

CHEM-202 LABORATORY SYLLABUS

2010-2011 (102)

TEXT: WILLIAMSON, **ORGANIC EXPERIMENTS**, 9th edition

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WK	BEGIN	READING ASSIGNMENT	Analysis	PROBLEM S
1	12 Feb.	NO LABORATORY		
2	19 Feb.	Electrophilic Aromatic Substitution: Nitration of Methyl Benzoate CHAPTER #28, PAGE 309- 313 (310-312).	m.p. same day	#1,2,4
3	26 Feb.	The Sandmeyer Reaction: 2-Iodobenzoic Acid CHAPTER #45, Expt. 4, Page 444-450 (449-450)	m.p. same day	#1
4	5 March	IR and NMR Spectroscopy CHAPTER #12, p. (155-176), and CHAPTER #13, p. (177-195).	-----	#1,2,3,4
5	12 March	Reactions of Carbonyl Compounds Classification Tests CHAPTER #36, EXPT. 2, 4, 5 & 6, Page 364-382 (371-375)	m.p. same day	#1,2,3,4,5,6, 7,8,9,10
6	19 March	Grignard Reactions: Triphenylmethanol CHAPTER #38, EXPT. 1, 2 & 4, PAGE 338-400 (392-397)	-----	#1,2,3,4
7	26 March	Grignard Reaction: Triphenylmethanol continued, CHAPTER # 38, EXPT. 4, PAGE 388-400 (396-397)	m.p. same day	
8	2 April	The Benzoin Condensation CHAPTER #54, EXPT. 1, PAGE 521-525 (523)	m.p. next week	#1,2,3,4
9	9 April	No Labs*** April 9-13, 2011*** Midterm Vacation		
10	16 April	Part #A: Benzil from Benzoin CHAPTER #55, EXPT. 1, PAGE 526-531 (528). Part #B: Borohydride Reduction of Benzil, CHAPTER #56, PAGE 532-534 (532-533).	I.R. I.R.	#1,2 #1
11	23 April	Diels-Alder Reaction: cis-Norbornene-5,6-endo-dicarboxylic acid CHAPTER #49, EXPT. 2 & 3, PAGE 489-501 (493-495).	¹H NMR next day	#1,2
12	30 April	Dibenzalacetone by the Aldol Condensation CHAPTER #37, EXPT. 1, PAGE 383- 387 (384).	m.p. same day	#1,2,3,4,5,6
13	7 May	Acetanilide from aniline CHAPTER #46, EXPT. 1 & 2, PAGE 451-463 (456-457)	m.p. next week	
14	14 May	Sulfanilamide from Acetanilide CHAPTER #46, EXPT. 3, PAGE 451-463 (458-460)	m.p. next week	#1,2,3,4
15	21 May	FINISH ALL EXPERIMENTS AND SUBMIT COMPLETED LAB BOOK.		