

Agenda 2, 2/6 to 2/15/18

Week 3

Tue (2/6)	Lecture	Finish Chapter 2, start Chapter 3 – Acids and Bases
	Concepts	Chapter 2: functional group review Chapter 3: Brønsted-Lowry acids and bases, “electron-pushing” in acid/base reactions, equilibrium, electron pushing, ARIO
	Homework	Klein: 3.36, 3.37, 3.39, 3.45, 3.47, 3.57, 3.60, 3.62 For lecture download and complete the following worksheet: <i>Functional Group Worksheet</i> For laboratory download and complete the following worksheet: <i>Infrared (IR) Functional Group Characteristic Frequencies Worksheet</i>
	Reading	Lecture: Klein, Sections 2.10-2.13; 3.1-3.4 - review Table 2.1 Medically Speaking – Drug Distribution and pK_a , (p. 103) Practically Speaking – Baking Soda versus Baking Powder (p. 120)
	Due	<i>Melting-point experiment (template), Dipole Moment exercise,</i>
	Lab	Introduction to Infrared (IR) Spectroscopy. Lab lecture – IR workshop. (<i>Pavia</i> Techniques 13 and 25)

Thur (2/8)	Lecture	Chapter 3 – Acids and Bases
	Concepts	Quiz 2 (resonance, functional groups, Chapter 2) leveling and solvent effects, counterions, Lewis acids/bases
	Reading	Lecture: Klein, Sections 3.5-3.9
	Lab	Introduction to IR spectra and boiling point determination (<i>Pavia</i> 8, also Techniques 13 and 25)

Week 4

Tue (2/13)	Lecture	Functional Group Lecture
	Concepts	Introduce naming rules for functional groups. Bring your <i>Functional Group Worksheet!</i>
	Homework	Klein: 3.36, 3.37, 3.39, 3.45, 3.47, 3.57, 3.60, 3.62
	Due	<i>Solubility experiment (template)</i>
	Reading	Review Table 2.1
	Lab	Crystallization (<i>Pavia</i> 3C)
Thur (2/15)	Lecture	Nomenclature Lecture I
	Concepts	Naming of organic compounds – name construction
	Reading	Klein: Appendix – Nomenclature of Polyfunctional Compounds (pp.1253-1255)
	Due	<i>Chapter 2, 3 homework, Functional Group Worksheet, Resonance Worksheet</i>
	Lab	Exam 1 (Chapters 1-3) in A 277 at 9:00-11:50 am