

FLORIDA INTERNATIONAL UNIVERSITY

State University System of Florida

DEPARTMENT OF CHEMISTRY & BIOCHEMISTRY

CHM 2211L

ORGANIC CHEMISTRY LAB II

Fall 2008

LABORATORY SCHEDULE

This is the second semester of Organic Chemistry Laboratory. Organic Chemistry Lab I (CHM 2210L) is a prerequisite, and Organic Chemistry II (CHM 2211) is a co-requisite. Guidelines for this laboratory course are the same as those for Organic Chemistry Lab I. The experiments assigned this semester will generally require more than a single lab period for completion. Your lab manual or your instructor will suggest convenient stopping points. Preparing ahead for lab this semester is critically important; you **MUST** know what you are going to do and how to do it, or you will not be able to complete your experiments on time. You are expected to know how to perform all of the common techniques that you learned in CHM 2210L quickly and efficiently. The wise student will be prepared by carefully reviewing techniques as they are needed.

In order to work in the Organic Laboratory, you must have the following items with you at all times:

1. *Organic Chemistry Laboratory Manual* by L. Keller, Hayden-McNeil, 2008
2. A bound laboratory notebook with numbered pages and with original and duplicate sheets.
3. A simple calculator.
4. A pair of safety goggles or glasses.
5. A padlock for your lab drawer.
6. Protective clothing which covers everything except your head, neck, and hands (*e.g.*, long sleeve shirt or lab coat, long pants, covered shoes).
7. A ball point pen, any color except red.

<u>DATES</u>	<u>EXPERIMENT</u>
August 25,27,28	Check-in; Safety Rules; Review of Recrystallization
September 3,4,8	Oxidation of the Aromatic Side-Chain of an Unknown Chlorotoluene
September 10,11,15	Esterification of Benzoic Acid (Preparation of Methyl Benzoate)
September 17,18,22	Electrophilic Aromatic Substitution (Nitration of Methyl Benzoate)

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September 24,25,29

Nitration of Methyl Benzoate (cont'd)
Functional Groups: The Hydrocarbons

October 1,2,6

Functional Groups: Aldehydes & Ketones

October 8,9,13

Functional Groups: Alcohols & Phenols
Sodium Fusion

October 15,16,20

Functional Groups: Amines & Carboxylic Acids

22,23,27

Unknown #1

October 29,30, November 3

Unknown #1

November 5,6,10

Unknown #1
Unknown #2

November 12,13,17

Unknown #2

December 1,3,4

Final Exam; Checkout