

Medicinal Chemistry: Research Techniques and Principles

Lecture Schedule - Fall 2009

Month	Day	Topic	Assignments
Sept.	Wed, 2	Literature Searching	Leonard ¹ -Chap. 17
	Tues, 8	Literature Searching	
	Wed, 9	Literature Searching	
	Mon, 14	ChemDraw	
	Wed, 16	PC Spartan	Leonard ¹ -Chap. 2,3
	Mon, 21	Quiz #1 (Literature, Computers)	
		Lab Techniques	Leonard ¹ -Chap. 7,8
	Wed, 23	Lab Techniques	Leonard ¹ -Chap. 5,6
	Mon, 28	Lab Techniques	Leonard ¹ -Chap. 4,9
	Wed, 30	Lab Techniques	Leonard ¹ -Chap. 12,13,14
Oct.	Mon, 5	Lab Techniques	Leonard ¹ -Chap. 10,11
	Wed, 7	Lab Techniques	Leonard ¹ -Chap. 15,16
	Mon, 12	Lab Techniques	
	Wed, 14	Lab Techniques	Anslyn ³ -Chap. 1
		Quiz #2 (Lab Techniques)	
	Mon, 19	Chemical Bonding	
	Wed, 21	Chemical Bonding	Anslyn ³ -Chap. 6
	Mon, 26	Stereochemistry	
	Wed, 28	Stereochemistry	Anslyn ³ -Chap. 2
Nov.	Mon, 2	Stereochemistry/Conformations	
	Wed, 4	Conformations	Problem Sheet
	Mon, 9	Conformations	
	Wed, 11	Exam #1 (Bonding, Stereochemistry, Conformations)	Anslyn ³ -Chap. 5
	Mon, 16	Acids & Bases	Anslyn ³ -Chap. 8 (pp 441-464)
	Wed, 18	Acids & Bases/Substituent Constants	Grossman ² -Chap. 1 (problems 4a,b,c,d,g, 5)
	Mon, 23	Substituent Constants/	Anslyn ³ -Chap. 11 Grossman ² -Chap. 2 (problems 2a,b,c,d,e,h,i,j,l,r)
	Mon, 30	Organic Reaction Mechanisms	
Dec.	Wed, 2	Organic Reaction Mechanisms	Anslyn ³ -Chap. 10 Grossman ² -Chap. 3 (problems 4a,b,c,h,o)
	Mon, 7	Organic Reaction Mechanisms	Grossman ² -Chap. 5
	Wed, 9	Organic Reaction Mechanisms	
		Exam #2 (Acids, Substituent Constants, Mechanisms)	

¹Reading assignments from Leonard, Lygo, & Procter – Advanced Practical Organic Chemistry

²Reading assignments and problem sets from Grossman - The Art of Writing Reasonable Organic Reaction Mechanisms

³ Reading assignments from Anslyn & Dougherty - Modern Physical Organic Chemistry