

## Chemistry 2301

### In-Class Exercise: Proton-Mediated S<sub>N</sub>1 Mechanisms

Each of the S<sub>N</sub>1 reactions below involves both substitution and proton transfer. “Push electrons,” using curved arrows, to illustrate the reaction mechanism. Make sure to draw each step explicitly; don’t cheat by, say, combining acid-base exchange and S<sub>N</sub>1 steps into one.

