

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: Ka 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/l_lL.pdf. The regulations are located at http://www.esdnl.ca/about/policies/esd/regulations/l IL 1L.pdf.

Evaluation Plan for Chemistry 3202:

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