Name: _____

Locker Number: _____

Special Experiment

PREPARATION OF AN a,ß-UNSATURATED KETONE *via* MICHAEL AND ALDOL CONDENSATION REACTIONS

Pre-Lab Exercise

1. Write *balanced* equations for the reaction of ethyl acetoacetate and *trans*-chalcone in the presence of KOH. Be sure to include the dehydration step.

2. Determine the **theoretical yield** of 6-ethoxycarbonyl-3,5-diphenyl-2-cyclohexenone. Show clearly which reactant is the limiting reagent for this process.