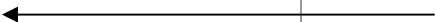
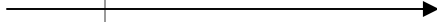


September/October 2006

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
24 	25 Lecture 1: Introduction to atomic and molecular structure PS 1 Assigned Outreach: 7-8 Hewlett 200	26 Section sign-up & conceptual test assignment close at 3PM OH: 2:15-3:30 (Stauffer I- 103A)	27 Lecture 2: Number in chemistry: stoichiometry Reading: 1.1-1.14, A1-A6 (30 pgs) Problems: 1-14, 40, 48, 50, 52, A6 Outreach: 7-8 Hewlett 200	28 Section 1 Stoichiometry/ Limiting Reactant/Balancing Chemical Equations	29 Section 1 (con't) Lecture 3: Reaction tables and limiting reactants Reading: 1.19-1.21, 2.1-2.4, 2.8 (13 pages) Problems: 1-136d, 144, 2-92, 8, 17b, 19, 45, 85 OH: 2:15-3:30 (Stauffer I- 103A)
1 OH: 7-10 (60-62A)	2 Lecture 4: Applications of stoichiometry PS 1 Due Outreach: 7-8 Hewlett 200	3 OH: 1-4 (Mudd 281), 2:15-3:30 (Stauffer I- 103A) & 7-10 (60-62A)	4 <i>1st EXAM In class</i>	5 Section 2 Reactive Metals and Potential Energy	6 Section 2 (con't) Lecture 5: Atomic structure, IEs & the 4 determinants of electronic structure Reading: 3.1-3.10 (17 pages) Problems: 3-2, 4, 34, 43, 45, 55 OH: 2:15-3:30 (Stauffer I- 103A)
8 Study list deadline OH: 7-10 (60-62A)	9 Lecture 6: Photoelectron spectroscopy & electron configurations Reading: 3.11-3.18(18pgs) Probs: 3-54, 56, 70, 76, 84 Outreach: 7-8 Hewlett 200 Activity Due	10 OH: 1-4 (Mudd 281), 2:15-3:30 (Stauffer I- 103A) & 7-10 (60-62A)	11 Lecture 7: Periodic trends, average valence electron energy and introduction to bonding Reading: 3.19-4.4 (14 pages) Probs: 3-147, 150, 155, 160, 186, 4-2 Outreach: 7-8 Hewlett 200	12 Section 3 Electronic structure	13 Section 3 (con't) Lecture 8: Drawing Lewis structures and assigning formal charges Reading: 4.5-4.12 (17 pages) Problems: 4-14, 17, 22, 28, 42, 57 OH: 2:15-3:30 (Stauffer I- 103A)
15 Add deadline OH: 7-10 (60-62A)	16 Lecture 9: Applications of Lewis dot structures PS 2 Due Outreach: 7-8 Hewlett 200	17 OH: 1-4 (Mudd 281), 2:15-3:30 (Stauffer I- 103A) & 7-10 (60-62A)	18 <i>2nd EXAM In class</i>	19 Section 4 Electron density maps/Molecular geometry	20 Section 4 (con't) Lecture 10: Predicting and drawing the shapes of molecules Reading: 4.13-4.17 Ch. 4 Problems: 78, 85, 86, 105 OH: 2:15-3:30 (Stauffer I- 103A) PS 3 Assigned
22 Drop deadline OH: 7-10 (60-62A)	23 Lecture 11: Partial charge, dipoles and ionic bonding Reading: Problems: Outreach: 7-8 Hewlett 200 Activity Due	24 OH: 1-4 (Mudd 281), 2:15-3:30 (Stauffer I- 103A) & 7-10 (60-62A)	25 Lecture 12: Metallic bonding and the bonding triangle Reading: 5.1-5.10 Ch. 5 problems: 16, 30, 47, 62, 77 Outreach: 7-8 Hewlett 200	26 Section 5 Polarity	27 Section 5 (con't) Lecture 13: Oxidation reaction, oxidation numbers & nomenclature Reading: 5.11-5.17 Ch. 5 problems: 81, 84, 88, 101, 104, 123, 130, 131, 142 OH: 2:15-3:30 (Stauffer I- 103A)

