

ORGANIC CHEMISTRY LAB 310 **FALL 2014**
(THE SECOND, ADVANCED PART OF ORGANIC LAB, FOR CHEMISTRY MAJORS)

IMPORTANT! YOU CANNOT TAKE CHEM 310 WITHOUT THE PREREQUISITE CREDITS FOR ORGANIC CHEMISTRY LAB (CHEM 309) AND LECTURE (CHEM 307-308, OR CHEM 315-316).

PROF. LESLIE JIMENEZ, Wright-Rieman Labs, room 323. (jimenez@rutchem.rutgers.edu)
Office Hours: Th. 3:30 - 4:30 pm, or by e-mail appointment (use **310** in the title of all e-mails)

Lecture for all sections: TUE 5:00 - 6:20 pm, WL-AUD
Labs: **Section 01**, TH 1:00 - 5:40 PM; **Section 02**, TUE 6:40 - 11:00 PM;
Section 03, TH 6:40 - 11:00 PM; **Section 04**, WED 1:00 - 5:40 PM.

All lab sections meet in WRL 331. **Wait in the Rieman Lobby until 5 min. before your lab.**

Course web site: A sakai site is set up for this course, and you should automatically be registered as a student member of this site. Important class announcements may be made through this sakai site in addition to announcements in the lecture class. The syllabus, lecture notes, and material safety data sheets (MSDS) will also be posted on this web site in the Resources section as pdf files.

I. SYLLABUS

NOTE: follow the book directions for Standard Scale reactions, unless instructed otherwise.

BLOCK 1 (notebooks due in lab 1st week of Block 2: 10/7,8,9).

Exp. 56 – multistep synthesis of benzylic acid; IR;
TLC and column chromatography.

<u>Week 1</u> 9/2,3,4	Safety Quiz. Check-in; Exp. 56A, benzoin condensation. mix reactants only.
<u>Week 2</u> 9/9,10,11	Finish Exp. 56A, start Exp. 56B.
<u>Week 3</u> 9/16,17,18	Finish Exp. 56B. IR: KBr disks. Start Exp. 56C. Start TLC of caffeine (not in book).
<u>Week 4</u> 9/23,24,25	Finish Exp. 56C. IRs. Caffeine TLC and caffeine extraction from tea (not in book). Exp. 56 exercise questions 1-3, 5, 7-9.
<u>Week 5</u> 9/30,10/1,2	Caffeine chromatography (silica gel column chromatography, not in book). Caffeine TLCs (crude and purified). Finish everything.

Exam 1 - October 7 in lecture (Block 1 topics + IR, NMR identification of unknown compounds).

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