



## CHEMISTRY 20 COURSE OUTLINE

**Instructors: Mr. J. Netzel**

**School Website: <http://bertchurch.rockyview.ab.ca/>**

### **Senior High Science Program Philosophy**

The senior high science programs are designed to help all students attain the scientific awareness needed to function as effective members of society. The expected student knowledge, skills and attitudes are approached from a common philosophical position in each science course.

In the senior high science programs, students focus on learning the big interconnecting ideas and principles, which provide continuity with the junior high program and build on students' previous learning.

The senior high science programs place an increased emphasis on developing methods of inquiry that characterize the study of science. Students will be expected to show an appreciation for the roles of science and technology in understanding nature. The learning context is an integral part of the senior high science programs. Learning opportunities will be made meaningful by providing concrete experiences that students can relate to their world.

The senior high science programs place students at the centre. Students are active learners and will assume increased responsibility for their learning. They will appreciate the value of teamwork and make a positive contribution when working with others to solve problems and complete tasks.

### **Course Description and Objectives**

The realm of chemistry can be best defined as the study of matter and its inter-relationships. The Chemistry 20 course will be presented in four units:

<b>Unit</b>	<b>Chapter Reference</b>
Review of Chemistry Basics	1 & 2
A – The Diversity of Matter and Chemical Bonding	3
B – Forms of Matter: Gases	4
C – Matter as Solutions, Acids and Bases	5 & 6
D – Quantitative Relationships in Chemical Changes (Stoichiometry)	7 & 8

## Course Evaluation

Student report card marks are determined on the basis of homework, class assignments, quizzes, unit exams, and a final exam. A general mark breakdown follows:

<b>Term Work:</b>	
• Formative Assessment (Projects, Assignments, Labs, Quizzes)	65%
• Unit Tests/Practical Exams	35%
<b>Final Exam:</b>	30%

## Course Materials

- Nelson Chemistry, F. Jenkins *et al.* (\$124.94) – supplied to student
  - Online Textbook Resources <http://www.nelson.com/ABchem20-30/>
    - Click on "Student Centre" on the left. Login found below:
      - nelsonchem\_student
      - nelsonchem\_onlinelearning
      -
- Chemistry 20 – Notes and Problems (\$12.75)
- It is expected that you bring your textbook and notes along with the following to every class: scientific calculator, 3-ring binder, loose-leaf paper, pen, pencil, eraser

## Science Department Expectations

**Procedure** - It is reasonable to expect each student to be punctual for each class period. Repeated lateness is disrespectful and discourteous and, if not corrected tends to become commonplace. Corrective action may include detention time, extra work or assignments, or in chronic situations referral to administration.

**Assignments** - When a student is absent it is their responsibility to contact the teacher about missed work and to determine a mutually agreeable time for missed assignments to be handed in for marking. If no attempt is made to contact the teacher within one day of the student's return, or the work is not completed within agreeable time, a zero will be given. Missed assignments as a result of unexcused absences will result in a mark of zero.

**Exams** - Students who are absent during the year for exams may not be allowed to write missed exams. In this case the final exam for those students will be more heavily weighted to make up their missed exam. However, some teachers may have an alternate exam for the student to write. This varies from teacher to teacher. All students are expected to be present for their final exams whether the exam is written in the classroom or other location. The only acceptable excuse for missing a final exam is illness. A medical certificate is required to verify this.

**Calculator Policy** - It is the student's responsibility to have an appropriate calculator for tests, quizzes, and assignments. Calculators may be used for exams/quizzes, but may not be shared. Calculators will not be lent out to students by their teacher. No information, text, or formulas may be stored in electronic form. Calculators will be cleared before quizzes, exams, and the final exam.

**Appeals** - Students and parents may direct, in writing, any appeal of the final grade to the school Principal (see page 19 of the student handbook).