



SCH 4U1
Chemistry
Grade 12 University Preparation
2016-17

General Course Information

Prerequisite(s):	SCH 3U1/3
Teacher:	_____ (Science office, 416-395-3290 ext 20095)
Department:	Science
Assistant Curriculum Leader:	S. Evans, K. Fischer
Extra Help:	Available upon request, unless otherwise noted
Textbook and Replacement Cost:	Nelson Chemistry 12 \$85
Material Required:	Textbook

Course Description

This course enables students to deepen their understanding of chemistry through the study of organic chemistry, energy changes and rates of reaction, chemical systems and equilibrium, electrochemistry, and atomic and molecular structure. Students will further develop problem solving and laboratory skills as they investigate chemical processes, at the same time refining their ability to communicate scientific information. Emphasis will be placed on the importance of chemistry in daily life, and on evaluating the impact of chemical technology on the environment. Further information about this course can be found at <http://www.edu.gov.on.ca/eng/curriculum/secondary/science1112curr.pdf>

Course Information

Unit Titles

Strands of Study (Units)	Number of Lessons
Structure and Properties	20
Organic Chemistry	20
Energy Changes and Rates of Reaction	14
Chemical Systems and Equilibrium	15
Electrochemistry	14

Teaching Strategies

You will have opportunities to learn and be assessed (formative assessment) before evaluations. Strategies which may be used (but are not limited to) are: problem-sets, laboratory activities, hands-on activities, independent study, problem-based learning, role-plays, and simulations.

Assessment and Evaluation:

To promote student success, ongoing assessment and feedback is given regularly to the students. A variety of assessment and evaluation strategies are used in this course. Expectations are evaluated based on the provincial curriculum expectations and the strands and/or categories outlined in the ministry document.

The four categories of achievement are Knowledge and Understanding, Thinking and Investigation, Communication, and Application.

These categories help guide the creation of assessment and evaluation tools.



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Each student's term mark will be in the form of a percentage grade based on their achievement in the following areas:

Knowledge and Understanding	30%
Thinking and Investigation	25%
Communication	20%
Application	25%

The breakdown of the final mark is as follows:

Term Evaluation	70%
Term Project	5%
Final Evaluation	25%

The final evaluation will take place during the examination period.

In addition to students' performance in the achievement categories, students will also be assessed on their performance in the following learning skills:

- Responsibility
- Organization
- Independent Work
- Collaboration
- Initiative
- Self-Regulation

For specific policies on assessment and evaluation, and academic honesty, please refer to School Procedures in the student agenda.