

CHEM 233: HOMEWORK SHEET
EXAM III (Spring 2011-Dr. Babb)

- Chapter 8:**
- A. Alkyl Halides: Elimination Reactions (pg. 279-300)
Homework: 8.1-8.23, 8.26-8.30, 8.32, 8.34, 8.36, 8.37, 8.39-8.43, 8.46, 8.47, 8.50, 8.51
 - B. Alkyl Halides: Substitution vs. Elimination (pg. 300-305)
Homework: 8.24, 8.25, 8.53, 8.54, 8.60
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- Chapter 9:**
- A. Alcohols, Ethers, & Epoxides: Classific., Nomenclature, & Physical Prop. (pg. 312-321)
Homework: 9.1-9.9, 9.40-9.44
 - B. Synthesis and General Reaction Features (pg. 321-324)
Homework: 9.12-9.14
 - C. Reactions of Alcohols (pg. 324-341)
Homework: 9.15-9.32, 9.47, 9.49, 9.50, 9.52, 9.54, 9.55, 9.57-9.59, 9.61, 9.63, 9.77
 - D. Reactions of Ethers and Epoxides (pg. 341-349)
Homework: 9.33-9.38, 9.65-9.68, 9.71-9.73, 9.75
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- Chapter 10:**
- A. Alkenes: Nomenclature, Physical Prop., Degrees of Unsat. (pg. 358-369)
Homework: 10.1-10.10, 10.36, 10.39, 10.40, 10.44
 - B. Preparation of Alkenes (pg. 369-370)
Homework: 10.13
 - C. Reactions of Alkenes (pg. 370-392)
Homework: 10.14-10.16, 10.18-10.35, 10.52-10.60, 10.65, 10.66, 10.72
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NOTE: We will cover Chapter 11: Alkynes (and Alkyne Reactions) at a later date.

- Chapter 13:**
- A. Mass Spectrometry (pg. 463-474)
Homework: 13.1-13.9, 13.22, 13.25, 13.26-13.28, 13.30, 13.33
 - B. Infrared Spectroscopy (pg. 474-487)
Homework: 13.10-13.20, 13.37-13.39, 13.41, 13.42, 13.44
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NOTE: Exam III is Thursday, April 14 (7-8:30 PM) and will cover most of the topics listed on this sheet. You are responsible for material covered in lecture, reading material in text and material covered in homework problems and problem sets. To the exam bring a #2 pencil, pen, and a photo ID.