

**Agenda 5 (revised), 10/15 to 10/24/19**

**Week 9**

Tue (10/15)      Lecture              Chapter 17 – Aromatic Compounds  
                         Concepts              Definition of aromatic character, naming of aromatic compounds, structure, and stability of benzene  
  
                         Reading              Klein: Sections 17.1-17.4  
                         Homework          Klein: 17.24, 17.25, 17.30, 17.32, 17.34, 17.35, 17.39  
                         Lab                      Molecular Modeling of the Diels-Alder Reaction using Spartan. (handout)

Thu (10/17)      Lecture              Chapter 17 – Aromatic Compounds  
                         Reading              Klein: Sections 17.5-17.8  
   [18]Annulene *Organic Syntheses, Coll. Vol. 6, p. 68 (1988)*  
                         Concepts              Benzylic carbon chemistry, reduction of aromatics, Spectroscopy  
                         Homework          Klein: 17.43, 17.48, 17.49, 17.52, 17.53, 17.55, 17.61  
   ACS-style problems: 17.67-17.69 (don't turn these in, just check them)  
   *Carbon NMR Assignments for chloronitrobenzenes* (handout)

**Due**                      ***Chapter 16 homework, Ethers and Derivatives Worksheet, Diels-Alder Worksheet***

Lab                      **Exam 2** (Chapters 12, 13, and 16) in A277, 9:00-11:50 am

**Week 10**

Tue (10/22)                      Professional Development Day (**no lecture or lab**)

Thu (10/24)      Lecture              Chapter 18 – Aromatic Substitution Reactions  
                         Reading              Klein: Sections 18.1-18.4  
                         Concepts              Electrophilic Aromatic Substitution, halogenation, sulfonation, nitration  
                         Homework          *Aromatic Substitution Worksheet* (handout)  
   *Aromatic Synthesis Worksheet* (handout)

**Due**                      ***Final draft of Dehydration lab***

Lab                      Synthesis of Methyl Salicylate (Oil of Wintergreen) (*Pavia* 43)