

CHEM 2043 : Chemical Instrumentation

This course provides a survey of the spectroscopic, chromatographic, and electroanalytical techniques commonly used in instrumental analysis. There is a strong emphasis on the underlying theory, instrumentation and components, use of standard operating procedures, experimental design, collection and interpretation of results, and troubleshooting. Laboratory techniques include UV-visible spectroscopy, infrared spectroscopy, nuclear magnetic resonance spectroscopy, gas chromatography, high-performance liquid chromatography, and mass spectrometry. This course is intended for science and chemical technology majors. Lecture/laboratory.

Prerequisites: CHEM 2033. Lab fee.

Credits 0.0-5

Semester Offered

Spring