

## 10. Course Outline

### Organic Chemistry II Lab (CHEM 212L)

Week	Topic(s)
1	Safety ( <a href="#">study guide</a> is online), <a href="#">notebook</a> , and equipment setup.
2	Take safety exam; grade of 80 or higher is required to do lab. Do set up equipment, safe shut down, and break down for experiment 16.
3	Read Experiment 16. Do procedure 2 (pp316-317). Measure infrared (IR) spectrum, refractive index (RI), boiling point (BP) and yield of 1-bromobutane. Notebook due.
4	Read Experiment 17. Do procedure on pp325-326, microscale. Report due.
5	Read Experiment 19. Do procedure 2 on pp339-340 macroscale. Measure IR of cyclohexanol. Measure %yield and IR of cyclohexene. Notebook due.
6	Read Experiment 22. Do procedure 4 on pp366 macroscale. Measure %yield, BP, RI, and IR of cyclohexanone. Report due.
7	Read Experiment 22. Do procedure 6 on pp367-368, short term, macroscale. Measure melting point, IR, and %yield of adipic acid. Notebook due.
8	Read Experiment 26. Do microscale procedure on pp395-396. Measure IR of 2-methylcyclohexanone. Measure %yield, NMR, and IR of 2-methylcyclohexanol. Report due.
9	Read Experiment 28. Do procedure 1 on pp405-406 microscale. Measure %yield, melting point, and IR of methyl-3-nitrobenzoate. Notebook due.
10	Read Experiment 29. Do procedure 4 on p415-416 microscale. Measure IR, melting point, and TLC of 1,4-bis(1,1-dimethylethyl)-2,5-dimethoxybenzene. Report due.
11	Read Experiment 33. Do procedure 1 on pp449-450 microscale. Measure IR of triphenylmethanol. Measure %yield, melting point, and IR of product. Notebook due.
12	Read Experiment 37. Do microscale procedure on pp 488-489. Measure %yield, melting point, and IR of dibenzalacetone. Report due.
13	Read Experiment 41 - pp533-534, microscale. Measure %yield, IR, and melting point of product. Notebook due.
14	Read Experiment 40 - Do macroscale procedure on pp526-527. Report due.
15	Technical report due