

ORGANIC CHEMISTRY 1 LAB SCHEDULE, FALL 2017

WEEK	DATES	TOPIC	WRITEUP DUE FOR WEEK #	ASSIGNED READINGS (bold is experiment itself)	QUIZ
1	8/29,31	Intro, check-in	-	Chp. 1-3	
2	9/5,7	The Reaction of Isoamyl Alcohol with Acetic Acid	-	Chp. 16 ,12,13,15	
3	9/12,14	The Reaction of Isoamyl Alcohol with Acetic Acid	-	Chp. 16 , 4	
4	9/19,21	Recrystallization of Benzoic Acid and Naphthalene	2,3 (isoamyl alcohol)	Chp. 11 , 8-10	
5	9/26,28	Solubility Tests	-	Chp. 11 , 10	QUIZ 1
6	10/3,5	Separation of a Mixture Containing Acidic, Basic, and Neutral Components	4 (recrystallization)	Chp. 14 ,10,12,13	
7	10/10,12	Separation of a Mixture Containing Acidic, Basic, and Neutral Components	5 (solubility tests)	Chp. 14 ,10,12,13	
8	10/17,19	Separation of a Mixture Containing Acidic, Basic, and Neutral Components	-	Chp. 13 ,11,12	
9	10/24,26	A Two Step Synthesis of Dilantin (part 1)	6-8 (extraction)	Chp. 20 ,18	
10	10/31,11/1	A Two Step Synthesis of Dilantin (part 2)	-	Chp. 20	QUIZ 2
11	11/7,9	Limonene (part 1)	9 (benzil, part 1)	Chp. 27 ,25	
12	11/14,16	Limonene (part 2)	10 (dilantin, part 2)	Chp. 27 ,26	
13	11/21,23	no lab	-	-	
14	11/28,30	A Competition Experiment	11,12 (limonene)	Chp. 22 , 21	
15	12/5,7	A Competition Experiment, clean hood/bench, checkout	14,15 (due 12/8)	-	QUIZ 3

GRADING: The lab component of your grade is 170 points out of the 666 for the course. There will be 8 grades for writeups, 15 points each, for 120 points. A typical grade for a writeup can be broken down into three parts: content of the writeup (60%), yield of the product (20%), purity of the product (20%). Late lab writeups will cost you 5 % per school day. Lab writeups cannot be turned in after the graded labs have been returned. There will also be three 10 point lab quizzes. Lab performance will be worth 20 points (see the Lab Performance Matrix).

USEFUL SUPPLEMENTARY SOURCES: One part of your lab writeup requires you to list several physical properties for the compounds involved in that particular experiment. This information should be obtained from:

The Aldrich Catalog - located in the lab and the reading room (also on the web at sigmaaldrich.com);

ACADEMIC INTEGRITY: Be aware that in accordance with the College's policy on academic honesty, any work you submit must be your own. Any instances of plagiarism (including copying answers from a classmate) will be penalized to the fullest extent possible and reported to the Provost and Dean of the College.

Lab Matrix	1 (poor)	2 (fair)	3 (good)	4 (outstanding)
Safety – Personal Attire	Must be frequently reminded to wear safety glasses, appropriate clothing or footwear. Brings food, drink, cell phone or other electronic device into lab.	Need occasional reminding about safety glasses or clothing/footwear. Does not bring food, drink or personal electronic devices into lab.	Consistently wears safety glasses. Wears appropriate clothing and footwear. Does not bring food, drink, or personal electronic devices into lab.	Consistently wears safety glasses and appropriate attire. Does not bring food, drink or personal electronic devices into lab. Never needs to be reminded of policy. Helps others follow safety rules.
Safety – Work Area and Hygiene	Spills are not cleaned-up right away. Bench or hood is left in poor condition on multiple occasions.	Bench and fume hood are not always left in good condition.	Keeps a clean, uncluttered work area. Bench and fume hood are cleaned at end of lab. Shared space (ie. reagent hood) is clean.	During lab, work area is clean, organized, and without clutter. Bench and fume hood are thoroughly cleaned and organized at end of lab. Checks shared space to ensure it is clean.
Lab Equipment and Chemicals	Improper disposal of chemicals on multiple occasions. Frequently fails to store equipment properly at end of lab. Leaves lids off reagents bottles.	Improper disposal of chemicals. May occasionally fail to store equipment properly at end of lab. Lids occasionally left off reagent bottles.	Personal and shared equipment stored properly at end of lab. Lids kept on reagent bottles. Chemicals are disposed of properly.	Personal and shared equipment stored properly. Lids kept on reagent bottles. Chemicals are disposed of properly. Helps to ensure that others do the same.
Preparation and Efficiency	Misses prelab or is significantly late on multiple occasions. Or, uses lab time poorly.	Is late to prelab on more than one occasion or does not work efficiently in lab.	Arrives on time or has been slightly late on one occasion. Works efficiently in lab.	Arrives on time. Works efficiently in lab. Uses “downtime” effectively (such as to prepare for later parts of the experiment).
Laboratory Technique	Completes experiments with little attention to technique. Careless or abusive with instruments/ equipment.	Basic proficiency at lab techniques. Or, not careful with equipment and/or instruments.	Careful execution of lab techniques. Handles equipment, instruments and chemicals with care.	Careful and skilled execution of lab techniques. Handles equipment, instruments and chemicals with care.