

# HOLY TRINITY CATHOLIC SECONDARY SCHOOL

## COURSE OUTLINE



**Name of Course/Course Code:** SCH 4U – Grade 12 University Preparation Chemistry

**Course Prerequisite:** SCH 3U

**Course Description:** This course enables students to deepen their understanding of chemistry through the study of organic chemistry, the structure and properties of matter, energy changes and rates of reaction, equilibrium in chemical systems, and electrochemistry. Students will further develop their problem-solving and investigation skills as they investigate chemical processes, and will refine their ability to communicate scientific information. Emphasis will be placed on the importance of chemistry in everyday life and on evaluating the impact of chemical technology on the environment.

**Catholic Graduate Expectations:** Students develop their decision making skills and critically reflect on the spiritual, moral, and ethical dimensions of issues addressed in this course. They use and integrate the Catholic faith tradition in the critical analysis of chemistry in everyday life and evaluate the impact of chemical technology on the environment. As informed Catholic citizens, students acknowledge and accept their responsibility as stewards of the earth and use their knowledge to address pressing environmental issues.

### Units of Study

Unit 1	<i>Organic Chemistry</i>
Unit 2	Structure and Properties
Unit 3	Energy Changes and Rates of Reactions
Unit 4	Chemical Systems and Equilibriums
Unit 5	Electrochemistry

## Evaluation

70%	30%
Knowledge/Understanding	Culminating Task (10%)
Thinking/Inquiry	
Communication	Exam (20%)
Application	

## Course Resources Required:

**Students will require a scientific calculator for the course.**

For a detailed course description of this course, please visit  
<https://www.edu.gov.on.ca/eng/curriculum/secondary>