

MINOR IN CHEMISTRY

Why study chemistry?

Because understanding the atomic and molecular nature of matter informs us about ourselves and our universe, and creating and finding applications for new and modified forms of matter helps to conserve and enhance our world.

Requirements for the Minor

The minor allows students outside the department to obtain a strong, distributed background in the discipline. It is particularly useful for students anticipating careers in medicine, health professions, biological sciences, environmental sciences, chemical engineering, business, law, secondary education, or any career in which a basic understanding of the molecular sciences is helpful. A total of 23 credit hours is required, including 13 hours of upper-division work and at least 2 upper-division laboratories. Students should see a chemistry department advisor early in the junior year.

Chemistry Minor Course Requirements (29-32)

Students selecting this minor must complete the following:

Calculus I. Satisfied by one of the following: 3-4

MATH 115 Calculus I
or MATH 12[†]Calculus I
or MATH 14[†]Calculus I, Honors

Calculus II. Satisfied by one of the following: 3-4

MATH 116 Calculus II
or MATH 12[†]Calculus II
or MATH 14[†]Calculus II, Honors

General or College Physics I. Satisfied by one of the following: 4-5

PHSX 114 College Physics I
PHSX 211 General Physics I
& PHSX 216 and General Physics I Laboratory
PHSX 213 General Physics I Honors

General or College Physics II. Satisfied by one of the following: 4

PHSX 115 College Physics II
PHSX 212 General Physics II
& PHSX 236 and General Physics II Laboratory
PHSX 214 General Physics II Honors

Chemistry for the Chemical Sciences I. Satisfied by one of the following: 5

CHEM 170 Chemistry for the Chemical Sciences I
CHEM 130 General Chemistry I
CHEM 190 Foundations of Chemistry I, Honors

Chemistry for the Chemical Sciences II. Satisfied by one of the following: 5

CHEM 175 Chemistry for the Chemical Sciences II
CHEM 135 General Chemistry II
CHEM 195 Foundations of Chemistry II, Honors

Organic Chemistry I. Satisfied by one of the following: 3

CHEM 310 Fundamentals of Organic Chemistry
CHEM 330 Organic Chemistry I
CHEM 380 Organic Chemistry I, Honors

Organic Chemistry Lab I. Satisfied by: 2

CHEM 331 Organic Chemistry I Laboratory

Chemistry Required Elective Group I (5) 5

Students selecting this minor must complete one of the following:

Analytical Chemistry Lecture and Laboratory. Satisfied by:

CHEM 620 Analytical Chemistry
& CHEM 621 and Analytical Chemistry Laboratory

Biological Physical Chemistry Lecture and Laboratory. Satisfied by:

CHEM 510 Biological Physical Chemistry
& CHEM 511 and

Physical Chemistry I Lecture and Laboratory. Satisfied by:

CHEM 530 Physical Chemistry I
& CHEM 531 and Physical Chemistry Laboratory

Chemistry Required Elective Group II (3) 3

Students selecting this minor must complete one of the following:

Biological Physical Chemistry. Satisfied by:

CHEM 510 Biological Physical Chemistry

Physical Chemistry I. Satisfied by:

CHEM 530 Physical Chemistry I

Systematic Inorganic Chemistry. Satisfied by:

CHEM 660 Systematic Inorganic Chemistry

Minor Hours & Minor GPA

While completing all required courses, minors must also meet each of the following hour and GPA minimum standards:

Minor Hours

Satisfied by 23 hours of minor courses.

Minor Hours in Residence

Satisfied by a minimum of 9 hours of KU resident credit in the minor.

Minor Junior/Senior Hours

Satisfied by a minimum of 13 hours from junior/senior courses (300+) in the minor.

Minor Junior/Senior Graduation GPA

Satisfied by a minimum of a 2.0 KU GPA in all departmental courses (300+) in the minor. GPA calculations include all junior/senior courses in the field of study including F's and repeated courses. See the Semester/Cumulative GPA Calculator (<http://clas.ku.edu/undergrad/tools/gpa>).