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 121  Calculus I
- or MATH 141  Calculus I, Honors

Calculus II. Satisfied by one of the following: 3-4
- MATH 116  Calculus II
- or MATH 122  Calculus II
- or MATH 142  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  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  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

Chemistry Required Elective Group I (5)
Students selecting this minor must complete one of the following:

Analytical Chemistry Lecture and Laboratory. Satisfied by:
- CHEM 620  Analytical Chemistry
- & CHEM 621  Analytical Chemistry Laboratory

Biological Physical Chemistry Lecture and Laboratory. Satisfied by:
- CHEM 510  Biological Physical Chemistry
- & CHEM 511  Biological Physical Chemistry Laboratory

Chemistry Required Elective Group II (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
- & CHEM 531  Physical Chemistry Laboratory

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).