

B. SUGGESTED READING:

Text: " Chemistry, A Molecular Approach " 3st ed , by Nivaldo Tro is sold at the UVM bookstore. The solutions manual that comes with the text has the complete solutions to all the assigned problems. The study guide while not required can be a help with problem solving.

Login: jsharp@uvm.edu Pass Word: SHARPFALL2014

Lab Manuals: "Chemistry 31, Experiments ", which is sold at the first floor stockroom, A-143 Cook, for \$15.00. "Working Safely With Chemicals" 2nd Ed, and a carbon-less copy lab notebook. which are sold at the UVM bookstore.

Class Notes and Old Tests: My class notes and the tests that were given to my Chemistry 31 class in the fall of 2010 and 2011 are posted on Blackboard. The test questions will change but the format will remain the same.

C. Laboratory:

Attendance: Students must attend the lab section they are assigned to. Official documentation of sickness or family crisis is required if a lab is missed. Unexcused absences will result in a ZERO grade for that laboratory experiment. In order to take a lab at a time other then your assigned time one must obtain the permission of the instructor a week in advance. If more then two labs are missed you will receive an **F** for the course. Only the academic dean of your college may grant an incomplete.

Lab Safety: It is of utmost importance that UVM Chemistry students are knowledgeable in basic laboratory safety tenets before beginning the lab portion of any chemistry course offered at UVM. To satisfy this requirement all students are required to take and pass our Lab Safety Quiz before doing any lab work. The LSQ is accessed from Blackboard, and allows for students to retake the quiz (as many times as needed) until they score an 80% or higher. Your score from the LSQ will be recorded on Bb and until you have passed the LSQ you will not be permitted to take part in lab.

Lab Videos: Prior to the attending a lab section it is mandatory to watch the video that accompanies that lab. The videos demonstrate the proper use of new equipment, and the safe handling of chemicals. The videos are found at <http://www.uvm.edu/~chem/courses/?Page=31Videos.html>

Breakage Card: A breakage card (\$40.00) must be purchased from the first floor stockroom, A-143 Cook, prior to the first lab. It is advisable to purchase this card as soon as possible in order to avoid hav o. htufr. b (e)-36 (r)70 (t)-22 (h)-40 -57 (t)(e)-36

Example 2:

$$\begin{array}{r}
 563 \text{ class pts} \\
 + \underline{160 \text{ lab pts}} \\
 723 \text{ total pts} = C
 \end{array}$$

2. TENTATIVE LABORATORY SCHEDULE

<u>Date</u>	<u>Experiment</u>	<u>Description</u>
10 - 13 SEP	1	A. Lab Safety I (I-IV in WSWC) B. Density
17 - 20 SEP	2	A. Lab Safety II (V-XI in WSWC) B. Hydrated Salt
24 - 27 SEP	3	Mole Ratio
1 - 4 OCT	4	Acid Content of a Food Product
8 - 11 OCT	5	Syn and Ident of Coord Cpd
15 - 18 OCT	6	Gas Law Determination of MW
22 - 25 OCT	7	Heat Capacity of a Calorimeter
29 OCT - 1 NOV	8	ΔH° of MgO
5 - 8 NOV	9	Flame Emission Spec of Metals
12 - 15 NOV	10	Qualitative Analysis
19 - 23 NOV	THANKSGIVING	
26 - 29 NOV	10	Finish Qual Analysis Check-out

3.

30 AUG	Finish Ch1 Start 2	Ch2: 6,13 thru 24,6,10,13,15,21,31,39,41,47,50, 53,57,61,69,72,77,81,85,98,106,111
4 SEP	Finish 2	
6 SEP	Start 3	Ch 3: 2,4,8,14,32,34,37,44,47,49,52,57,61,67,69,72, 77,81,85,89,91,97,101,113,117,121,126
		electronegativity from Ch 9 (Sec 9.6) p372-373) Ch 9: 19
11 SEP	3	
13 SEP	4	Ch4: 2,5,10,11,13,26,27,31,33,37,43,46,50,53,55,57, 60,63,65,71,75,98,101,107,111,114,117,120
		Will cover acid-base titrations but not the relative strength of acids-bases from sect 4.8. Will not cover REDOX reactions from 4.9
18 SEP	Finish 4	
19 SEP	EXAM 1 ch: 1, 2, 3, 4(sec .1-.6), electronegativity 9(sec.6)	
20 SEP	5	ch5: 1,9,12,15,17,21,24,32,34,36,38,42,45,47,49, 52,58,63,66,71,77,80,82,83,86,89,95,98,101, 104,106,111,115,121,127,129
25 SEP	5	
27 SEP	Finish 5 Start 6	ch6: 6,10,11,13,15,19,21,25,32,35,39,42,44,46,49, 53,56,58,61,64,67,71,74,77,80,.83,85,87,91,

28 NOV **EXAM 4 ch: 10(sec .8), 11, 9(sec .4)**

29 NOV Review

4 DEC Review