

# CHEMISTRY, MINOR

The Chemistry minor provides comprehensive training in general chemistry, organic chemistry, and one additional chemistry discipline of the student's choice. Chemistry is a useful minor for students majoring in Biology, Allied Health, Psychology, Sustainability, Business, Criminal Justice, or Elementary or Secondary Education, and/or for students anticipating post-baccalaureate study in medicine, pharmacy, dentistry or other health professions. Student may earn a minor in Chemistry by completing 25 to 26 credit hours.

## Requirements

**Residency requirement.** At least 8 credit hours of Chemistry, including at least one laboratory course, must be completed at Roosevelt University.

### Chemistry Core

CHEM 201	GENERAL CHEMISTRY I (3 credit hour lecture, 2 credit hour lab)	5
CHEM 202	GENERAL CHEMISTRY II (3 credit hour lecture, 2 credit hour lab)	5
CHEM 211	ORGANIC CHEMISTRY I (3 credit hour lecture, 2 credit hour lab)	5
CHEM 212	ORGANIC CHEMISTRY II (3 credit hour lecture, 2 credit hour lab)	5

### Chemistry Laboratory Elective

Select one of the following:<sup>1</sup> 5-6

CHEM 237	QUANTITATIVE ENVIRONMENTAL ANALYSIS (3 credit hour lecture, 2 credit hour lab)
CHEM 313	ADVANCED ORGANIC CHEMISTRY LAB (3 credit hour lecture, 2 credit hour lab)
CHEM 321	PHYSICAL CHEMISTRY: THERMODYNAMICS (3 credit hour lecture, 2 credit hour lab)
CHEM 322	PHYSICAL CHEMISTRY: QUANTUM MECHANICS (3 credit hour lecture, 2 credit hour lab)
CHEM 323	ATOMIC AND MOLECULAR SPECTROSCOPY (3 credit hour lecture, 2 credit hour lab)
CHEM 347	ADVANCED INORGANIC CHEMISTRY LAB (3 credit hour lecture, 2 credit hour lab)

Total Credit Hours 25-26

<sup>1</sup>. With permission of the chemistry program chair, the chemistry laboratory elective can be substituted for 3 credit hours of a CHEM 3xx lecture elective and 2-3 credit hours of approved CHEM 392 Chemistry Research. To apply to the minor, chemistry research should be a substantive laboratory or computational project, performed under the direction of a faculty sponsor, resulting in a report, paper, poster or presentation, and completed with a minimum acceptable grade of C. Each credit hour of CHEM 392 requires the equivalent of 3 hours of active research per week over a 15 week semester.