

SCH 4U - Chemistry

Instructor: Mr. J. Oliver

Text: *Chemistry 12*, van Kessel, et al. Nelson Publishing, 2003

Prerequisite: SCH 3U

Course Content:

1. Organic Chemistry: An introduction to the chemistry of carbon and some of the many compounds it can form. Topics include organic nomenclature, reactions, polymers and societal impact and reliance.
2. Structure and Properties: A close examination of the structure of the atom, using the currently accepted model of the atom. Also, extending this to study the implications for molecular shape and properties.
3. Energy Changes and Rates of Reactions: A study of the energy changes in chemical reactions. A focus is the orderly nature of reactions and the ability to be predictive. Also includes a study of the speed of chemical reactions.
4. Chemical Systems and Equilibrium: A study of systems in dynamic equilibrium – predicting and manipulating the equilibrium point. A focus on particular types of systems.
5. Electrochemistry: A study of reactions that involve electrical current.

Course Evaluation:

Tests and Quizzes	60 %
Lab Reports	20 %
Assignments/Homework	20 %

Final Evaluation:

Term	70%
Final Examination	30 %