

# COURSE OUTLINE

## WHAT IS EXPECTED OF YOU!

### COURSE OVERVIEW

Chemistry 40S is designed for the academic, matriculation conscious students. This course is designed to help students better understand and apply the fundamental concepts and skills relating to the study of the composition, properties and interactions of matter. It is also designed to prepare students for continued studies in chemistry, both organic and inorganic, in post-secondary studies. This course is a continuation on the understanding acquired during CH30S.

Chemistry isn't a pyrofest. We're not going to go around blowing stuff up, setting things on fire, or melting live animals. Though we will see two of the three of these things during the course of this class (live animals are safe), they will be in a controlled and safe setting.

The course is divided into 5 units of study:

1. Atomic Structure
2. Kinetics
3. Equilibrium and Solubility
4. Acids and Bases
5. Electrochemistry

### EVALUATION

The final mark in this course is based on the student's achievement on quizzes, labs, and unit exams done throughout the semester. As well, a final exam will be calculated into your school-based mark. The specific quiz topics, unit progression and labs we will do can be found on your **Course Outcome Map**.

Labs/Assignments	20%
Quizzes	20%
Unit Tests	30%
Final Exam	30%

Each unit will be comprised of 1 quiz and 1 unit test. There will be 4 assessed assignments/lab reports to complete during the semester. You will also have lots of practice assignments, but these will not be formally assessed. We will use these as "training sessions".

### **BONUS SITUATIONS**

1. At the end of each unit, you will have the opportunity to replace your quiz mark for that unit with the unit test, if it is better. You cannot replace lab marks this way, so make sure you do those!
2. Of the 4 lab reports, you may drop your worst one at the end of the semester.
3. At the end of the course, you will have the opportunity to write a mock final exam as preparation for the real one. You can replace your lowest quiz or unit test mark of the year with the mock final mark if it is higher.

### **STUDENT RESPONSIBILITIES:**

1. Students are expected to attend class regularly and on time. If you should come to class late, you will find the door closed. **Sign in** on the clipboard hanging by the front door. If you are late three or more times/month, you will have automatically volunteered for monthly sink duty! Lack of attendance or continuous lates will result in withdrawal from the course.
2. Keep track of your mark online on your Powerschool Student Portal.
3. Missed quizzes will be assigned a mark of **incomplete**. No quizzes will be written after the specified date. Your mark on the unit exam will be used as your mark for that quiz. If you miss a unit exam, your mark on the mock final will take its place.
4. If you have missed a class for any reason, it is your responsibility to find out what you have missed from a fellow classmate. Obtain missed material from the side of the room or download it from my website. Once you have attempted to learn it, come by for help if needed. I am available most lunch hours from 12:50 – 1:20.
5. Be on task and **participate all period**. If you put in a solid and **consistent effort**, I can guarantee you success in this course.
6. Behave in a **mature, co-operative and safe manner**. If you behave in a way that is not safe, you will leave the lab and you will not receive credit for the lab.
7. **Labs** must be handed in on time. Since you are able to drop your worst lab at the end of the semester, late labs will NOT be accepted.
8. **Complete** all your **homework** and you will be successful in this class.
9. Be aware that you **cannot eat or drink** in the science lab!

## **THINGS I WISH I HAD FIGURED OUT BEFORE I WENT TO UNIVERSITY!**

1. ***Read "How to Get Good Grades in University"*** and follow it closely. Apply it to this course. Treat this course like a "practice run"...if you learn to apply these skills now, then you won't have to learn them when you are in the "pressure cooker" next year!
2. ***Practice, Practice, Practice.*** Learning science at this level is like getting good at free-throws in basketball – you can't do it without many hours of practice! Lightbulb moments in class are few and far between (if you do have one...savour it!). Most of the learning comes from 1. practice, 2. self assessment, 3. Practice, 4. identification of problem areas, 5. getting help fixing those areas, whether it be me, another teacher, or even a peer, and then 6. practice! At the end of the day perfect practice truly does make perfect!
3. ***Write to Learn and Learn to Write.*** Use your coil binder to make notes. Even if you get photocopy notes from me, re-write them in your own words and format. Make chapter review notes as you read your text. Show all of your work when do practice questions. No naked numbers! Exchange notes with another student and allow them to critique them...do they make sense, do they contain the correct language.

**WORK ETHIC IS EVERYTHING AT THIS LEVEL! DO EVERY QUESTION I PROVIDE YOU WITH AND YOU WILL BE FINE!**