Instrumental Analysis (CHE 431)

Potential Instructors*	Dr. Nadja Cech; nbcech@uncg.edu Dr. Norman Chiu; nhchiu@uncg.edu Dr. Qibin Zhang; q_zhang2@uncg.edu
Prerequisites	CHE 331, CHE 333, CHE 205 or CHE 352 (either may be taken concurrently), PHY 212 or PHY 292
Corequisites	CHEM (B.S.) and CHEM with concentration in BCHEM (B.S.): CHE 433 lab Other majors: None
Sample Course Materials	**Textbook:** *Quantitative Chemical Analysis* by Daniel C. Harris
For Whom Planned	CHEM and BCHEM majors
Topical Outline§	▪ The Differentiating Characteristic ▪ Calibration Curves ▪ Experimental Design and Calibration Methods ▪ Fundamentals of Spectrophotometry ▪ Spectrophotometers ▪ Atomic Spectroscopy ▪ Activity ▪ Electrodes and Potentiometry ▪ Electroanalytical Techniques ▪ Introduction to Analytical Separations ▪ Gas Chromatography ▪ Liquid Chromatography ▪ Chromatographic Methods/CE ▪ Mass Spectrometry
Notes	

* To request a comprehensive syllabus, you may contact the instructor for your section directly.

§ Subject to change