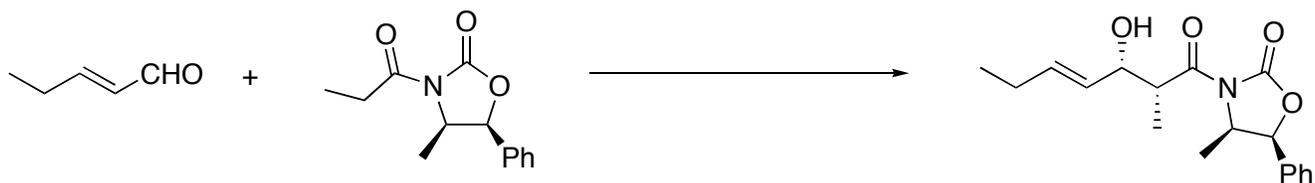


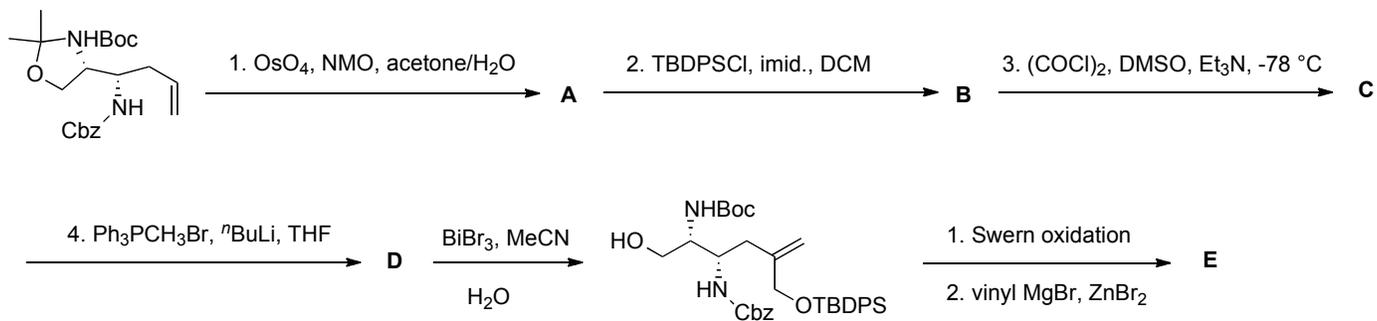
Chemistry 1310/2370 - Synthetic Organic Chemistry

Problem Set 3: Due Date 11/15/10**Name:**

A. Suggest reagents for the following transformation. Explain the stereoselectivity of the reaction (i.e. draw an appropriate transition state model). Suggest how you would obtain the other *syn*-aldol product and explain the difference in the stereoselectivity.



B. Write structures for **A** through **E**:



C. Provide three different examples (with appropriate reagents) to synthesize aldols.

D. Provide a mechanism for the following ester synthesis.