October/November 2006					
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
29 OH: 7-10 (60-62A)	30 Lecture 14: Applications on bonding Reading: Probs: PS 3 Due – Outreach: 7-8 Hewlett 200	31 OH: 1-4 (Mudd 281), 2:15-3:30 (Stauffer I-103A) & 7-10 (60-62A)	1 3rd EXAM <i>In class</i>	2 Section 6 Gases	3 Section 6 (con't) Lecture 15: Gases Reading: 6.1-6.13 Problems 6-19, 20, 22 PS 4 Assigned OH: 2:15-3:30 (Stauffer I- 103A)
5 Change of grading basis deadline OH: 7-10 (60-62A)	6 Lecture 16: Partial Pressure Reading: 6.14-6.18, 6A2-6A3 Probs: 6-45, 48, 56, 6A-16, 21 Activity Due Outreach: 7-8 Hewlett 200	7 OH: 1-4 (Mudd 281), 2:15-3:30 (Stauffer I-103A) & 7-10 (60-62A)	8 Lecture 17: Kinetic Theory of Gases Reading: 7.1-7.4 Probs: 6-91, 6-101, 7-9, 7-14, 7-17, 7-20, 7-24 Outreach: 7-8 Hewlett 200	9 Section 7 Distribution of Kinetic Energy	10 Section 7 (con't) Lecture 18: The First Law, Heat, Work and Enthalpy Reading: 7.5-7.11 Probs: 7-26, 7-27, 7-34, 7-35, 7-36 OH: 2:15-3:30 (Stauffer I- 103A)
12 OH: 7-10 (60-62A)	13 Lecture 19: Applications of Enthalpy and Heat Capacity PS 4 Due Outreach: 7-8 Hewlett 200	14 OH: 1-4 (Mudd 281), 2:15-3:30 (Stauffer I-103A) & 7-10 (60-62A)	15 4th EXAM <i>In class</i>	16 Section 8 Calorimetry	17 Section 8 (con't) Lecture 20: Thermochemistry Reading: 7.12-7.16 Probs: 7-75, 7-77, 7-85, 7-87, 7-90 OH: 2:15-3:30 (Stauffer I- 103A)
19 Course withdrawal deadline	20 	21	22	23	24 
THANKSGIVING BREAK					

November/December 2006

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
26 OH: 7-10 (60-62A)	27 Lecture 21: Hess's law Outreach: 7-8 Hewlett 200	28 OH: 1-4 (Mudd 281), 2:15-3:30 (Stauffer I-103A) & 7-10 (60-62A)	29 Lecture 22: Phases of Matter Activity Due PS 5 Assigned Reading: 8.1-8.3 Problems: 8-3, 8-10, 8-15 Outreach: 7-8 Hewlett 200	30 Section 9 Vapor Pressure and Intermolecular Forces	1 Section 9 (con't) Lecture 23: Kinetic theory of liquids Reading: 8.4-8.9 Problems: 8-30, 8-33, 8-47, 8-52 OH: 2:15-3:30 (Stauffer I- 103A)
3 OH: 7-10 (60-62A)	4 Lecture 24: Solutions and solubility Reading: 8.10-8.15 Problems: 8-57, 8-63, 8-71 Outreach: 7-8 Hewlett 200	5 OH: 1-4 (Mudd 281), 2:15-3:30 (Stauffer I-103A) & 7-10 (60-62A)	6 Lecture 25: Ionic solutions and reactions PS 5 Due Outreach: 7-8 Hewlett 200	7 Section 10 Practice Exercises	8 Section 10 (con't) Lecture 26: Review OH: 2:15-3:30 (Stauffer I- 103A)
10 Review session: 7-10 Hewlett 200	11	12 OH: 1-4 (Mudd 281), 2:15-3:30 (Stauffer I-103A) & 7-10 (60-62A)	13	14 OH: 2:15-3:30 (Stauffer I-103A)	15 FINAL EXAM (8:30-11:30)