

CHE 640 - CHEMICAL CRYSTALLOGRAPHY

Fall 2017

This course is an introduction to X-ray crystallography with an emphasis on applications of interest to synthetic chemists.

The course is split roughly 50:50 between lectures and laboratory sessions. The fundamentals of small-molecule X-ray crystallography, including symmetry and diffraction physics are covered in the lectures. The modern terminology and methods of crystallography are given in their correct historical context. The other half of the course is based in the X-ray laboratory, where hands-on use of state-of-the-art equipment provides familiarity with crystal handling, X-ray equipment, and computer programs.

Class Meets: MWF 9:00 – 9:50, but we might try to arrange additional times for laboratory work.

Room: CP-111 and CP-146 (X-Ray Laboratory)

Credit hours: 3

Instructor: Dr. Sean Parkin
Department of Chemistry
CP-313
323-8984
s.parkin@uky.edu