

**Preliminary Course Info (April 23, 2003)**

**Camosun College  
Department of Chemistry & Geoscience  
Chemistry 121-01  
Spring 2003**

**Instructor:** Diana Li  
**e-mail:** lid@camosun.bc.ca

**Office & Tel:** F344C, 370-3444

**Office Hours:**

**Mon & Wed: 14:30-15:30; Tue & Thu: 13:30-14:30**  
**(Additional office hours: before each test or by appointment.)**

**Prerequisite:** Chemistry 120

**Course Materials:**

- ♦ “Chemistry, The Central Science” by Brown, LeMay & Bursten, 9<sup>th</sup> Ed., 2003--a.k.a. B-L-B.  
If you are using the 8<sup>th</sup> Ed. B-L-B, please pick up the 8<sup>th</sup> Ed. B-L-B question list with notes outline from Di. The 9<sup>th</sup> Ed. question list with notes outline are in Di's Sup already.
- ♦ Chemistry 121 Lecture Notes Supplement & Appendix by Diana Li, 2002/3 Edition-a.k.a. Sup
- ♦ Chemistry 121 Lab Manual, Camosun College  
(Safety glasses mandatory and lab coat recommended)

**Lecture Plan:**

Ch.	(#Lec)	
14	(7)	Chemical Kinetics
25	(10)	Organic Chemistry
5	(4)	Thermochemistry
19	(3)	Chemical Thermodynamics
15	(3)	Chemical Equilibrium
16	(3)	Acid-Base Equilibria
17	(6)	Additional Aspects of Aqueous Equilibria
20	(2)	Electrochemistry

**Evaluation:**

Lab (up to 9 Experiments)	20%	
Test I (Ch. 14)	12%	(Week II, 1.5 hours on Friday)
Test II (Ch. 25)	12%	(Week IV, 1.5 hours on Friday)
Test III (Ch. 5, 19, 15)	16%	(Week VI, 2.5 hours on Wednesday)
Final Exam (comprehensive)	40%	(TBA ~Week V, 3 hours in June)

**Notes:**

- (1) Week V, Wednesday, June 4 is the Last Day to Withdraw....
- (2) Students must pass the lab portion of the course to obtain credit for Chem 121. If fewer than 9 experiments can be scheduled, you may be asked to make up a missed lab & lab report must be submitted by the due date. Otherwise, an “I” grade will be given for your lab work which leads to an “I” grade for the course. Perfect lab attendance then will be rewarded with 1.0% on your final grade for the course.
- (3) Student must write each test as scheduled for your section. No one is allowed to write late and there will be no make-up test—no exceptions. Student is encouraged to attempt all tests. Any missed test will result in its weight being automatically redistributed to the final exam. Any test score that is not better than your final exam will be dropped and weight redistributed to your final exam also. For the gambler who misses both tests, your final exam will then be 80% of your course grade. YIKES!!

**\*TEST DATES & LAB SCHEDULE TO BE CONFIRMED DURING THE FIRST WEEK OF CLASSES.**

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Di’s Sup already.

♦ Chemistry 121 Lecture Notes Supplement & Appendix by Diana Li, 2002/3 Edition;  
\$17.75 + tax.

♦ Chemistry 121 Lab Manual, Camosun College; \$8.75 + tax.  
(Safety glasses mandatory and lab coat recommended)

Lecture Plan:

Ch.	(#Lec)	
14	(7)	Chemical Kinetics
25	(10)	Organic Chemistry
5	(4)	Thermochemistry
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Final Exam (comprehensive)	40%	(TBA ~Week V, 3 hours in June)

Notes:

- (1) Students must pass the lab portion of the course to obtain credit for Chem 121.
- (2) Student is encouraged to attempt all tests. Test score that is not as high as that of the June final exam will be dropped automatically and its weight redistributed to the final exam. You may choose not to write one or more tests and have each weight redistributed to the final exam. For the gambler who misses both tests, your final exam will then be 80% of your course grade. YIKES!!
- (3) Student must write each test as scheduled. No one is allowed to write late and there will be no make-up test. No exceptions.

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Grading Scale:

A+	95-100%
A	90-94%
A-	85-89%
B+	80-84%
B	75-79%
B-	70-74%
C+	65-69%
C	60-64%
D	50-59%
F	<49%

Important Dates:Week

II	May 16 (Fri)	Test I in lecture (1.5 hours)
III	May 19 (Mon)	Victoria Day
IV	May 30 (Fri)	Test II in lecture (1.5 hours)
V	June 4 (Wed)	Last Day to Withdraw....
VI	June 11 (Wed)	Test III in Lab (2.5 hours)

June 23-25: Exam Period for Spring 2003
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Chemistry 121-01 Spring 2003 Preliminary Lab Schedule:

April 23, 2003

Week	Activity	
I	May 5	General Info, Lab Orientation, & Lecture
	May 7	<b>Expt. 6</b> The Rate of Bromination of Acetone
II	May 12	Lecture
	May 14	Lecture
III	May 19	Victoria Day
	May 21	<b>Expt. 1</b> The Preparation of XSA
	May 23	<b>Expt. 10</b> Thermochemistry—a 2-hour lab!
IV	May 26	<b>Expt. 3</b> The Preparation of Benzoic Acid- <b>Group A</b>
	May 28	<b>Expt. 3</b> The Preparation of Benzoic Acid- <b>Group B</b>
V	June 2	<b>Expt. 2</b> The Analysis of an Unknown Acid
	June 4	<b>Expt. 4</b> Banana Oil
VI	June 9	<b>Expt. 8</b> The Gravimetric Determination of Chloride Ions
	June 11	Test III in Lab (2.5 hours)
VII	June 16	Lecture
	June 18	<b>Expt. 9</b> Synthesis of Copper (I) Chloride

**Evaluation:**

**Results ; Report**

Expt. 6 Rate of Bromination of Acetone	/4	/16	/20
Expt. 1 XSA	/2	/8	/10
Expt.10 Thermochemistry	/3	/12	/15
Expt. 3 Preparation of Benzoic Acid	/2	/8	/10
Expt. 2 Analysis of an Unknown Acid	/2	/8	/10
Expt. 4 Banana Oil	/5	no report	/5
Expt. 8 Gravimetric Determination of Chloride	/5		/5
Expt. 9 Synthesis of Copper (I) Chloride	/5	no report	/5

(1) You are not required to hand in any prelab assignment, however, you may get a surprise lab quiz regarding the introduction & procedure at the beginning of the lab period which is weighed 2 marks, thus, reducing the weight of the lab report. This is to ensure that you will prepare ahead for each experiment.

(2) Your report should be neat & tidy, written in ink or typed on one side of paper only. Calculations may be done in pencil. The original raw data bearing Di's initial must be attached to the back of the report. You may redo or reorganize your experimental data as part of your report if you wish. Data sheets are available for a number of experiments and will be distributed a week before the experiment.

(3) All reports due on due date and time indicated on day of the experiment. Whenever possible, all graded lab reports will be returned before the next set of reports are handed in. **A penalty of 10% per day late (or part of) will be applied and maximum of 2 days late. Once graded reports are returned to students, any late report will be corrected but will not get a grade.**

(4) Absent from an experiment: You may be asked to make up a missed lab & lab report must be handed in by the due date. Otherwise, an "I" grade will be given for your lab work which leads to an "I" grade for the course.

(5) Perfect Lab Attendance: 1.0% will be added to your final course grade as a reward.

