

Chemistry 0345: Organic Chemistry Laboratory

Summer 2018 (Term 2187)

Faculty Coordinator: Ericka Huston, 107 Chevron, ceder@pitt.edu, 412-624-7158

Laboratory Activity Documents: Available on the Chem 0345 CourseWeb. These will need to be printed and/or written into your lab notebook before each laboratory meeting. **Note:** Materials will be provided for Activity 1.

Goggles: Required for labs beginning with Activity 2. Available in bookstore. These goggles meet our strict safety standards for the teaching laboratories. No substitutes.

Making the Connections, 3rd edition, *Anne B. Padías.*

Carbonless Copy Student Notebook: Top-perforated

Laboratory Lectures: Monday and Wednesday 10AM-11AM Chevron 135

Laboratory Activities: Tuesday and Thursday 8AM-12PM Chevron 135 and 4th floor labs

Laboratory Activity #	Dates	Laboratory Activity Title
1	Mon 5-14 Lecture	Introduction to Organic Laboratory and Laboratory Safety
	Tues 5-15 Lab	
2	Wed 5-16 Lecture	Extraction and Recrystallization of Benzoic Acid
	Thurs 5-17 Lab	
3	Mon 5-21 Lecture	Analysis of Medicinally-Active Organic Compounds in Over-the-Counter Pain Relievers: Introduction to Chromatography
	Tues 5-22 Lab	
4	Wed 5-23 Lecture	Introduction to ¹ H NMR Spectroscopy
	Thurs 5-24 Lab 8AM-11AM	
	Thurs 5-24 11AM Lecture Activity 5,11	
5	Mon 5-28 Memorial Day No Lecture	Dehydration of Cyclohexanol
	Tues 5-29 Lab	
11	Wed 5-30 Midterm (1-5)	Forensic Chemistry: Synthesis and Photophysical Properties of Luminol
	Thurs 5-31 Lab	
10	Mon 6-4 Lecture	Organometallic Reagents in Organic
	Tues 6-5 Lab	
6	Wed 6-6 Lecture	Alkene Addition Reactions: Selective Markovnikov Hydrohalogenation of Carvone
	Thurs 6-7 Lab	
9	Mon 6-11 Lecture	Aldol Addition and Aldol Condensation Reactions: Crossed Aldol Reaction of 2-Acetylpyridine and 4-Nitrobenzaldehyde Chemistry
	Tues 6-12 Lab	
8	Wed 6-13 Lecture	Electrophilic Aromatic Substitution Reactions: Bromination of Aniline and N-Acetylaniline
	Thurs 6-14 Lab	
12	Mon 6-18 Lecture	Polymer Chemistry: Syntheses and Properties Check-Out and Surveys
	Tues 6-19 Lab	
13	Wed 6-20 Lecture	Final Exam Review in Lecture Final Exam Administered during lab time in room 135
	Thurs 6-21 Lab	