OUR LADY OF LOURDES CATHOLIC HIGH SCHOOL

COURSE OVERVIEW

**COURSE TITLE:** Grade 12 University Preparation Chemistry

**COURSE CODE:** SCH 4U

**CREDIT VALUE:** 1.0

**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 reactions, equilibrium in chemical systems, and electrochemistry. Students will further develop 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.

**How This Course Supports the Catholic Graduate Expectations:** This course seeks to further the achievement of Catholic Graduate expectations through integrating Scripture, Catholic Church teaching and moral and ethical reflection. Students are encouraged to become discerning believers who integrate faith with life. Students develop their decision-making skills by informing their conscience and critically reflecting on the spiritual, moral and ethical dimensions of issues raised in the course. In addition, as informed Catholic citizens, students acknowledge and accept their responsibility as stewards of the earth and use their knowledge to address pressing environmental issues. Finally, by examining the reactivity of compounds found in nature, students develop a wonder of creation, a respect for the environment, and a need for the wise use of resources. Please see the Course Calendar/Agenda Book for a listing of the Ontario Catholic Graduate Expectations.

Overall Expectations:

These can be found at the following website:

http://www.edu.gov.on.ca/eng/curriculum/secondary/subjects.html

Units: Titles and Times

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| --- | --- | --- |
| Unit 1 | Structure and Properties of Matter | 18 hours |
| Unit 2 | Organic Chemistry | 20 hours |
| Unit 3 | Energy Changes and Rates of Reaction | 20 hours |
| Unit 4 | Chemical Systems and Equilibrium | 30 hours |
| Unit 5 | Electrochemistry | 18 hours |

Assessment and Evaluation:

 Knowledge and Understanding 25%

 Thinking, Inquiry and Problem Solving 45%

Communications 10%

 Applications 20%

Assessment strategies include, but are not limited to tests, quizzes, formal laboratory reports, oral presentations, research assignments, group activities and laboratory skills.

\*\* If the teaching format must be altered (switch to hybrid model or distance learning) during the academic term, the weighting of the categories and methods of evaluation may have to be altered. You will be notified of any changes through D2L \*\*

Course Grade Weighting:

 Term Work 70%

 Culminating Activity/Examination 30%

Failure to complete assessment and evaluation activities reduces the body of evidence upon which the teacher can evaluate student achievement of the curriculum expectations and could jeopardize the granting of a credit for the course.

Textbook:

*Chemistry 12 University Preparation* – Nelson, 2012

Late/missed assignments

Please see the information regarding this topic in the student agenda books provided by the school.

If a student is absent on the date that an assignment is due, the assignment must be sent by e-mail on the due date, to the teacher .

Mr. Seguin: james.seguin@wellingtoncdsb.ca

Cheating and plagiarism

Please see the information regarding this topic in the student agenda books provided by the school.

Teacher Contact Information

If you have any questions, please feel free to contact the teacher at the school, either by the e-mail address above, or by telephone at (519) 836-2170.

 Extension No.: Mr. Seguin ext.103521