



### 3. Required Materials

(a) **My Lab and Mastering Course Code.** A My Lab and Mastering Access Code can be purchased from the Camosun Bookstore. **Your Course code is valid for multiple courses for 2 years from purchase. So, if you already have a code (from Chemistry 120) there is no need to get another.**

If you have previously purchased a new textbook (Custom Camosun Edition) or ebook, then this includes a My Lab Mastering Chemistry Course Code.

(b) Other

**Chemistry 121 Laboratory Manual** – posted on D2L

#### Other Recommended Materials for the Course

Chemistry, The Central Science, Brown, le May, Bursten. *Custom Camosun Edition*. The 2<sup>nd</sup> and 1<sup>st</sup> Australian editions of this textbook are also acceptable. **Note: New textbooks come with a My Lab Mastering Chemistry Code.**

### 4. Course Content and Schedule

Subject	Material Covered	Lecture Hours (approximate)
Organic Chemistry	Alkane/Alkenes structure and properties, including naming simple cycloalkanes/ cycloalkenes, reactions and stereochemistry, functional groups and some reactions. Polymers depending on schedule.	10
Chemical Kinetics	Reaction rates, change in concentration with time, temperature and rate, reaction mechanisms and catalysis	6
Thermochemistry	Energy, first law of thermodynamics, enthalpy, calorimetry, Hess' Law, enthalpies of formation	3
Thermodynamics	Spontaneity, second law of thermodynamics, entropy, Gibbs Free Energy, free energy and temperature, free energy and equilibrium	3
Equilibrium	Equilibrium constants, heterogeneous equilibria, working with equilibrium constants	4
Acids and Bases	Acids and bases, pH scale, $K_a$ and $K_b$ , auto-ionization of water, acid strength of ions	4
Aqueous equilibria	Titrations, buffers	2
Electrochemistry	Redox reactions, balancing redox equations, half cells and the Nernst equation	4

Mon, Wed, Fri  
Tue, Thu

11:30 am - 1:20 pm  
1:30 pm – 4:20 pm

Test I	Thursday	May 20 <sup>th</sup>	1:30 – 3:30 pm	D2L
Test II	Thursday	June 3 <sup>rd</sup>	1:30 – 3:30 pm	D2L

## 5. Basis of Student Assessment (Weighting)

The course mark will be derived in the following manner:

a) Online mastering assignments: **20 %**

Homework 1 - 8 : total of 196 points

Online assignment marks may not be carried over so you must **complete these before the due date. You usually have a week or more to do these assignments so no excuses will be accepted, no exceptions.**

b) Laboratory component: **25 %**

To write the final exam you must achieve a minimum final score of **50%** on laboratory work, and you must pass **both** the lecture portion and the laboratory portion in order to pass the course.

The laboratory component will be online. Students will watch online videos, work with provided experimental data, and complete laboratory reports and/or lab assignments. Lab reports and lab assignments need to **be written electronically and submitted as pdf on D2L**, otherwise a mark of zero will be given. Each student must hand in their own work. Plagiarized work is subject to academic penalties –see section 8 below.

**Lab Reports (Ex. 1, Ex. 2, Ex. 5, Ex 6., Ex 7)** count 15% each toward the final lab grade. Late reports, with a late penalty of 25%, are accepted up to a week after the deadline.

**Lab Assignments** count 20% (**Ex. 9 – 12%, Ex. 10 – 8%**) toward the final grade.

**Lab Safety Quiz**, posted on D2L under “Quizzes” tab, counts 5% toward final lab grade.

c) 2 Term Tests: **12.5 %** each.

In the event of a midterm test being missed due to illness/other commitments the weight of the missed test will be carried over to the final. There are no make-up dates for midterms.

Each test will be written online as a D2L Quiz. Students are encouraged to attempt both tests. Test score that is not as high as that of the final exam will be dropped automatically and its weight redistributed to the final exam. However, anyone who is caught cheating will receive zero for that test which will not be redistributed.

**Student must write each test during the scheduled time. No one can write late and there will be no makeup test, no exceptions.**

d) A 3-hour written final examination covering all the material in the course: **30 %**

The final exam will be written online as a D2L Quiz.

If it is advantageous to the student the theory mark will solely be derived from the final examination, or a combination of midterm(s) and final.

**Students are required to check D2L regularly.**

## 6. Grading System

Standard Grading System (GPA)

Competency Based Grading System

## 7. Recommended Materials to Assist Students to Succeed Throughout the Course

n/a

## 8. College Supports, Services and Policies



### Immediate, Urgent, or Emergency Support

If you or someone you know requires immediate, urgent, or emergency support (e.g. illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts @ <http://camosun.ca/about/mental-health/emergency.html> or <http://camosun.ca/services/sexual-violence/get-support.html#urgent>

### College Services

Camosun offers a variety of health and academic support services, including counselling, dental, disability resource centre, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit the **STUDENT SERVICES** link on the College website at <http://camosun.ca/>

### College Policies

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies. Policies are available on the College website at <http://camosun.ca/about/policies/>. Education and academic policies include, but are not limited to, Academic Progress, Admission, Course Withdrawals, Standards for Awarding Credentials, Involuntary Health and Safety Leave of Absence, Prior Learning Assessment, Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, Student Appeals, Student Conduct, and Student Penalties and Fines.

## A. GRADING SYSTEMS <http://camosun.ca/about/policies/index.html>

The following two grading systems are used at Camosun College:

### 1. Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D		1
0-49	F	Minimum level has not been achieved.	0

### 2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

Grade	Description
COM	The student has met the goals, criteria, or competencies established for this course, practicum or field placement.
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.

## B. Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy at <http://camosun.ca/about/policies/index.html> for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete:</i> A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	<i>In progress:</i> A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
CW	<i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.