



## Chemistry 3202 Course Description

Chemistry 3202 is an academic Pan-Canadian science course that aims to develop scientific literacy. Scientific literacy is an evolving combination of the science related attitudes, skills, and knowledge students need to develop inquiry, problem-solving, and decision-making abilities; to become lifelong learners; and to maintain a sense of wonder about the world around them.

**NOTE: Chemistry 2202 is a pre-requisite for Chemistry 3202.**

Chemistry 3202 is composed of four units that contain core labs and core STSE sections (Science, Technology, Society, and the Environment). All schools are expected to complete these core areas and adhere to the sequence of units outlined below.

### Unit 1: Equilibrium (25%)

Core Lab #1: *Studying Reaction Rate*

Core Lab #2: *Perturbing Equilibrium*

Core STSE #1: *Smog, Catalytic Converters and You*

### Unit 2: Acids & Bases in Chemical Changes (30%)

Core Lab #3: *The Concentration of Acetic Acid in Vinegar*

Core Lab #4: *K<sub>a</sub> of Acetic Acid*

Core STSE #2: *Acids around Us*

### Unit 3: Thermochemistry (25%)

Core Lab #5: *The Heat of Combustion of a Candle*

Core Lab #6: *Hess's Law and the Enthalpy of Combustion of Magnesium*

Core STSE #3: *What Fuels You?*

### Unit 4: Electrochemical Changes (20%)

Core Lab #7: *Measuring Cell Potentials of Galvanic Cells*

Core Lab #8: *Electroplating*

Core STSE #4: *From Mineral to Metal: Metallurgy and Electrolytic Refining*

### Assessment:

Assessment in this course is governed by the *Assessment and Evaluation Policy* of the Eastern School District. This policy is located at [http://www.esdnl.ca/about/policies/esd/I\\_IL.pdf](http://www.esdnl.ca/about/policies/esd/I_IL.pdf). The regulations are located at [http://www.esdnl.ca/about/policies/esd/regulations/I\\_IL\\_1L.pdf](http://www.esdnl.ca/about/policies/esd/regulations/I_IL_1L.pdf).

### Evaluation Plan for Chemistry 3202:

Tests/Quizzes	20%	<b>Note:</b> <i>Students should be provided with all appropriate data sheets and a periodic table for testing. These are located on <a href="http://www.ed.gov.nl.ca/edu/k12/pub/courses/chem3202.htm">www.ed.gov.nl.ca/edu/k12/pub/courses/chem3202.htm</a>.</i>
Performance Assessment	15%	
Midyear Examination	15%	
Public Examination	50%	