorganic Chemistry
- 13: Coordination Chemistry IV - Electronic Spectra
- 14: Coordination Chemistry V - Reactions and Mechanisms
- 15: Acid-Base Chemistry
- 16: Redox Stability and Redox Reactions
- 17: Transition-Metal Storage, Transport, and Biomineralization
- Back Matter