Chemistry 233 Synthetic Strategies I

Right now our synthetic toolbox is fairly limited. We will expand it as the semester progresses. You can pick a starting point (fuctional group) on the diagram below and trace a pathway to your desired target functional groups.



Conditions A	Conditions B	Conditions C
H-X (1 equiv) X ₂ (1 equiv)	H-X X ₂ X ₂ , H ₂ O or R-OH H ₂ SO ₄ , H ₂ O 1. BH ₃ •THF, 2. NaOH, H ₂ O ₂	H ₂ SO ₄ , H ₂ O HgSO ₄ , H ₂ SO ₄ , H ₂ O (terminal alkynes) 1. BH ₃ •THF, 2. NaOH, H ₂ O ₂