

# Camosun College Chemistry 150A

## Winter Quarter - January to March, 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:** excerpts from Chemistry 150 Laboratory Manual, Camosun College, 1996. Find them on the web site

### Course Outline

Date	Topic	
	Morning	Afternoon
Jan. 2		Registration, lab safety introduction
Jan. 3	Measurement and the scientific method, atoms, elements, molecules	Compounds, mixtures, ionic and covalent molecules, the mole
Jan. 9		Laboratory #1: Density Group 1
Jan. 10	The periodic table	<b>Quiz 1;</b> Nomenclature: naming compounds
Jan. 16		Laboratory #1: Density Group 2
Jan. 17	Chemical reactions	Stoichiometry
Jan. 23		Laboratory #2: Stoichiometry Group 1
Jan. 24	Thermochemistry	<b>Quiz 2;</b> Thermochemistry
Jan. 30		Laboratory #2: Stoichiometry Group 2
Jan. 31	Atomic structure	Atomic structure
Feb. 6		Laboratory #3: Spectroscopic determination of nickel. Group 1
Feb. 7	Atomic structure	<b>Midterm</b>
Feb. 13		Laboratory #3: Spectroscopic determination of nickel. Group 2
Feb. 14	Molecular structure	Molecular structure
Feb. 20		Laboratory #6: Thermochemistry Group 1
Feb. 21	Molecular shape,	<b>Quiz 3;</b> Molecular shape
Feb. 27		Laboratory #6: Thermochemistry Group 2
Feb. 28	Molecular shape, size and bond strength	<b>Quiz 4;</b> Intermolecular forces
Mar. 6		Laboratory #5: VSEPR Group 1
Mar. 7	Gases	<b>Quiz 5;</b> Liquids and solids
Mar. 13		Laboratory #5: VSEPR Group 2
Mar. 14	Modern materials	Review
Mar. 18-22	Exam period	

### BLB chapter and assignments

<b>1:</b> 1,2,3,4,7,8,9,10,23,24,25, 26,31-38,39-50	<b>2:</b> 13-18,19-38,41-44
<b>3:</b> 5-8,9-14,15-24,29,30, 33,43,45-50,59-66,71-79	<b>4:</b> 5,6,9,10,13,14,34,37,38,40 51,52,53,54,67,68,96,97
<b>5:</b> 25-36,37-46,47-54,55-66	<b>6:</b> 59-70
<b>7:</b> 5,6,9,10,19-25,35-40,41-47	<b>8:</b> 1-10,21-28,29-44,47-56, 58-62,63
<b>9:</b> 13,14,17,18,19,20,42,61,62,63,72	<b>10:</b> 3-10,17-20,21-26,35-38,41-46,47-56,71-74
<b>11:</b> 7-22,23-26,33-36, 47-52, 61,62,65,73-76	<b>12:</b> 13-22,30,33,44

### Grading as in calendar, p 39

Laboratory	15%
Quizzes	15%
Midterm	20%
Final	50%
<b>Total</b>	<b>100%</b>

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

### Blair's timetable Q2, 2002

	Monday	Tuesday	Wednesday	Thursday	Friday
830-920		C160 Tech 230			
930-1020		C160 Tech 230			
1030-1120				C150A Tech 230	
1130-1220			Office CBA 146	C150A Tech 230	
1230-1320	Office CBA 146	C102/204 F302	Office CBA 146	Office CBA 146	C160 Lab Tech 230
1330-1420	Office CBA 146	Office F358	C150A Tech 230		C160 Lab Tech 230
1430-1520	C160 Tech 230		C150A Tech 230		
1530-1620	C160 Tech 230		C150A Tech 230	C150A Tech 230	
1630-1720				C150A Tech 230	

Shaded times are at Lansdowne Campus