

## Honors Research Project Proposal





Please Print

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Title of Proposed Project: <b>Greener Synthesis of Chlorophosphazenes</b>	
Major: <b>Chemistry</b>	Graduation (semester/year): <b>Fall 2020</b>

Please include a brief (maximum 200 words) summary of your proposed project

This project will attempt to synthesize chlorophosphazene molecules in the absence of solvents by using mechanochemical techniques in order to create a more environmentally friendly synthesis route. In this pursuit, various parameters will be changed including the milling ball to reagent ratios, the molar ratios of the reactants, and the addition of different catalysts. The products of each reaction will be characterized in order to determine success. This work builds upon existing efforts to utilize mechanochemical techniques in main group chemistry. The output of this project will be a report in ACS style and a poster to be presented for an ACS undergraduate poster session at a national ACS meeting.

**Approval:**

Honors Course No.: <b>3150 497</b>	No. of Project Credits: <b>2</b>
<b>Honors Project Sponsor</b> Signature/Date  10/17/19 Print name <b>Dr. Claire Tessier</b> Email: <b>tessier@uakron.edu</b>	
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Your approved cover sheet and proposal must be [submitted to the Williams Honors College through IdeaExchange](#)