Medicinal Chemistry: Research Techniques and Principles Lecture Schedule - Fall 2016

Month	Day	Торіс	Assignments
Sept.	Wed, 7	Chemical Bonding	Ansyln ¹ -Chap. 1 (<i>Note</i>)
	Mon, 12	Chemical Bonding	Anslyn ¹ -Chap. 6
	Wed, 14	Bonding/Stereochemistry	
	Mon, 19	Stereochemistry	Ansyln ¹ -Chap. 2
	Wed, 21	Stereochemistry/Conformations	
	Mon, 26	Conformations	
	Wed, 28	Exam # 1 (Bonding, Stereochemistry, Conformations)	Ansyln ¹ -Chap. 7
Oct.	Mon, 3	Thermodynamics/Kinetics/Isotope Effects	Ansyln ¹ - Chap. 8 (pp 421- 441), Chap. 5
	Wed, 5	Acids & Bases	
	Mon, 10	Acids & Bases/Substituent Constants	Ansyln ¹ - Chap. 8 (pp 441- 464)
	Wed, 12	Mechanisms - Additions	Ansyln ¹ - Chap. 10 (pp 537- 575)
	Mon, 17	Mechanisms - Additions	Ansyln ¹ - Chap. 10 (pp 576- 602)
	Wed, 19	Mechanisms – Additions/Eliminations	
	Mon, 24	Mechanisms – Eliminations	
	Wed, 26	Exam # 2 (Thermo, Kinetics, Isotopes, Acid/Base, Subst. Const, Additions, Eliminations)	Ansyln ¹ -Chap. 11 (pp 627- 673)
	Mon, Oct 31-Wed,	Nov 2 No Class. If needed, these classes wil	l be rescheduled
Nov.	Mon, 7	Mechanisms - Substitution	Ansyln ¹ - Chap. 10 (pp 607- 617)
	Wed, 9	Mechanisms - Substitution	Ansyln ¹ -Chap. 15
	Mon, 14	Mechanisms - Pericyclic	
	Wed, 16	Mechanisms - Pericyclic	Ansyln ¹ -Chap. 12
	Mon, 21	Mechanisms – Pericyclic/Organometallic	See Footnote 3
	Wed, 23	No Class	Leonard ² – Chap. 1,17
	Mon, 28	Exam # 3 (Substitutions, Pericyclics, Organometallics)	Leonard ² – Chap. 2,3
	Wed, 30	Literature Searching	Leonard ² – Chap. 7,8
Dec.	Mon, 5	Literature Searching	Leonard ² – Chap. $4,5,6$
	Wed, 7	Lab Safety	Leonard ² – Chap. $9,10,16$
	Mon, 12	Practical Aspects of Synthetic Medicinal Chemistry	Leonard ² – Chap. 11
	Wed, 14	Practical Aspects of Synthetic Medicinal Chemistry	Leonard ² – Chap. 12,13,14,15
	TBA	Exam # 4 (<i>Lit., Safety, Practical Aspects</i>)	

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

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

All reading assignments should be completed before the next class period. Please come to class prepared to answer questions.