	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1 May 16-20	Exp. 1		Exp 2+3		
Week 2 May 23-27	Exp 4		Exp. 5		
Week 3 May 30-June 3	**Memorial Day. YSU Closed**		Exp. 6		
Week 4 June 6-10	Exp. 7		Exp 8		
Week 5 June 13-17	Exp. 9		Exp. 10		
Week 6 June 20-24	**Juneteenth YSU Closed**		Exp. 11		Exp. 12
Week 7 June 27-July 1	Expt. 13		Exp. 14		

List of Experiments:

Experiment	Exercise	Details
1	**Finding Chemical Data and Molecular Modeling**	**Data Gathering:** Use of online Molview or ChemSpider for finding reliable chemical data and compound properties from databases ***Blackboard upload as PDF (10 pts)***
2	**Lab Room Orientation and Syllabus Overview**	**Orientation:** learn about the Rm 5037 Organic lab environment; assignment of equipment lockers ***Safety Quiz (pass/fail)***
3	**Measurement** ***Prelab Reading***	**Lab Techniques**: Safe transfer of organic liquids and solids, use of balance, glassware, pipettes, pipette pumps, vacuum filtration ***Notebook upload as PDF (10 pts)***
4	**Solubility & Miscibility** ***Prelab Reading***	**Lab Techniques**: Water bath for heating/evaporating of liquids, gravity filtration for removing impurities from organic solutions ***Notebook upload as PDF (10 pts)***
5	**Recrystallization** ***Prelab Reading***	**Lab Techniques**: Choosing an appropriate organic solvent for crystallizing, purifying solids from hot solvent, filtration & m.pt. ***Notebook upload as PDF (10 pts)***
6	**Stereochemistry** ***Prelab Reading***	**Structure**: Drawing and comparing stereoisomers in ChemDraw; conformational analysis of isomeric molecules using Chem3D ***Blackboard upload as PDF (10 pts)***

7	**Extraction & TLC** ***Prelab Reading***	**Lab Techniques**: Use of separatory funnel, washing and drying of organic solutions, evaporation, Thin Layer Chromatography ***Notebook upload (10 pts)***
8	**Distillation** ***Prelab Reading***	**Lab Techniques**: Separation and purification of organic liquids by their boiling point; identification of unknowns in a mixture ***Notebook upload (10 pts)***
9	**Substitution Week 1** ***Prelab Reading***	**Synthesis**: Preparation of an organic halide from an alcohol via a substitution pathway; reaction is run twice to improve yield ***Report due after following lab***
10	**Substitution Week 2** ***No Prelab***	**Synthesis**: Use of distillation to purify liquid substitution product from previous week; repeated on both samples to improve yield ***Full Report upload (25 pts)***
11	**Elimination Week 1** ***Prelab Reading***	**Synthesis**: Conversion of alcohol into alkene via acid-catalyzed elimination; application of Le Chatelier's principle in synthesis ***Report due after following lab***
12	**Elimination Week 2** ***No Prelab***	**Synthesis**: Use of distillation to purify liquid substitution product from previous week; tests on product sample to prove an alkene ***Full Report upload (25 pts)***
13	**Addition** ***Prelab Reading***	**Synthesis**: Preparation of a halogenated organic product through electrophilic addition of bromine to an electron-deficient alkene ***Notebook upload (10 pts)***
14	**Lab Final** ***Blackboard (10 pts)***	**Overall**: You will be tested on lab basics; what did you do, how did you do it, and why?