



## CHEMISTRY 30

SCN3796

5 Credit Course

<b>Course Overview</b>	Chemistry 30 is composed of four units of study: A. Thermochemical Changes B. Electrochemical Changes C. Chemical Changes of Organic Compounds D. Chemical Equilibrium Focusing on Acid-Base Systems																
<b>Prerequisite</b>	<i>Please refer to Alberta Education's Provincially Authorized Senior High School Courses and Course Codes Document</i>																
<b>Required Materials &amp; Resources</b>	<ul style="list-style-type: none"><li>• Seven Modules and Seven Assignment Books</li><li>• Media Reference Page</li><li>• Textbook: Chemistry, Alberta 20-30, Nelson</li><li>• Textbook CD or <a href="http://www.learnalberta.ca">www.learnalberta.ca</a> (User ID: LA12, Password: 2953)</li></ul>																
<b>Learning Outcomes</b>	<b>The student will:</b> A. determine and interpret energy changes in chemical reactions B. explain and communicate energy changes in chemical reactions C. explain the nature of oxidation-reduction reactions D. apply the principles of oxidation-reduction to electrochemical cells E. describe chemical reactions of organic compounds F. explain that there is a balance of opposing reactions in chemical equilibrium systems G. determine quantitative relationships in simple equilibrium systems																
<b>Note</b>	<b><i>Within Alternative Education all teachers are required to follow a common course outline and gradebook set up.</i></b>																
<b>Assessment</b>	The student's grade is determined by the knowledge the student has acquired based on the program of studies and the skills the student is able to show in articulating his or her knowledge. The student's grade will be calculated based on the following: <i>(90% of the school grade will be combined with 10% of the diploma exam grade to calculate an overall final grade)</i> <b>Coursework –25%</b> <b>Quizzes– 25%</b> <b>Midterm – 25%</b> <b>Final Exam – 25%</b>																
<b>Topics of Study</b>	The student's grade is determined by the knowledge the students has acquired based on the program of studies and the skills the student is able to show in articulating his or her knowledge. <table><thead><tr><th>MODULE</th><th>TITLE</th></tr></thead><tbody><tr><td>1</td><td><i>Organic Chemistry of Petroleum Derived Hydrocarbons</i></td></tr><tr><td>2</td><td><i>Hydrocarbons Derivatives and Organic Reactions</i></td></tr><tr><td>3</td><td><i>Thermochemical Changes</i></td></tr><tr><td>4</td><td><i>Electrochemistry</i></td></tr><tr><td>5</td><td><i>Electrochemical Cells</i></td></tr><tr><td>6</td><td><i>Chemical Equilibrium</i></td></tr><tr><td>7</td><td><i>Equilibrium in Acid Base Systems</i></td></tr></tbody></table>	MODULE	TITLE	1	<i>Organic Chemistry of Petroleum Derived Hydrocarbons</i>	2	<i>Hydrocarbons Derivatives and Organic Reactions</i>	3	<i>Thermochemical Changes</i>	4	<i>Electrochemistry</i>	5	<i>Electrochemical Cells</i>	6	<i>Chemical Equilibrium</i>	7	<i>Equilibrium in Acid Base Systems</i>
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<b>An Important Note About Assessment</b>	A wide range of assessment information is used in the development of a student's final grade. Within Alternative Education, individualized assessments provide specific information regarding student progress and overall performance in the course. Student assessments may vary from student to student to adapt to differences in student needs, learning styles, preferences and paces. The teacher will apply best teaching practices to determine appropriate assessment.																

<b>TEACHER'S CONTACT INFORMATION:</b>	
<b>Teacher's Name:</b>	
<b>Teacher's Phone Number:</b>	
<b>Teacher's Email Address:</b>	