Mr. Hazlewood mhazlewood@trsd.ca

Chemistry 40S – Course Outline

Credit Value: 1 Credit
Course Code: 0122
Prerequisites: None
Textbook: Clancy et. al. Chemistry 11. McGraw-Hill. Whitby, ON. 2003.
**Textbooks are in limited supply, and given that students are not able to share books this year, we will only be using them as a resource when needed and students will be given other options to access the material.

Tidbits of wisdom from the world of chemistry…

"I bought 12 cookies and ate hafnium. Then I ate the other 6, and now they argon"
- *Steve Hardinger*

"Chemists do not usually stutter. It would be very awkward if they did, seeing that they have at times to get out such words as methylethylamylophenylium." –*William Crookes*

The meeting of two personalities is like the contact of two chemical substances: if there is any reaction, both are transformed. – *C.G. Jung*

Course Description

Chemistry itself is a discipline that investigates the composition of matter and the various changes it undergoes. Quite literally, chemistry is the study of everything we know about. It can explain why leaves change colour in the fall, why dish soap doesn't work on your hair, or why living organisms can survive in the ocean depths without light or oxygen.

The grade 12 course provides students with an in depth experience in many different branches of the chemistry field. The purpose of this course is to prepare students for future studies in university courses in the chemistry field.

Course Timeline

Feb 1 – 21 – Atomic Structure
Feb 22 – Mar 16 – Aqueous Solutions
Mar 17 – Apr 10 – Kinetics
Apr 11 – May 1 – Chemical Equilibrium
May 2 – May 31 – Acids and Bases
June 2 – June 22 – Electrochemistry

Assessment – curriculum available at https://www.edu.gov.mb.ca/k12/cur/index.html

Course Work (70%) – Each topic will have multiple formative assessments to help students recognize areas of strength and areas to continue to improve on. We will also complete a performance assessment in most of the topics, some of which will be marked using a rubric, while others are used as formative feedback. There will also be at least one summative assessment in each topic that will be weighted based on the amount of time spent on that section. Larger sections that the class finds interesting will have larger assessments worth a greater percentage of the course mark.

Each student will also complete a chemistry demonstration that will be marked using a class constructed rubric, which will be worth approximately 5% of this course mark.

Final Exam (30%) – The final exam is cumulative, and will focus on material covered on various topic assessments. There will also be questions regarding the performance assessments as well as the inquiry project.

Academic Dishonesty – any act of cheating, plagiarizing, or copying of work by a student will result in stiff penalties. The first offense will be a choice of zero on the assignment or a redo at my convenience, as well as a letter sent home to your parents. The second offense will be an automatic zero, with a referral to administration for any further discipline.

Late Assignments – Performance assessments and inquiry projects are due on or before the date set. Other than medical emergencies and prior arrangements, failure to do so will result in a grade of 0 once the assignment has been marked and returned to the other students.

Missed Assessments & Rewrites – Any missed assessment will be given a grade of 0 unless valid reasons are given (eg. hospitalization). A student who misses an assessment will be required to complete it during the lunch hour (or spare) on the day they return to school. Assessments can be rewritten upon the request of the student, but will only be granted after that student has earned the opportunity. This requires attendance at lunch (or spare) for extra help and practice, as well as multiple formative assessments in order to demonstrate sufficient understanding.

Recovery Learning due to class suspension – As this course or it's precursors were not running during the spring of 2019, no recovery learning is required.