

CH 254 (Organic Chemistry II) Laboratory Schedule – Spring 2008

| Week Of: | Experiment | Report Due? |
|----------|---|---|
| Jan. 28 | NO LABS | |
| Feb. 4 | Check-In; Orientation | |
| Feb. 11 | Oxidation of Benzoin to Benzil / The Effect of Molecular Structure on Conjugation (Computer Lab) I | |
| Feb. 18 | Oxidation of Benzoin to Benzil / The Effect of Molecular Structure on Conjugation (Computer Lab) II | |
| Feb. 25 | Nitration of Methyl Benzoate | |
| March 3 | Synthesis of Acetanilide | "Oxidation of Benzoin to Benzil" Report due |
| March 10 | Synthesis of Triphenylmethanol I (Grignard) | "Nitration of Methyl Benzoate" AND "The Effect of Molecular Structure on Conjugation" (Computer Lab) Reports due |
| March 17 | No Labs – Spring Break | |
| March 24 | Synthesis of Triphenylmethanol II | "Synthesis of Acetanilide" Report due |
| March 31 | Stereoselective Reduction of Camphor | |
| April 7 | 1,4-Diphenyl-1,3-butadiene from Cinnamaldehyde (Wittig) | "Synthesis of Triphenylmethanol" Report due |
| April 14 | Synthesis of Tetraphenylcyclopentadienone (Aldol) | "Stereoselective Reduction of Camphor" Report due |
| April 21 | Synthesis of Hexaphenylbenzene (Diels-Alder) | "1,4-Diphenyl-1,3-butadiene from Cinnamaldehyde" Report due |
| April 28 | Catch-Up | "Synthesis of Tetraphenylcyclopentadienone" Report due |
| May 5 | CHECK-OUT | "Synthesis of Hexaphenylbenzene" Report due |
| May 12 | NO LABS | |

Notes/Additional Items

1. Be sure to bring your laboratory manual to lab the week of February 4, as your check-in materials are in the manual.
2. PLEASE NOTE: Samples (triphenylmethanol, methyl m-nitrobenzoate, 1,4-diphenyl-1,3-butadiene, 1,2,3,4-tetraphenylnaphthalene, acetanilide and hexaphenylbenzene) **MUST** be turned in to the instructors with the laboratory report for a passing grade.
3. For the weeks of February 11 and 18 the labs will be split; half the students will work on the Molecular Modeling experiment; half will work on the Oxidation experiment. Be prepared for both experiments. There is no prelab for the modeling experiment.
4. Please note that two of the experiments (Modeling and Camphor) are not printed in your lab manual. You must print them from the course website in advance.
5. The final laboratory quiz will be given IN LECTURE, most likely the week of May 5.