

## Thursday Lab Schedule

Dates	Experiment	Reading	Questions for Report
1/19 &1/26	<i>Syllabus and check out / check in</i> <i>Experiment [A3a] The Aldol Condensation: Ttriphenylcyclopentadienone.</i> Methods: mp, IR, <sup>1</sup> H NMR Scale = 4x (400-mg scale). <b>**Product Card Due:</b> Thursday, Feb 9 <sup>th</sup> 1:10 pm in Tomsich 207**	Mayo: pp. 279 – 280, 435 – 438 Zubrick: Chs. 12, 33, 34	8-13, 14, 16, 17
2/2 & 2/9	<i>Experiment [A4ab] Diels-Alder Reaction: Hexaphenylbenzene.</i> Methods: pyrolysis, IR, TLC Scale = 2x <b>**Lab Report</b> –include Aldol Condn. Due: Thursday, Feb 23 <sup>rd</sup> 1:10 pm in Tomsich 207**	Mayo: pp. 421 – 424, 449 – 453 Zubrick: Chs. 18, 27	8-32, 33, 34
2/16 & 2/23	Oxidation of Cyclohexene Methods: Macroscale, IR <b>**Product Card Due:</b> Thursday, March 23 <sup>rd</sup> 1:10 pm in Tomsich 207**	<b>Handout</b> Zubrick Chs.	In Handout
3/2	<i>Experiment [B2] and [B3] Preparation of Adipoyl chloride and the polyamide - Nylon-6,6</i> Methods: Macroscale, IR <b>**Product Card Due:</b> Thursday, March 23 <sup>rd</sup> 1:10 pm in Tomsich 207**	Mayo: pp. 453 – 454, 457-461	8-42, 43, 44, 45, 46, 47
3/23 &3/30	<i>A Two-step Synthesis of a 4'-Substituted-2,4-Dinitrodiphenylamine</i> Methods: recrystallization, mp, IR, reflux, Macroscale (Kontes Kem Kit®) Scale = 800-mg scale (p. 448). <b>**Product Card Due:</b> Thursday, April 13 <sup>th</sup> at 1:10 pm in Tomsich 207**	<b>Handout</b> Zubrick: Chs. 12, 13, 18, 22, 33	In Handout
4/6 &4/13	<i>Esterification of D-Glucose.</i> Methods: reflux, recrystallization, mp, polarimetry, 300 MHz <sup>1</sup> H NMR Macroscale (Kontes Kem Kit®) <b>**Lab Report Due:</b> Thursday, April 27 <sup>th</sup> 1:10 pm in Tomsich 207**	<b>Handout</b> Zubrick: Chs. 12, 13, 18, 22, 34	In Handout
4/20 &4/27	Project TBA and Catch up time <b>** Product Card Due:</b> Thursday, May 4 <sup>th</sup> 1:10 pm in Tomsich 207**	<b>Handout</b>	Handout
5/4	<b>Final exam (1:10 – 3:40 pm) and lab Check Out (3:40 – 4:00pm)</b>		