CHEMISTRY - MINOR

College of Arts and Sciences
Department of Chemistry and Biochemistry
www.kent.edu/chemistry

About This Program
The Chemistry minor provides a solid background in chemistry and biochemistry, which can be individually tailored to complement major studies in other sciences, education and business.

Contact Information
• Scott Bunge | sbunge@kent.edu | 330-672-9445
• Speak with an Advisor

Program Delivery
• Delivery:
  • In person
• Location:
  • Kent Campus

Admission Requirements
Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree. Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Program Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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| Minor Requirements
CHEM 10060 | GENERAL CHEMISTRY I (KBS)                  | 4-6          |
  or CHEM 10970 | HONORS GENERAL CHEMISTRY I (KBS)      |              |
  or CHEM 11060 | GENERAL CHEMISTRY I BOOST (KBS)       |              |
CHEM 10061 | GENERAL CHEMISTRY II (KBS)               | 4            |
  or CHEM 10971 | HONORS GENERAL CHEMISTRY II (KBS)     |              |
CHEM 10062 | GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB) | 1       |
CHEM 10063 | GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB) | 1       |
CHEM 20481 | BASIC ORGANIC CHEMISTRY I               | 4-6          |
  or CHEM 30481 | ORGANIC CHEMISTRY I               |              |
  & CHEM 30482 | ORGANIC CHEMISTRY II              |              |
CHEM 30301 | INORGANIC CHEMISTRY I                  | 3            |
Minor Electives, choose from the following: 7-9
CHEM 20482 | BASIC ORGANIC CHEMISTRY II            |              |
CHEM 30105 | ANALYTICAL CHEMISTRY I                |              |
CHEM 30106 | ANALYTICAL CHEMISTRY II               |              |
CHEM 30107 | ANALYTICAL CHEMISTRY LABORATORY I (WIC)|              |
CHEM 30108 | ANALYTICAL CHEMISTRY LABORATORY II (WIC)|          |
CHEM 30284 | INTRODUCTORY BIOLOGICAL CHEMISTRY     |              |
  or CHEM 40245 | BIOCHEMICAL FOUNDATIONS OF MEDICINE |              |

or CHEM 40261 | BIOCHEMISTRY: BIOMOLECLE STRUCTURE AND FUNCTION |
   CHEM 30475 | ORGANIC CHEMISTRY LABORATORY I (ELR)       |
   CHEM 30476 | ORGANIC CHEMISTRY LABORATORY II           |
   CHEM 40109 | BIOANALYTICAL CHEMISTRY                  |
   CHEM 40248 | ADVANCED BIOLOGICAL CHEMISTRY            |
   or CHEM 40262 | BIOCHEMISTRY: METABOLISM AND GENE EXPRESSION |
   CHEM 40251 | ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC) |
   CHEM 40263 | PHYSICAL BIOCHEMISTRY                    |
   CHEM 40302 | INORGANIC CHEMISTRY II                   |
   CHEM 40352 | INORGANIC MATERIALS CHEMISTRY            |
   CHEM 40365 | BIOLOGICAL INORGANIC CHEMISTRY           |
   CHEM 40451 | ORGANIC MATERIALS CHEMISTRY              |
   CHEM 40476 | SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS |
   CHEM 40483 | INTERMEDIATE ORGANIC CHEMISTRY           |
   CHEM 40555 | PHYSICAL CHEMISTRY I 1                   |
   CHEM 40556 | PHYSICAL CHEMISTRY II 1                  |
   CHEM 40559 | NANOMATERIALS                            |
   CHEM 40567 | PHYSICAL CHEMISTRY FOR LIFE SCIENCES 1    |
   CHEM 40568 | ELEMENTARY PHYSICAL CHEMISTRY LABORATORY |
   CHEM 40571 | SURFACE CHEMISTRY                        |

Minimum Total Credit Hours: 24

1 Students who complete CHEM 40555 or CHEM 40556 may not take CHEM 40567.

Graduation Requirements

Minimum Minor GPA 2.000
Minimum Overall GPA 2.000

• Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
• Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
• Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes
Graduates of this program will be able to:
1. Comprehend the chemistry that underlies several fields, such as materials, industrial and biological chemistry.
2. Demonstrate skills in basic scientific report writing.