Medicinal Chemistry: Research Techniques and Principles Lecture Schedule - Fall 2017

Month	Day	Topic	Assignments
Sept.	Tues, 5	Chemical Bonding	Ansyln ¹ -Chap. 1 (<i>Note</i>)
	Thurs, 7	Chemical Bonding	Anslyn ¹ -Chap. 6
	Tues, 12	Bonding/Stereochemistry	
	Thurs, 14	Stereochemistry	Ansyln¹-Chap. 2
	Tues, 19	Conformations	
	Thurs, 21	Conformations	
	Tues, 26	Exam # 1 (Bonding, Stereochemistry,	Ansyln ¹ -Chap. 7
		Conformations)	
	Thurs, 28	Thermodynamics/Kinetics/Isotope	Ansyln ¹ - Chap. 8 (pp 421-
		Effects	441), Chap. 5
Oct.	Tues, 3	Acids & Bases	
	Thurs, 5	Acids & Bases/Substituent Constants	Ansyln¹- Chap. 8 (pp 441- 464)
Tues, Oct, 10, Thurs, Oct 12, Tues, Oct 17 and Thurs, Oct. 19 No Class			
	TD 04	(Will be rescheduled as needed)	1 0 10 576
	Tues, 24	Mechanisms - Additions	Ansyln ¹ - Chap. 10 (pp 576-602)
	Thurs, 26	Mechanisms – Additions/Eliminations	
	Tues, 31	Mechanisms – Eliminations	
Nov.	Thurs, 2	Exam # 2 (Thermo, Kinetics, Isotopes,	Ansyln ¹ -Chap. 11 (pp 627-
		Acid/Base, Subst. Const, Additions, Eliminations)	673)
	Tues, 7	Mechanisms - Substitution	Ansyln ¹ - Chap. 10 (pp 607-617)
	Thurs, 9	Mechanisms - Substitution	Ansyln ¹ -Chap. 15
	Tues, 14	Mechanisms - Pericyclic	
	Thurs, 16	Mechanisms - Pericyclic	Ansyln ¹ -Chap. 12
	Tues, 21	Mechanisms – Pericyclic/Organometallic	See Footnote 3
	Thurs, 23	No Class - Thanksgiving	Leonard ² – Chap. 1,17
	Tues, 28	Exam # 3 (Substitutions, Pericyclics, Organometallics)	Leonard ² – Chap. 2,3
	Thurs, 30	Literature Searching	Leonard ² – Chap. 7,8
Dec.	Tues, 5	Literature Searching	Leonard ² – Chap. 4,5,6
	Thurs, 7	Lab Safety	Leonard ² – Chap. 9,10,16
	Tues, 12	Practical Aspects of Synthetic Medicinal Chemistry	Leonard ² – Chap. 11
	Thurs, 14	Practical Aspects of Synthetic Medicinal Chemistry	Leonard ² – Chap. 12,13,14,15
	TBA	Exam # 4 (Lit., Safety, Practical Aspects)	12,13,14,13
	IDA	L'Aani π ¬ (Lii,, Sujety, I ractical Aspects)	

Note: Students should read Chapter 1 in Ansyln before the first class.

All reading assignments should be completed $\underline{\text{before}}$ the next class period. Please come to class prepared to answer questions.

¹ Reading assignments from Ansyln & Dougherty - Modern Physical Organic Chemistry

²Reading assignments from Leonard, Lygo, & Procter – Advanced Practical Organic Chemistry

³ It is suggested that students purchase and read Li, Limberaksi, and Pflum – Modern Organic Synthesis in the Laboratory