

CHM 1045
Spring 2007
Dr. Dudley's Sections (11-17)

General Chemistry I
Tentative Lecture Schedule

FLH 255
10:10-11:00 a.m.
MWF

Topics will be covered in order as given, though some may require more or less time than indicated.
Exam days are set and will not change.

Date	Chap.	Topic (Kotz, Treichel, and Weaver, 6 th Ed.)	Pages
Jan 8	M	1 Introduction, 1.1–1.2 (1.6–1.8 to be covered in recitation)	2-18 25-46
Jan 10	W	1,2 1.3–1.5, 2.1–2.2 Atomic Structure and Mass	18-25 58-69
Jan 12	F	2 2.3–2.5 Isotopes, Weight, and the Mole	69-77
Jan 15	M	MARTIN LUTHER KING DAY (No Class)	
Jan 17	W	2 2.6–2.7 Periodic Table and the Elements	77–88
Jan 19	F	2,3 2.8, 3.1–3.2 Elements and Molecular Formulas	88–89 96–103
Jan 22	M	3 3.3–3.5 Ionic and Covalent Compounds	103–119
Jan 24	W	3 3.6–3.7 Describing Compound Formulas	119–130
Jan 26	F	1-3 Review for test 1	
Jan 29	M	1-3 Hour Test 1	
Jan 31	W	4 4.1–4.2 Chemical Equations	140–148
Feb 2	F	4 4.3–4.4 Stoichiometry	148–157
Feb 5	M	4 4.5–4.6 Percent Yield and Analysis	157–165
Feb 7	W	5 5.1–5.4 Aqueous Solutions, Acids and Bases	174–195
Feb 9	F	5 5.6–5.7 “Redox” Reactions	195–205
Feb 12	M	5 5.8–5.10 Aqueous concentrations (pH)	205–221
Feb 14	W	6 6.1–6.3 Energy and Heat	232–250
Feb 16	F	6 6.4–6.6 Thermodynamics	250–261
Feb 19	M	6 6.7–6.9 Hess's Law and Thermochemistry	261–270
Feb 21	W	Interchapter: Fuel and Energy	282–292

Date	Chap.	Topic (Kotz, Treichel, and Weaver, 6 th Ed.)	Pages
Feb 23	F	4-6 Review for test 2	
Feb 26	M	4-6 Hour Test 2	
Feb 28	W	7 7.1–7.2 Electromagnetic Radiation (light)	294–305
Mar 2	F	7 7.3–7.4 Atom Spectra and the Wave/Particle Duality	305–314
Mar 5-9		SPRING BREAK	
Mar 12	M	7 7.5–7.6 Quantum Mechanics	314–323
Mar 14	W	7,8 7.7, 8.1 Orbitals and Electron Spin	323–324 332–338
Mar 16	F	8 8.2–8.3 Pauli Exclusion Principle, Aufbau Principle	338–343
Mar 19	M	8 8.4–8.5 Electron Configurations	343–353
Mar 21	W	8 8.6–8.7 Periodic Trends	353–365
Mar 23	F	7-8 Review for test 3	337-344
Mar 26	M	7-8 Hour Test 3	
Mar 28	W	9 9.1–9.3 Valence Electrons, Ionic Bonding	372–382
Mar 30	F	9 9.4 Covalent Bonding: Lewis Structures and Octet Rule	382–390
Apr 2	M	9 9.5–9.7 Covalent Bonding: Resonance and Molecular Shape	390–405
Apr 4	W	9 9.8–9.11 Covalent Bonding: Polarity and Bond Properties	405–425
Apr 6	F	12 12.1–12.2 Gases and Gas Laws	546–557
Apr 9	M	12 12.3–12.5 Behavior of Ideal Gases	557–567
Apr 11	W	12 12.6–12.9 Kinetic-Molecular Theory of Gases (Motion)	568–578
Apr 13	F	9,12 Review for test 4	
Apr 16	M	9,12 Hour Test 4	
Apr 18	W	11 11.1 Why Carbon?	474–481
Apr 20	F	Review for final exam	
Apr 25	W	FINAL EXAM Block Exam (Location TBA) (10:00 a.m.-12:00 p.m.)	