

## LABORATORY SYLLABUSES

### CHEM 201 - Organic Chemistry I (Term 152)

TEXT: KENNETH L. WILLIAMSON, **ORGANIC EXPERIMENTS**, 9th edition

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WK	BEGIN	READING ASSIGNMENT	CHAPTER	PROBLEMS
1	17-Jan	<b>NO LABORATORY</b>		
2	24-Jan	SAFETY, LABORATORY EQUIPMENT AND CHECK IN. CHAPTER #1 & 2, PAGE 1-31. <b>CRYSTALLIZATION</b> CHAPTER #3, EXPT. 4, PAGE 32-49 (45-46). <b>MELTING POINT</b> CHAPTER #4, EXPT. 4, PAGE 50-64 (56-57).	CHAP #3 CHAP #4	# 4,7,8,9 # 2,3,5,6
3	31-Jan	<b>EXTRACTION</b> CHAPTER #8, EXPT. 1, PAGE 104 – 115 (114 – 115)	CHAP # 8	# 1,3,5,7
			<b>*Distribute Handouts for wk 4</b>	
4	07-Feb	<b>STUDIES OF ISOMERISM WITH MOLECULAR MODELS</b> (ROBERTS PAGE 141-148)*	<b>Bring your Models</b>	
5	14-Feb	<b>FRACTIONAL DISTILLATION</b> CHAPTER #5, EXPT. 3A, PAGE 65-76 (72-74).	CHAP # 5	# 2,5,6,7,9,11
6	21-Feb	<b>ISOLATION OF EUGENOL FROM CLOVES BY STEAM DISTILLATION, AND ITS ANALYSIS BY TLC</b> CHAPTER #6, EXPT. 3, PAGE 77-87 (84-87).	CHAP # 6	# 2,3,4
7	28-Feb	<b>FREE RADICAL CHLORINATION OF 1-CHLOROBUTANE</b> CHAPTER #11, 148-154, GAS CHROMATOGRAPHY CHAPTER #18, EXPT. 1, PAGE 233-244 (237-238).	CHAP # 18	# 1,3,4
8	06-Mar	<b>ALKENES FROM ALCOHOLS</b> CHAPTER #19, EXPT. 1, PAGE 245-250 (246-248). CHAPTER #18, UNSATURATION TESTS 3 A, B & C PAGE 239-243 (242-243).	CHAP # 19	# 2
<b>SEMESTER BREAK (13-17 March)</b>				
9	20-Mar	<b>CATALYTIC HYDROGENATION</b> CHAPTER #25, EXPT. 2, PAGE 287-296 (290-292).	CHAP # 25	# 2,3
10	27-Mar	<b>OXIDATION: CYCLOHEXANOL TO CYCLOHEXANONE</b> CHAPTER #22, EXPT. 1, PAGE 264-274 (266-269).	CHAP # 22	
11	03-Apr	<b>OXIDATION: CYCLOHEXANONE TO ADIPIC ACID</b> CHAPTER #22, EXPT. 3, PAGE 264-274 (271-272).	CHAP # 22	# 1
12	10-Apr	<b>FRIEDEL-CRAFTS ALKYLATION OF DIMETHOXY BENZENE</b> CHAPTER #29, EXPT. 2, PAGE 314-324 (318-319)	CHAP # 29	# 1,4,6
13	17-Apr	<b>ELECTROPHILIC AROMATIC SUBSTITUTION: NITRATION OF METHYL BENZOATE</b> CHAPTER #28, PAGE 309- 313 (310-312).	CHAP # 28	#1,2,3
14	24-Apr	<b>COMPLETE ALL EXPERIMENTS AND SUBMIT THE COMPLETED LAB NOTE BOOK</b>		
15	01-May	<b>Last week of Classes</b>		

*A minimum of four (4) quizzes in the lab. The quizzes will be assigned 20% of Lab grade.*