Chemistry 11
Syllabus

Textbook: Chemistry 4th ed. by Zumdahl

Liquids and Solids (Ch. 10) Intermolecular forces Properties of liquids Types of solids Crystal lattices Metals Changes of state Phase diagrams	**Chemical Kinetics** (Ch. 12) Reaction rates Determining rate laws Reaction mechanisms Model for kinetics Catalysis
Properties of Solutions (Ch. 11) Solution composition Enthalpy of solution formation Factors affecting solubility Vapor pressure of solutions Colligative properties	**Electrochemistry** (Ch. 17) Galvanic cells Standard reduction potentials Cell potential and free energy Nernst equation Batteries Corrosion Electrolysis
Thermodynamics (Ch. 16) Entropy 2nd Law of Thermodynamics Free Energy Equilibrium	**Organic Chemistry** (Ch. 22) Nomenclature Functional groups Stereochemistry Reactions

Other resources
Schaum's Outline of College Chemistry by Rosenberg and Epstein. Contains elementary to advanced problems

Harcourt College Outline Series: College Chemistry by Goldwhite and Spielman. Contains mostly elementary and intermediate problems.

Both study guides can be found at any decent bookstore for about $20.