

# 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

- Program Coordinator: **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 (not Individualized Program major). 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

### Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
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 I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4-6
or CHEM 30481 & CHEM 30482	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY II	
CHEM 30301	INORGANIC CHEMISTRY I	
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: BIOMOLECULE 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 <sup>1</sup>
CHEM 40556	PHYSICAL CHEMISTRY II <sup>1</sup>
CHEM 40559	NANOMATERIALS
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES <sup>1</sup>
CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY
CHEM 40571	SURFACE CHEMISTRY

Minimum Total Credit Hours:

24

<sup>1</sup> Students who complete CHEM 40555 or CHEM 40556 may not take CHEM 40567.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	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.