ORIGINIC CHEMISTRY II LABORATORY/PRELIMINARY SCHEDULE


INSTRUCTORS: Prof. J. A. Ciaccio; ciaccio@fordham.edu; JMH 518; Prof. S. Saba; saba@fordham.edu, JMH 516

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

LAB LECTURES: JMH 112; tentative dates shown below (exact meeting times TBA).

GRADING: expt. 2 in-lab & post-lab Qs (20%); practical exam (25%); exam (40%); expt. 4 report (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, elemental analysis.

EXPERIMENTS

Expt. 1 isolation of trimyristin from nutmeg by solid-liquid extraction

Expt. 2 electrophilic aromatic nitration of an unknown monosubstituted benzene

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

Expt. 4 probing the reactivity of O,O-acetals vs. N,O-acetals with NaBH₄ and Grignard reagents

Expt. 5 qualitative organic analysis (practical exam - performed over one week)