

## Semester 1 Schedule

Date	Section to cover	Date	Section to cover
Tue. Aug. 3	Syllabus, Ch.1.1-2	Mon. Oct. 4	Ch. 7.1
Wed. Aug. 4	Ch. 1.3-5	Tue. Oct. 5	SEN ACT
R. Aug. 5	Ch. 1.5	Wed. Oct. 6	Ch. 7.2
Fri. Aug. 6	Ch. 1.6, Friday Exam	R. Oct. 7	Ch. 7.2, FE
Mon. Aug. 9	Ch. 2.1	<b>Oct. 8-18<sup>th</sup></b>	<b>Fall Break</b>
Tue. Aug. 10	Ch. 2.2-3	Tue. Oct. 19	Ch. 7.2
Wed. Aug.11	Ch. 2.3	Wed. Oct. 20	Ch. 7.3
R. Aug. 12	Ch. 2.4	R. Oct. 21	Ch. 7.3
Fri. Aug. 13	Ch. 2.4, Friday Exam	Fri. Oct. 22	Ch. 7.3
Mon. Aug. 16	Ch. 3.1	Mon. Oct. 25	Ch. 8.1
Tue. Aug. 17	Ch. 3.1	Tue. Oct. 26	Ch. 8.2
Wed. Aug. 18	Ch. 3.1-2	Wed. Oct. 27	Ch. 8.2
R. Aug. 19	Ch. 3.2	R. Oct. 28	Ch. 8.2
Fri. Aug. 20	Ch. 3.2-3, Friday Exam	Fri. Oct. 29	Ch. 8.3, FE
Mon. Aug. 23	Ch. 3.3	Mon. Nov. 1	Ch. 8.3
Tue. Aug. 24	Ch. 3.4	Tue. Nov. 2	Ch. 8.3
Wed. Aug. 25	Ch. 3.4	Wed. Nov. 3	Ch. 8.4
R. Aug. 26	Ch. 3.5	R. Nov. 4	Ch. 8.5
Fri. Aug. 27	Ch. 3.5, Friday Exam	Fri. Nov. 5	Ch. 6, FE
Mon. Aug. 30	Ch. 3.6	Mon. Nov. 8	Ch. 9.1
Tue. Aug. 31	Ch. 3.7	Tue. Nov. 9	Ch. 9.1
Wed. Sep. 1	Ch. 4.1 & 4.3	Wed. Nov. 10	Ch. 9.2
R. Sept. 2	Ch. 4.2 & 4.3	R. Nov. 11	Ch. 9.2
Fri. Sept. 3	Ch. 4.1-3 Review, Friday Exam	Fri. Nov. 12	Ch. 9.2, FE
<b>Mon. Sept. 6</b>	<b>Labor Day, No School</b>	Mon. Nov. 15	Ch. 9.3
Tue. Sept. 7	Ch. 4.4	Tue. Nov. 16	Ch. 9.3
Wed. Sept. 8	Ch. 4.4	Wed. Nov. 17	Ch. 9.3
R. Sept. 9	Ch. 4.4-5	R. Nov. 18	Ch. 9.4
Fri. Sept. 10	Ch. 4.5, Friday Exam	Fri. Nov. 19	Ch. 9.4, FE
Mon. Sept. 13	Ch. 4.5-6	<b>Nov. 22-26</b>	<b>Thanksgiving</b>
Tue. Sept. 14	Ch. 5.1	Mon. Nov. 29	Ch. 10.1
Wed. Sept. 15	Ch. 5.2	Tue. Nov. 30	Ch. 10.1
R. Sept. 16	Ch. 5.2	Wed. Dec. 1	Ch. 10.2
Fri. Sept. 17	Ch. 5.2-3, Friday Exam	R. Dec. 2	Ch. 10.3
Mon. Sept. 20	Ch. 5.3	Fri. Dec. 3	C.10.3, FE
Tue. Sept. 21	Ch. 5.4	Mon. Dec. 6	Ch. 10.3
Wed. Sept. 22	Ch. 5.4	Tue. Dec. 7	Ch. 10.4
R. Sept. 23	Ch. 5.4	Wed. Dec. 8	Ch. 10.5
Fri. Sept. 24	Ch. 5.4, Friday Exam	R. Dec. 9	Ch. 10.6
Mon. Sept. 27	Ch. 5.4	Fri. Dec. 10	C. 11.1,FE
Tue. Sept. 28	Ch. 6.1	Mon. Dec 13	Ch. 11.2-3
Wed. Sept. 29	Ch. 6.2	Tue. Dec. 14	Ch. 11.3
R. Sept. 30	Ch. 6.3	Wed. Dec. 15	Ch. 11.4
Fri. Oct. 1	Ch. 6.4, Friday Exam	R. Dec. 16	Ch. 11.5-6
		<b>Dec. 17-Jan 3</b>	<b>Christmas Break</b>

