
ORGANIC CHEMISTRY II LAB - Spring 2008

Instructors: Dr. Geisler

Office: TLC 2120

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Office Hours: M, W 9-11:30; M 2-4; T, R 9:30-11

Lab: Chem 3411L T&W 2-5

Course Material: *Macroscale and Microscale Organic Experiments*, Williamson and a hardcover notebook with sewn pages is required

Safety Glasses are required to be worn at all times and can be purchased in the Chemistry Office.

Objectives: To apply the knowledge obtained in Chem 3422 lecture to problem solving in the laboratory. To develop good laboratory techniques; work safely; take data carefully; record relevant observation; use time effectively; assess the efficiency of your experimental method; plan for the isolation and purification of substances you prepare; and characterize substances you prepare by physical and spectroscopic means and synthesize organic substances.

Tardiness / Missed Lab: Lab attendance is mandatory. Unexcused absences will result in a grade of zero. No make-up labs will be permitted. At the beginning of each laboratory we will discuss the laboratory. You must be present. Lateness will be penalized by deduction from the grade for that lab.

Policies: Read all laboratory material before coming to lab and complete the [prelab](#). The labs will require preparation and careful work to complete in the allotted time. After completion of the lab, reports are due at the beginning of the following lab period. The format of these reports will vary and will be discussed in lab. Late reports will incur a 10% penalty for each day the report is late. If you do not wear your safety glasses you will be asked to leave the lab and will earn a grade of zero for the experiment.

Academic Misconduct: Honest in reporting results is one of the essential characteristics of your laboratory work. Little of your grade depends on getting "good" quantitative results. You will be more severely penalized for misrepresenting results than for honestly reporting "poor" results. Copying lab reports (any part) shall be considered academic misconduct and as a result, will be penalized to the fullest extent possible.

Grades: Instructor points: 10%, Reports: 70%, Lab Final 20%

Instructor points: your instructor will assign points based upon your efficiency, pre-lab preparation, cooperation, attitude, performance, and cleanliness.

Grading Scale: 90-100 A, 80-89 B, 70-79 C, 60-69 D, <59 F

LABORATORY SCHEDULE:

Week of	Experiment	Report
Jan 14	Check in	Data sheet
	Chapter 50: p-Terphenyl by the Diels Alder Reaction	
Jan 21	No Lab	
Jan 28	Chapter 29. Preparation of 1,4-di-t-butyl-2,5-dimethoxybenzene (Friedel-Crafts alkylation)	Data sheet
Feb 4	Chapter 28. Nitration of methyl benzoate	Data sheet
Feb 11	Chapter 26: Sodium borohydride reduction of 2-methyl cyclohexanone	Data sheet
Feb 18&25	Chapter 38. Grignard Synthesis of triphenylmethanol	Formal report
Mar 3	Chapter 39. Synthesis of trans-9-(2-phenylethenyl)anthracene (Wittig reaction)	Data sheet
Mar 10	Chapter 36. Derivative formation of aldehydes and ketones	Data sheet
Mar 24	Chapter 40. Esterification: Synthesis of benzylacetate	Formal report
Apr 7	Chapter 37. Dibenzalacetone by the aldol condensation	Data sheet
Apr 14	Chapter 44. Synthesis of 2-iodobenzoic acid. Sandmeyer reaction	Data sheet
Apr 21	Check out and final exam.	