

CHE 590 – Thesis Research

Prerequisites

Completion of CHE 588, CHE 589

Course Description

- A. **Course Objectives:** Upon completion of this course a student will be able to:
1. Carry out appropriate chemical reactions, isolation procedures, and compositional analysis required for the completion of the proposed research.
 2. Operate instrumentation required to gather spectroscopic data and other measurements pertinent to the proposed research.
 3. Assess the results of data from chemical reactions, instrumental analysis, and other methods of characterization to determine an appropriate course of action to continue progress for the research project.
- B. **Course Outline:** This course will follow an independent study format involving regular meetings and laboratory exercises with the thesis advisor to ensure timely completion.
- C. **Modes of Instruction:**
The modes of instruction will include faculty guided laboratory research and training for technique and instrumental analysis.
- D. **Evaluation:**
Evaluation of the research associated with the proposal is accomplished through regular meetings with the faculty advisor to ensure that all required chemical reactions, operating procedures for instrumentation, data collection, and data interpretation is being completed.
- E. **Bibliography:**
Relevant research articles and textbooks.