

# Camosun College Chemistry 150B

## Quarter 3 - April to June, 2002

**Instructor:** Blair Humphrey, CBA 146, Telephone 370-4447

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Office hours: Wednesday 1030-1220

**Text:** Brown, Lemay and Bursten, Chemistry: The Central Science 8<sup>th</sup> ed. Solution guide optional but recommended.

**Lab. Manual:** Instructions provided

### Evaluation

### Grading as in calendar

Laboratory (5)	14%
Quizzes (4)	16%
Midterm	20%
Final	50%
<b>Total</b>	<b>100%</b>

Quizzes will be held at the start of a Wednesday afternoon session, and will be on topics of the previous week only.

### Blair's timetable for Q3 and Spring, 2002

	Monday	Tuesday	Wednesday	Thursday	Friday
830 920	C060 Tech 230	C060 Tech 230	C060 Tech 230	C060 Tech 230	C060 Tech 230
930 1020	C060 Tech 230	C060 Lab Tech 230	C060 Tech 230	C060 Lab Tech 230	C060 Tech 230
1030 1120		C060 Lab Tech 230		C060 Lab Tech 230	
1130 1220					
1230 1320					
1330 1420					
1430 1520			C150B Tec 230	C150B Lab Tec 230	
1530 1620		C150B Tec 230	C150B Tec 230	C150B Lab Tec 230	
1630 1720		C150B Tec 230		C150B Lab Tec 230	

### Course Outline

Week	Tuesday	Wednesday	Thursday
<b>April 2-4</b>	Liquids, vapour pressure, mixtures, phase diagrams	Liquids, solids, structure and bonding	Lab 6: Distillation Group 1
<b>April 9-11</b>	Polymers Ceramics	<b>Quiz 1</b> Solutions	Lab 6: Distillation Group 2
<b>April 16-18</b>	Solutions	Kinetics	Lab 7: Gravimetric determination of chloride. Group 1
<b>April 23-25</b>	Kinetics	<b>Quiz 2</b> Equilibrium	Lab 7: Gravimetric determination of chloride. Group 2
<b>April 30- May 2</b>	Equilibrium	Acid base equilibria	Lab 8: Bromination of acetone Group 1
<b>May 7-9</b>	Acid base equilibria	<b>Midterm</b> Aqueous equilibria	Lab 8: Bromination of acetone Group 2
<b>May 14-16</b>	Aqueous equilibria	Aqueous equilibria	Lab 9: pK <sub>a</sub> of acetic acid Group 1 <b>Full report</b>
<b>May 21-25</b>	Aqueous equilibria	<b>Quiz 3</b> Thermodynamics	Lab 9: pK <sub>a</sub> of acetic acid Group 2 <b>Full report</b>
<b>May 28-30</b>	Thermodynamics	Thermodynamics	Lab 10: Faraday's Constant
<b>June 4-6</b>	Electrochemistry	<b>Quiz 4</b> Electrochemistry	Lab 10: Faraday's constant
<b>June 11-11</b>	Electrochemistry	Metals	Review
<b>June 17-21</b>	Exam week		

### BLB chapter and assignments

<p><b>12:</b> 13-22,30,33,44  <b>13:</b> 1,3,8-11,13,15,17,19,23,25,27,31,45,47,57  <b>14:</b> 5,6,11,31-35,49,50,59,64  <b>15:</b> 3,7-16,19-26,27-42  <b>16:</b> 7,8,15,16,23-27,33-38,41,42,47</p>	<p><b>17:</b> 2-6,9-20,25-32,35-46  <b>19:</b> 1,2,5,7,13,43,47,57  <b>20:</b> 3-10,13,14,23-32,35,36,43,44,67,71-74  <b>23:</b> 5,6,9,11,14,16,23-28,</p>
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