

**CHEM 762 – Tues/Thurs 1:45pm-3:15pm**

**Introduction to X-ray Crystallography course, Graduate level course**

**Instructor: Dr. Michael Gau, 14-15 classes**

Class Structure for Spring 2025

- Course is aimed to introduce students to small molecule X-ray crystallography.
- Focus will be on theory and background of X-ray crystallography.
- Lecture style course.

Tentative Schedule:

1. Introduction
2. Crystal Lattices and Systems
3. Diffraction, Laue/Bragg Equation and X-rays
4. Reciprocal Lattice and Ewald Sphere
5. Structure Factors
6. Symmetry and Space Groups
7. Structure Solution, Models and Refinement

Outline of Assessments

- Midterm and Final exam will be worth 100 points