*Students must read chapter 12 over Christmas break!*

## Standards & Pacing Guide – Chapters Relate to Schedule Above

### Semester 1

**Chapter 1:** Fundamental math required for proper experimentation & data collection (significant figures, accuracy in measurements, etc.). Also contains chemistry I review.

**Chapter 2:** Atomic theory and its evolution, current atomic models, history of chemistry, isotopes, nuclear reactions, molecular and empirical formulas, definite proportions. *Chem 2. PS1. 2, 16; Chem 2. PS2. 4*

**Chapter 3:** Atomic models, quantum chemistry, waves, electron configurations, quantum numbers, periodic trends, periodic table properties, molecular and ionic compounds. *Chem 2. PS1.1, 16; Chem 2. PS3.5; Chem 2. PS4.1, 2*

**Chapter 4:** Ionic & covalent bonding, nomenclature, Lewis structures, formal charge & resonance, molecular geometries. This chapter also provides a comprehensive review of chemistry I. *Chem 2. PS1.1, Chem 2. PS1.10, Chem 1. PS1. 16; Chem 2. PS2. 6*

**Chapter 5:** Advanced chemical bonding, VESPER theory, molecular orbital theory, hybridization. *Chem 2. PS1.1, Chem 2. PS1. 16; Chem 2. PS3. 6*

**Chapter 6:** Empirical formulas, formula mass, molarity, molality, solution concentrations. *Chem 2. PS1.2*

**Chapter 7:** Writing and balancing chemical equations, types of reactions, oxidation & reduction intro, stoichiometry, reaction yields. *Chem 2. PS1.11, 12, 15; Chem 2. PS3. 4, 7, 8*

**Chapter 8:** Gas laws & stoichiometry, kinetic molecular theory. *Chem 2. PS1.4, 5, 6*

**Chapter 9:** Basic thermodynamics, entropy, enthalpy, calorimetry calculations, bond energies. *Chem 2. PS3. 1, 6, 7, 8*

**Chapter 10:** Intermolecular forces, phases, solid state, lattice structures. *Chem 2. PS1. 3; Chem 2. PS2.1, 2*

**Chapter 11:** Dissolution, electrolytes, solubility, colligative properties. *Chem 2. PS1. 7*

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### Semester 2

**Chapter 12:** Advanced thermodynamics, Gibbs free energy. *Chem 2. PS3. 2, 3, 8*

**Chapter 13:** Equilibrium, Le Chatelier's principal, ICE tables. *Chem 2. PS1. 15; Chem 2. PS2. 5, 6*

**Chapters 14 & 15:** Acids & Bases, pH, buffers, equilibria, titrations, Lewis acids & bases, Ksp. *Chem 2. PS1. 14; Chem 2. PS2. 5, 6, 7*

**Chapter 16:** Electrochemistry, redox, galvanic cells, electrolysis. *Chem 2. PS1. 12, 13; Chem 2. PS3.8*

**Chapter 17:** Kinetics, rate laws, integrated rate laws, collision theory, reaction mechanisms, catalysts. *Chem 2. PS2. 3, 4*

**Chapter 18:** Representative chemistry, periodicity, elemental studies. *Chem 2. PS1.1, 8, 9; Chem 2. PS3. 3, 7, 8*