

Chemistry, Grade 12 – University Preparation
SCH 4U0

This course prepares a student to be successful in a first year university chemistry course that is typically required for any science or engineering program. You will rely heavily on the skills learned in Grade 11 Chemistry, to write balanced chemical reactions and calculate chemical quantities. You will extend your understanding of the atomic and molecular structure of matter and explore structure and property relationships. You will analyze chemical reactions in terms of energy released or absorbed, factors affecting the rate of reactions and different equilibrium conditions. You will learn about the naming and classification of organic molecules and how they transform through different reactions. We will also explore the principles of oxidation-reduction reactions. Students will further develop their problem-solving and investigation skills as they investigate chemical processes, and will refine their ability to communicate scientific information.

Prerequisite: Chemistry, Grade 11, University Preparation (SCH 3U0)