

CHEMISTRY - M.A.

College of Arts and Sciences

Department of Chemistry and Biochemistry
210 Williams Hall
Kent Campus
330-672-2032
chem@kent.edu
www.kent.edu/chemistry

Description

The Master of Arts degree in Chemistry is for students interested in gaining additional knowledge of chemistry and biochemistry beyond the bachelor's degree. This non-thesis degree program is flexible and can be taken on a full-time or part-time basis. Several course sequences have been designed for students interested in career advancement. The biochemistry interest area is recommended for students seeking to further develop their academic background in biochemistry and chemistry prior to applying to medical school or dental school. The industrial chemistry interest area is ideal for students seeking additional preparation for employment in the chemical industry. Current and future K-12 educators may pursue the chemical education interest area for advance chemical instruction including chemistry pedagogy.

Fully Offered At:

- Kent Campus

Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Completion of undergraduate courses consisting of one year each in analytical chemistry or biochemistry, organic chemistry, physical chemistry, calculus and physics is expected
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Minimum 600 quantitative GRE score or minimum 143 quantitative GRE score is expected (although the subject GRE is not required, candidates are encouraged to provide a subject GRE score to strengthen their application) (Effective Spring 2020, GRE scores will no longer be required)
- Goal statement
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
 - Minimum 525 TOEFL PBT score (paper-based version)
 - Minimum 71 TOEFL IBT score (Internet-based version)
 - Minimum 74 MELAB score
 - Minimum 6.0 IELTS score
 - Minimum 50 PTE score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a core knowledge and understanding of chemical and/or biochemical concepts.
2. Demonstrate a depth of knowledge of specific topics in chemistry and/or biochemistry and/or chemical education.
3. Demonstrate critical thinking and problem solving skills in chemistry and/or biochemistry.
4. Effectively and clearly communicate chemical and/or biochemical concepts and knowledge.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
CHEM 60099	MASTERS CAPSTONE PROJECT	6
Approved 50000 level Chemistry (CHEM) Courses ¹		10-15
Approved 60000 level Courses ²		9-14
Minimum Total Credit Hours:		30

- ¹ Minimum 21 credit hours of classroom courses are required. Students select courses with their advisor. Suggested coursework for the biochemistry interest area includes CHEM 50109, CHEM 50261, CHEM 50262, CHEM 50263, and CHEM 50365. Suggested coursework for the chemical education interest area includes CHEM 50093 and CHEM 50795. Suggested coursework for the industrial chemistry interest area includes CHEM 50093, CHEM 50352, CHEM 50451, CHEM 50571 and CHEM 50559.
- ² At least half of the required credit hours must be taken at the 60000 level. Suggested course work for the chemical education interest area includes CHEM 60894.