

The schedule below will give you an idea of the topics that we will cover and the pace of the class. Please note that this schedule is tentative and the class may not necessarily follow it exactly as it appears below.

WK	DATE	MON	TUE (LAB)	WED	THU (LAB)
1	Jan 20-22		Lab intro/ Safety: YSIL Math Review	CH 1 – Chemical Foundations	Writing Formulas and Nomenclature Library Orientation
2	Jan 26-29	CH 1 – Measurement	Locker Check-in Exp 1: Sig. Figs. Exp. 2: Lib. Assignment*	CH 2 – Atoms, Molecules, and Ions	Exp 3: Composition and Formula of a Hydrate
3	Feb 2-5	CH 2 – Atoms, Molecules, and Ions	Exp 4: Mixing Alcohol and Water Exp 5: Identification of Reaction Products	CH 3 – Stoichiometry	Exp 6: Ions in Sol'n: Electrolyte Strength... <i>Stoichiometry (Handout)*</i>
4	Feb 9-12	CH 3 – Stoichiometry	Exp 7: Ions in Solution: Net Ionic Equations...	CH 4 – Chem Rxns/ Solution Stoichiometry	EXAM 1
5	Feb 16-19	President's Day Holiday No Classes	Exp 8: Determination of Copper in a Coin	CH 4 – Chem Rxns/ Solution Stoichiometry	Cont. Exp 8
6	Feb 23-26	CH 4 – Chem Rxns/ Solution Stoichiometry	Exp 9: Redox Reactions	CH 5 – Gases	Exp 10: Determination of the Gas Constant
7	March 2-5	CH 5 – Gases	Exp 11: Det. of NaHCO ₃ in Alka-Seltzer	CH 6 – Thermochemistry	Exp 12: Heat of Reaction
8	March 9-12	CH 6 – Thermochemistry	Exp 13: Calorimetry	CH 6 – Thermochemistry	<i>Con't Exp 13</i>
9	March 16-19	CH 6 – Thermochemistry	EXAM 2	CH 7 – Atomic Structure and Periodicity	Atomic Absorption Lab (Handout)
10	March 23-26	CH 7 – Atomic Structure and Periodicity	Exp 14: Crystal Violet Spectrometry	CH 8 – Bonding: General Concepts	Exp 15: Group Relationships and Periodic Properties
11	Mar 30-Apr 2	CH 8 – Bonding: General Concepts	Continue Exp 15	CH 8 – Bonding: General Concepts	No lab (Class Canceled)
12	Apr 6-10	Spring	Break	No	Classes
13	Apr 13-16	CH 9 – Covalent Bonding: Orbitals	Exp 16*: Model Making and Geometry	CH 9 – Covalent Bonding: Orbitals	Cont. Exp 16*
14	Apr 20-23	CH 9 – Covalent Bonding: Orbitals	EXAM 3	CH 10 – Liquids and Solids	Exp 17*: Metallic and Ionic Crystal Lattices
15	Apr 27-30	CH 10 – Liquids and Solids	Cont: Exp 17*	CH 10 – Liquids and Solids	Exp 24: Measuring Sulfur Dioxide in Wine
16	May 4-7	CH 11 – Solutions	Cont. Exp 24	CH 11 – Solutions	Exp.18: Evap. and Intermolecular Interactions Exp 19: Using F_{dep} to determine mol. wt.
17	May 11-14	CH 11 – Solutions	EXAM 4	CH 13 – Chemical Equilibrium	Exp 20: Acid Rain
18	May 18-21	CH 13 – Chemical Equilibrium	Exp 21: Chemical Equilibrium - Finding a constant, K_c	CH 13 – Chemical Equilibrium	Review Lab check-out

The FINAL EXAM will be on Wednesday, May 27th from 7:30-9:20am in 2450.

*Experiments denoted with an asterisk do not need to be done in your notebook. Results will be recorded in the supplement report form/s. A discussion of results should be attached.