

# CHEMISTRY 201 LABORATORY SYLLABUSES

## CHEM-201 (Term 112)

TEXT: FIESER AND WILLIAMS, ORGANIC EXPERIMENTS, 9th edition

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WK	BEGIN	READING ASSIGNMENT	CHAPTER	PROBLEMS
1	28-Jan	<b>NO LABORATORY</b>		
2	04-Feb	SAFETY, LABORATORY EQUIPMENT AND CHECK IN. CHAPTER #1 & 2, PAGE 1-31. <b>MELTING POINT</b> CHAPTER #4, EXPT. 4, PAGE 50-64 ( <b>56-57</b> ).	CHAP # 4	# 2,3,5,6
3	11-Feb	<b>CRYSTALLIZATION</b> CHAPTER #3, EXPT. 4, PAGE 32-49 ( <b>45-46</b> ).	CHAP # 3	# 4,7,8,9
4	18-Feb	<b>FRACTIONAL DISTILLATION</b> CHAPTER #5, EXPT. 3A, PAGE 65-76 ( <b>72-74</b> ).	CHAP # 5	# 2,5,6,7,9,11
				<b>*Distribute Handouts for wk 5</b>
5	25-Feb	<b>STUDIES OF ISOMERISM WITH MOLECULAR MODELS</b> (ROBERTS PAGE 141-148)*	<b>Bring your Models</b>	
6	03-Mar	<b>ISOLATION OF EUGENOL FROM CLOVES BY STEAM DISTILLATION, AND ITS ANALYSIS BY TLC</b> CHAPTER #6, EXPT. 3, PAGE 77-87 ( <b>84-87</b> ).	CHAP # 6	# 2,3,4
7	10-Mar	<b>EXTRACTION</b> CHAPTER #8, EXPT. 1, PAGE 104 – 115 (114 – 115)	CHAP # 8	# 1,3,5,7
8	17-Mar	<b>FREE RADICAL CHLORINATION OF 1-CHLOROBUTANE</b> CHAPTER #11, 148-154, GAS CHROMATOGRAPHY CHAPTER #18, EXPT. 1, PAGE 233-244 ( <b>237-238</b> ).	CHAP # 18	# 1,3,4
9	24-Mar	<b>***NO LABS***MID-SEMESTER BREAK***</b>		
10	31-Mar	<b>ALKENES FROM ALCOHOLS</b> CHAPTER #19, EXPT. 1, PAGE 245-250 ( <b>246-248</b> ). CHAPTER #18, UNSATURATION TESTS 3 A,B & C PAGE 239-243 ( <b>242-243</b> ).	CHAP # 19	# 2
11	07-Apr	<b>OXIDATION: CYCLOHEXANOL TO CYCLOHEXANONE</b> CHAPTER #22, EXPT. 1, PAGE 264-274 ( <b>266-269</b> ).	CHAP # 22	
12	14-Apr	<b>OXIDATION: CYCLOHEXANONE TO ADIPIC ACID</b> CHAPTER #22, EXPT. 3, PAGE 264-274 ( <b>271-272</b> ).	CHAP # 22	# 1
13	21-Apr	<b>CATALYTIC HYDROGENATION</b> CHAPTER #25, EXPT. 2, PAGE 287-296 ( <b>290-292</b> ).	CHAP # 25	# 2,3
14	28-Apr	<b>FRIEDEL-CRAFTS ALKYLATION OF BENZENE</b> CHAPTER #29, EXPT. 1, PAGE 314-324 ( <b>316</b> )	CHAP # 29	# 2,4,6
15	05-May	<b>COMPLETE ALL EXPERIMENTS AND SUBMIT THE COMPLETED LAB NOTE BOOK</b>		

\*For clarification/further information, plz contact Dr. Mohammad Nahid Siddiqui or Mr. Ahmad Mian Bahauddin @4405