

## Calendar for Chem 130/Spring 2009

January 2009

Lab	M	W	F
			2
	5	7	9
	12	14	16
	19	21	23
No Lab	26 Intro/Expectations/ Matter/ Mixture vs. Pure Substances	28 Snow Day	30 Measurement/Numbers and Units

## February 2009

Lab	M	W	F
Lab 1 Calculators, Unit Conversions, Density	2 Scientific Notation/ Basic Atomic-Structure	4 Periodic Trends and Reactivity-Reactions of Alkali Metals and of Halogens-Nonmetals	6 Quiz-Atomic Structure/Periodic Trends/Orbital Shells and Subshells
Lab 2 How Much Chloride is in the Ocean?	9 Electronic Structure Periodic Trends –Atomic Radii Revisited	11 Octet Rule/Ionic Salts Formation and Formulas/Chemical Equations	13 Ionic Bonds/ Covalent Bonds/ Types of Bonds/ Lewis Structures
No Lab	16	18 Lewis Structures/3D shapes/loan pairs/ dipole/charge distribution	20 <b>Exam 1</b>
Lab 3 Physical and Chemical Change	23* Moles/Atomic Molar Mass/Calculations/Stoichiometry	25 Solutions/ Concentrations(Molarity,%, g/l, µg/ml, ppm, ppb)	27 Thermochemistry/ States of Matter/ Molecular interaction/ Bond Energy

\*Midterm

## March 2009

Lab	M	W	F
Lab 4 Conservation of Mass	2 Thermodynamics/ Reaction/Equ./Acids and Bases	4 Acids and Bases/ Defined/ Titrations	6 <b>Exam 2</b>
Lab 5 Titration and Analyses	9** Extra Day	11 Amino Acids and Proteins/Intro/Prim ary Structure/ Hydrolysis/Rigidity	13 Proteins/ Secondary Structure/Tertiary Structure/Denaturat ion
No Lab	16	18	20
Lab 6 Isomerism	23 Enzymes and Vitamins	25 Proteins/Body Regulation	27 Energy From Food/Oxidation/Phos phates/ATP
Lab 7 Proteins	30 Energy From Food/Electron Transfer/Cycles		

\*\* Pass/Fail Deadline and Course Withdrawl Deadline

**April 2009**

<b>Lab</b>	<b>M</b>	<b>W</b>	<b>F</b>
Lab 8 Carbohy drates		1 Carbohydrates- Types/Types of Sugars/Baterial Coats/Plants	3 Carbohydrates/Metabolis m/Glycogen/Diabeties
Lab 9 Preparat ion of Soap	6 Lipids/Structure/De tergents/Diet/Cell Membranes	8 Lipids/Cell Structure/Digestion	10 <b>Exam 3</b>
Lab 10 Salicyli c Acid Derivat ives	13 Protein Metabolism/Urea Cycle/Toxins	15 Nucleic Acids/Defined- Role/DNA Structure	17 Nucleic Acids and Protein Synthesis/Method
No Lab	20	22 Nucleic Acids and Protein Synthesis/Regulatio n	24 Nucleic Acids and Protein Synthesis/Genetic Vulnerabilities
	27 Genome/Genes/Traits /Chromosomes	29 Radiochemistry/Orig ins and Types	

## May 2009

Lab	M	W	F
No Lab			1 Radio chemistry and the organism
No Lab	4 Extra Day	6 Extra Day	8 <b>Exam 4</b>
No Lab	11 Review	13***	15
	18	20	22****
	25	27	29

\*\*\* Last Day of Classes

\*\*\*\*Last Day of Exam Week