

<b>Chem 130</b>	<b>Lecture Schedule</b>	<b>Fall 2019</b>
<b>Week of</b>	<b>Topic</b>	<b>Chapter</b>

Aug.19	Matter, Measurement, and Problem Solving	1
Aug.26	Atoms and Elements	2
Sept.2	Molecules, Compounds, and Chemical Equations	3
Sept.9	Chemical Reactions and Chemical Quantities	4
Sept.16	Chemical Quantities (cont.)	4
Sept.23	Solutions and Aqueous Reactions	5
Sept.30	Gases	6
Oct.7	Gases/Thermochemistry	6,7
Oct.14	Thermochemistry	7
Oct.21	The Quantum Mechanical Model of the Atom	8
Oct.28	Periodic Properties of the Elements	9
Nov.4	Chemical Bonding I: The Lewis Model	10
Nov.11	Chemical Bonding II	11
Nov.18	Liquids, Solids, Intermolecular Forces	12
Nov.25	FALL BREAK NO CLASSES	
Dec.2	Solutions	14
Dec.9	Last exam	

**FINAL EXAM...comprehensive**  
**130 (MW 5:30) Wednesday, Dec.11 5:30-7:30**  
 (regardless of what the catalogue says)

<u>Week of</u>	<u>Experiment</u>	<u>Related Chapter</u>
Aug.19	Introduction to Computer Interfacing; Check-in	
Aug.26	Measurement Techniques and the Determination of Density	1
Sept.2***	Physical and Chemical Changes	2,3
Sept.9	Law of Definite Proportions and Types of Chemical Reactions	3
Sept.16	Quantitative Analysis: Percent Acetic Acid in Vinegar ( <b>HANDOUT</b> )	4
Sept.23	Chemical Stoichiometry: The Determination of Vitamin C	5
Sept.30	The Gas Laws: Boyle's Law and Charles' Law	6
Oct.7	Evaluation of the Gas Law Constant	6
Oct.14	Hess' Law: Calorimetry	7
Oct.21	Identification of Common Chemicals	
Oct. 28	Fabric of the Cosmos: Quantum Leap (video and handout)	8
Nov.4	Beer's Law: Colorimetry of Copper (II) Solutions	8
Nov.11	Molecular Structure	10
Nov.18	Valence Bond Theory: Hybridization	
Nov.25	<b>College Closed</b>	11
Dec.2	Separation of Mixtures by Paper Chromatography	13
Dec.9	<b>ONLY the MONDAY LAB MEETS</b>	



**MATERIALS NEEDED: LAB PACKET  
SAFETY GLASSES (YOU WILL NOT BE ADMITTED  
TO LAB WITHOUT THESE)**

**\*\*\*\* From Sept. 2 until Dec. 9, the MONDAY LAB SECTION will perform the experiment from the preceding week.**

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**CHEM 130**

Physical Science Office (320B): Mailbox and Messages

<b>GRADING</b>	4 chapter exams	60%
	Final Exam	20%
	Lab Grade	20%
	Homework and Quizzes	borderline decisions

<b>Grading Scale</b>
<b>A 90-100%</b>
<b>B 80-89%</b>
<b>C 70-79%</b>
<b>D 60-69%</b>

**ABSENTEEISM**

It is your responsibility to obtain any material missed due to absence

**MAKE-UP POLICY**

**ANY MISSED EXAMS WILL BE MADE UP TUESDAY, DEC.3 AND WEDNESDAY, DEC.4 (TIMES TO BE ARRANGED) YOU MUST SIGN UP FOR ANY MAKE-UP EXAMS IN MY OFFICE PRIOR TO THIS DATE.**

Missed labs cannot be made up

**3 missed labs results in failure of the ENTIRE COURSE**

**HOMEWORK**

Collected at each exam.

**OFFICE HOURS**

MW 11:00-12:50....4:00-5:30

**others by appointment**

.....and the only things that are truly yours  
are those things that can't be lost in a shipwreck.