

## Chem 411: Advanced Instrumental Analysis

*Course description:* A discussion of electronic data acquisition and manipulation as used in modern chemical instrumentation.

### Course Goals

Develop an understanding of the role and function of the components of various chemistry equipment and instrumentation

Develop the ability to recognize the commonalities between analogous components of different types of instrumentation and equipment

Develop the ability to evaluate the validity of the output of data processing

Develop an understanding of the interfacing between hardware and data acquisition software.

Apply the concepts developed in the course to a practical projects

Develop an appreciation of advanced instrumental techniques

### Program Goals

Develop the ability to apply error analysis and determine significant figures.

Develop competence in problem solving.