

**WINTER/SPRING SEMESTER
Laboratory Assignments
for Chemistry 228**

Week No.	Experiment	MTOL (pgs)	Solomons 9th ed (pgs)	<u>Pre-Lab Due</u>	<u>Paper Due</u>	<u>Lab Writeup Due</u>
1	Intro/Check-in	Chapts 1-3	---	---	---	---
2	NaBH ₄ reduction of 9-Fluorenone	52-55, 90-110 110-116, 125-128	518-520	NaBH ₄ reduction	Safety Contract (page 9)	---
3	Oxidation	110-116	523-525	Oxidation	---	NaBH ₄ reduction
4	Grignard	25-27	527-537	Grignard	---	Oxidation
5	continue	110-116 , 125-128		---	---	---
6	Aldol	110-116	742-749	Aldol	Paper #1	Grignard
7	IR/NMR review	146-178, 179-217	76-84, 363-390	---	---	Aldol
8	Mid-Term Exam*	CLC assignment		---	---	---
9	<i>St. Pat's</i> (Th & Fri)	no lab	---	---	Paper #2	---
10	Checkin for pt. 2		---	---	---	IR/NMR
11	<i>Spring Break</i>	no lab	---	---	---	---
12	Synthesis Project	---	---	prelab pt. 1	---	CLC assignment
13	Synthesis Project	---	---	prelab pt. 2	---	project pt. 1
14	Synthesis Project	---	---	prelab pt. 3	---	project pt. 2
15	Synthesis Project	---	---	project IR/NMR's	---	project pt. 3
16	Synthesis Project	---	---	---	Synthesis Draft	IR/NMR analysis
17	Final Exam*	Lab Check-out	---	---	Synthesis Project	Synthesis Project

Failure to check out will result in a \$25.00 charge. You must check out even if you drop the course.
Unpaid breakage after check out will result in an additional \$5.00 billing fee.

Common Mid-Term Exam, Friday, March 7, 7:00-9:00 pm, 126 Schrenk Hall
Common Final Exam, Friday, May 2, 7:00-9:00 pm, 126 Schrenk Hall