

## Chemistry 314-001 Organic Chemistry II Required Solomons Problems

This list can be found at <http://mason.gmu.edu/~rhoneych/314probs.pdf>. Do these first, and more later if you have time. Try them without looking at the answers, at least for a few minutes. These are “PRACTICE PROBLEMS” and “PROBLEMS.” They are not “SOLVED PROBLEMS.”

Carbonyl reduction; alcohol oxidation; organolithium and organomagnesium compounds  
12.9, 12.10, 12.11, 12.15, 12.16

Conjugated unsaturated compounds  
13.14, 13.15, 13.18, 13.20, 13.22, 13.23, 13.27, 13.43, 13.44

Aromatic compounds  
14.4, 14.5, 14.16, 14.17, 14.18, 14.19, 14.23, 14.26

Reactions of aromatic compounds  
15.5, 15.20, 15.21, 15.23, 15.24, 15.26, 15.33, 15.35

Aldehydes and ketones I: nucleophilic addition to C=O  
16.10, 16.22, 16.23 a-l & o, 16.25, 16.33, 16.39, 16.42

Aldehydes and ketones II: enolate reactions  
18.16, 19.35, 19.37, 19.38, 19.43

Carboxylic acids and their derivatives  
17.17, 17.18, 17.21, 17.22, 17.34, 17.40

$\beta$ -Dicarbonyl compounds  
18.15, 18.17, 18.21, 18.22, 19.23, 19.41, 19.50

Amines  
20.19, 20.20, 20.21, 20.23, 20.24, 20.31

Phenols and aryl halides  
15.41, 15.42, practice problem D.10(b) page D-11 in Special Topic D in WileyPLUS

Polymers  
10.16, practice problem E.3(a) page E-5 in Special Topic E in WileyPLUS