

CHEM3820 Advanced Organic Chemistry Laboratory

Course Description:

This laboratory course comprised of experiments mainly focus on some advanced practices in organic synthesis, including advanced organic reaction techniques, multi-step organic synthesis and catalytic organic reactions. The course aims to strengthen students' experience on carrying out more advanced and complicated practical tasks in organic chemistry, and understanding the essential principles in planning a multi-step organic synthesis route.

Co-requisite:

CHEM3230

List of Experiments (for reference only):

1. Catalytic Suzuki-Miyaura Cross-Coupling Reaction in Aqueous Medium
2. Synthesis of Heterocyclic Compound: 3,5-Bis(ethoxycarbonyl)-2,4-dimethylpyrrole
3. Mini Project 1: Multi-Step Synthesis of 4-Bromochlorobenzene (2 weeks)
4. Mini Project 2: Synthesis of Jacobsen's Catalyst and the Use of It in Enantioselective Epoxidations (4 weeks)