

**CHE 173**

**Winter, 2005**

**Specific Objectives for Quiz 6**

1. Understand the general mechanism for electrophilic aromatic substitution reactions.
2. Be able to predict the product(s) and show the mechanisms for the following types of electrophilic aromatic substitution reactions with substituted benzenes: nitration, sulfonation, halogenation, Friedel-Crafts alkylation, Friedel-Crafts acylation.
3. Understand how substituents affect the rate and regioselectivity of EAS reactions.
4. Be able to apply the above reactions (as well as other reactions you've already learned) in multi-step synthesis problems.