ORGANIC CHEMISTRY II LABORATORY/PRELIMINARY SCHEDULE


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SCHEDULE: JMH 222/230; Mon – Thurs, 1:00 - 4:45 PM (according to tent. schedule); experimental protocols, assignments & lab lecture notes are posted on course Blackboard website.

LAB LECTURES: dates, location and exact meeting times TBA.

GRADING: expt. #2 in-lab & post-lab Qs (20%); practical exam (25%); lab exam (40%); expt. #4 report form (15%)

Lab techniques and analytical methods employed in this course: filtration, recrystallization, solid-liquid extraction, liquid-liquid extraction, thin-layer chromatography, mp determination, reflux reactions, rotary evaporation, infrared spectroscopy, $^1$H & $^{13}$C NMR spectroscopy, mass spectrometry.

EXPERIMENTS

Expt. #1 rapid isolation of sesamin from commercial sesame oil & an investigation of its acid-catalyzed epimerization

Expt. #2 electrophilic aromatic nitration of an unknown monosubstituted benzene

Expt. #3 establishing diastereoselectivity of hydride reduction of (+/-)-benzoin

Expt. #4 probing reactivity of $O,O$-acetals vs. $N,O$-acetals with NaBH$_4$ & Grignard reagents

Expt. #5 Part I - ungraded practice for practical exam

Expt. #5 Part 2 - qualitative organic analysis practical exam (1st set of unknowns)

Expt. #5 Part 3 - qualitative organic analysis practical exam (2nd set of unknowns)