

# Recommended Problems

## ChemV12B, General Organic Chemistry II

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**Instructions:** While no homework will be collected for grading or credit, it is highly recommended that you practice these questions AND as many more as you can on your own to reinforce topics discussed in lecture. Questions in the textbook can be found both in and at the end of every chapter, with the former having answers included at the back of the book. Quiz and exam questions will be very similar to these and the examples shown in class.

### **Chapter 10: Reactions of Alcohols, Ethers, Epoxides, Amines, & Sulfur-Containing Compounds**

3, 5, 6, 9, 11, 12, 13, 16, 17, 21, 22, 24, 29, 44, 45, 49, 55, 56, 61, 63, 73, 77, 96

### **Chapter 11: Organometallic Compounds**

7, 10, 13, 17, 19, 20, 23, 27, 29, 31, 33, 36, 37, 38, 42

### **Chapter 12: Radicals**

4, 11, 14, 21, 23, 26, 28, 29, 30, 31, 39, 40, 43, 46

### **Chapter 14: NMR Spectroscopy**

4, 5, 12, 13, 14, 18, 19, 20, 26, 40, 44, 53, 54, 56, 60, 61, 62, 63, 64, 65, 67, 71, 74, 77, 79

### **Chapter 18: Reactions of Benzene and Substituted Benzenes**

1, 4, 5, 7, 9, 10, 12, 14, 17, 20, 24, 31, 37, 43, 44, 49, 50, 58, 66, 71, 85, 91

### **Chapter 15: Reactions of Carboxylic Acids and Carboxylic Acid Derivatives**

2, 10, 13, 17, 23, 24, 26, 36, 38, 40, 46, 48, 49, 51, 60, 64, 68, 85

### **Chapter 16: Reactions of Aldehydes, Ketones, and More Carboxylic Acid Derivatives**

1, 3, 12, 13, 24, 28, 32, 39, 46, 49, 50, 54, 55, 57, 58, 59, 61, 62, 74, 79, 84, 89, 93

### **Chapter 17: Reactions at the $\alpha$ -Carbon**

5, 7, 16, 21, 25, 28, 30, 35, 38, 40, 43, 50, 59, 63, 66, 72, 84

### **Chapter 20 & 21: Carbohydrates & Amino Acids, Peptides, and Proteins**

Refer to PowerPoint slides