



## Grade 11 Chemistry (University) SCH3U1

<b>Course Description:</b> This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behaviour of gases. Students will further develop their analytical skills and investigate the qualitative and quantitative properties of matter, as well as the impact of some common chemical reactions on society and the environment.	<b>Level:</b> University
	<b>Credit Value:</b> 1.00
	<b>Pre-requisite:</b> SNC 2D1/3 <b>Department:</b> SCIENCE
<b>Course Fees:</b> None	

<b>Textbooks &amp; Resources:</b> <ul style="list-style-type: none"> <li>· Growing Success: Assessment, Evaluation and Reporting in Ontario Schools</li> <li>· The Ontario Curriculum Grades 11 and 12 Science (Revised 2008)</li> <li>· Nelson Chemistry 11</li> <li>· Please see pages from and hand-outs including: SATEC student agenda, “SATEC Science Department Evaluation Policy” &amp; “TDSB Science Laboratory Safety Rules and Lab Procedures”</li> </ul>
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<b>Course Evaluation:</b> Student Evaluation consists of three components...											
<b>1) Learning Skills &amp; Work Habits:</b> Students are evaluated on 6 Learning Skills & Work Habits and are evaluated on a scale of Excellent (E), Good (G), Satisfactory (S) & Needs Improvement (N) and reported on the report card.	<b>The skills and habits consist of:</b> <ul style="list-style-type: none"> <li>· Responsibility</li> <li>· Organization</li> <li>· Independent Work</li> <li>· Collaboration</li> <li>· Initiative</li> <li>· Self-Regulation</li> </ul>		Skills and work habits <b>are not</b> included in the student's final mark unless specified in the curriculum expectations.								
	<b>2) Term Mark (Assessment of Learning):</b> <i>It is the student's responsibility to submit evidence of the term's learning in a complete and timely manner.</i>  Student performance standards for knowledge and skills are described in the curriculum Achievement Chart. The curriculum is assessed in four categories:										
<b>3) Final Evaluation (Assessment of Learning):</b> The <b>written exam</b> will be administered during the school's final exam schedule. The final evaluation accounts for 30% of the final mark.	<b>The term evaluation consists of:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>· Knowledge</td> <td style="text-align: right;">21%</td> <td rowspan="4" style="background-color: #cccccc; text-align: center; vertical-align: middle;"><b>70%</b></td> </tr> <tr> <td>· Inquiry</td> <td style="text-align: right;">21%</td> </tr> <tr> <td>· Communication</td> <td style="text-align: right;">14%</td> </tr> <tr> <td>· STSE</td> <td style="text-align: right;">14%</td> </tr> </table>		· Knowledge	21%	<b>70%</b>	· Inquiry	21%	· Communication	14%	· STSE	14%
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<b>Final Mark = 70% Term Mark + 30% Final Evaluations</b>											
For a detailed description on Course Evaluation, see “How Did I Get That Mark!” at <a href="http://www.satec.on.ca">www.satec.on.ca</a>											
<b>Course Conduct Policies:</b> See Student Agenda.											

Course Outline:			
Unit	Description	Approximate Length	Major Unit Evaluation
<b>Matter, Chemical Trends, and Chemical Bonding</b>	Different elements and compounds have different properties and can be represented visually in a variety of ways. Elements combine to form chemical bonds and are organized in the periodic table in predictable trends. The different properties of chemicals change their effects on human health and environment and augmenting these properties may reduce their impact.	4 weeks	Environmental Effects of Hazardous Substances  Green Product
<b>Chemical Reactions</b>	Chemical reactions are used in a variety of applications and have impacts on society and the environment. Students will investigate and differentiate between several different types of reactions.	4 weeks	
<b>Quantities in Chemical Reactions</b>	Students will investigate quantitative relationships in chemical reactions, learn to solve related problems and connect the concept of the mole to these quantitative relationships. This knowledge will be related to chemical quantities and calculations used at home, and in environmental and industrial workplaces.	3 weeks	
<b>Solutions &amp; Solubility</b>	Students will learn about the qualitative and quantitative properties of solutions and learn to solve related problems. This knowledge will be related to the analysis of water and the variety of social and environmental issues associated with drinking water.	3 weeks	
<b>Gases &amp; Atmospheric Chemistry</b>	Students will learn about the laws that explain the behaviour of gases and solve related problems. By understanding gases, the cumulative effects of human activities and technologies on air quality can be investigated. Canadian initiatives to reduce air pollution will also be studied.	3 weeks	Effect of pollution on the atmosphere
<b>Skills &amp; Careers</b>	Scientific investigation skills and career exploration.	Integrated into each unit.	
<b>Note:</b>	At least 2 of the above 3 projects will be assigned. All of the above units will also include tests, quizzes, labs, and assignments.		
<b>Note: Order that the units are delivered may change due to student needs and resources available during the course.</b>			
<b>General Information:</b>		<b>Science Department deadlines and plagiarism policy.</b>	
1 – As per SATEC school policy students are expected to come to class:		Each assignment will have a due date. Handing in an assignment <b>after the due date may result in a deduction of marks</b> at the discretion of the teacher.	
<ul style="list-style-type: none"> <li>a) in uniform and,</li> <li>b) with cell phones, mp3 players etc... unseen and not in use during class time.</li> </ul>		Students must be in class on dates of any major assessments. If you miss a major assessment (i.e. unit test, exam, presentation) you must give your teacher a note <b>written and signed by your doctor or parent</b> stating the health reasons that kept you from class. Without a doctor's note, you will receive a mark of <b>zero</b> for that missed major assessment.	
2- To be successful in Science, students are expected to:		-If you know ahead of time that you will have an appointment, field trip, game, etc at the same time as the major assessment, you must either arrange with your teacher to complete the assessment before the scheduled date, or cancel your other plans so you can attend the evaluation.	
<ul style="list-style-type: none"> <li>a) come to class prepared with pen/pencil, paper binder and resources for your particular Science course,</li> <li>b) demonstrate academic honesty with their own work and when working with others,</li> <li>c) complete assignments in a timely manner and,</li> <li>d) follow necessary safety rules and procedures of a Science Lab.</li> </ul>		<b>Plagiarism includes:</b> copying another student's work, buying essays, copy/paste web info and call it your own work, using information from print or internet media without identifying the source. To avoid plagiarism:	
<b>Note:</b> For clarification of any of the above issues please see the SATEC agenda along with our own SATEC Science Department Evaluation Policy and/or the TDSB defined Science Laboratory Safety Rules and Lab Procedures presented the first week of class and stored at the front of your notebooks for future reference.		Do not cheat; Do not copy. Keep your eyes on your own paper during tests and exams. Do not steal intellectual property. Reference information properly (MLA)	
3- To seek extra help:		We only need to <u>suspect</u> cheating to penalize you. There will be no warnings, only marks of <b>zero</b> .	
<ul style="list-style-type: none"> <li>a) speak to your Science Teacher and schedule a time to meet,</li> <li>b) use the school's homework club to access peer tutors and/or,</li> <li>c) speak to your guidance councillor to arrange for a tutor.</li> </ul>			
<b>This course meets Environment and ICT SHSM program requirements.</b>			
			

**Please retain this page in the front of your notebook for future reference.**

