CHEMISTRY LAB (CRL)

Courses

CRL 103. Experimental General Chemistry I (LAB). 1 Credit.
Basic laboratory studies in college chemistry utilizing the quantitative approach. Semimicro qualitative analysis and inorganic preparations.
Pre / Co requisites: CRL 103 requires prerequisite or co-requisite CHE 103.
Typically offered in Fall & Spring.

CRL 104. Experimental General Chemistry II (LAB). 1 Credit.
Basic laboratory studies in college chemistry utilizing the quantitative approach. Semimicro qualitative analysis and inorganic preparations.
Pre / Co requisites: CRL 104 requires a prerequisite of CRL 103 and a prerequisite/corequisite of CHE 104.
Typically offered in Fall & Spring.

CRL 107. General Chemistry Lab for Allied Health Services. 1 Credit.
A one-semester laboratory course to complement CHE 107. Basic laboratory techniques, both qualitative and quantitative, will be used to illustrate principles from the lecture. CHE 107 must be taken concurrently or before CRL 107.
Pre / Co requisites: CRL 107 requires co-requisite of CHE 107.
Typically offered in Fall & Spring.

CRL 200. Introduction to Organic and Biological Chemistry Laboratory. 1 Credit.
A laboratory course to allow students in the environmental health program to gain hands-on experience with the topics and techniques of organic and biochemistry as they apply to the environmental health major.
Pre / Co requisites: CRL 200 requires a prerequisite or co-requisite of CHE 200.
Typically offered in Spring.

CRL 231. Experimental Organic Chemistry I Lab. 2 Credits.
Basic laboratory skills in organic chemistry including classical as well as instrumental techniques. Organic synthesis and modern spectrophotometric methods of identification.
Pre / Co requisites: CRL 231 requires prerequisite of CRL 104 or CRL 106.
Typically offered in Fall & Spring.

CRL 232. Experimental Organic Chemistry II Lab. 2 Credits.
Basic laboratory skills in organic chemistry including classical as well as instrumental techniques. Organic synthesis and modern spectrophotometric methods of identification.
Pre / Co requisites: CRL 232 requires co-requisite of CHE 232.
Typically offered in Fall & Spring.

CRL 321. Analytical Chemistry I Lab. 2 Credits.
Practical experience in modern techniques of chemical analysis with emphasis on volumetric and gravimetric methods.
Pre / Co requisites: CRL 321 requires co-requisite of CHE 321.
Typically offered in Fall & Spring.

CRL 341. Experimental Physical Chemistry Lab. 2 Credits.
Laboratory course in physical chemistry including computer applications, thermodynamics, chemical kinetics, structure, and spectroscopy.
Pre / Co requisites: CRL 341 requires prerequisites of CHE 103 and CHE 104 and MAT 161 and MAT 162 and PHY 170 and co-requisites of CHE 341 and PHY 180.
Typically offered in Fall.

CRL 411. Inorganic Syntheses. 2 Credits.
A four-hour laboratory course in the synthesis and characterization of inorganic compounds of the main group and the transition elements.
Pre / Co requisites: CRL 411 requires prerequisite of CHE 409 or CHE 411 and co-requisite of CHE 341.
Typically offered in Spring.

CRL 424. Analytical Chemistry II Lab. 2 Credits.
Practical experience in the choice and application of instrumental methods of analysis to chemical systems.
Pre / Co requisites: CRL 424 requires prerequisite or co-requisite of CHE 424.
Typically offered in Spring.

CRL 436. Polymer Chemistry Lab. 2 Credits.
Synthesis of polymers; molecular, physical, and thermal characterization of polymers. Instrumental methods include X-rays, IR, electron microscopy, and thermal analysis.
Pre / Co requisites: CRL 436 requires co-requisite of CHE 436.

CRL 476. Experimental Biochemistry I Lab. 2 Credits.
Laboratory exercises in the fundamentals of biochemistry.
Pre / Co requisites: CRL 476 requires co-requisite of CHE 476.
Typically offered in Fall & Spring.

CRL 477. Experimental Biochemistry II Lab. 2 Credits.
A second-semester laboratory course in biochemistry that stresses the use of advanced analytical instruments to characterize biologically important molecules and to elucidate their mechanism of action.
Pre / Co requisites: CRL 477 requires prerequisites of CHE 476 and CRL 476.
Typically offered in Spring.