CHEMISTRY - M.S.

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 Science degree in Chemistry provides opportunity in
research in the areas of analytical, inorganic, organic and physical
chemistry, as well as biochemistry. Many of the research topics are built
around interdisciplinary themes in biomedical research (bioanalytical,
bioinorganic and biophysical chemistry) and materials science
(nanomaterials, liquid crystals, photonic materials, spectroscopy, surface
science).

FULLY OFFERED AT:
• Kent Campus

Admission Requirements
• Official transcript(s)
• Minimum 3.0 GPA
• Goal statement
• Three letters of recommendation
• 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)

English Language Proficiency Requirements for International
Students: All international students must provide proof of English
language proficiency (unless they meet specific exceptions) by earning a
minimum 525 TOEFL score (71 on the Internet-based version), minimum
74 MELAB score, minimum 6.0 IELTS score or minimum 50 PTE Academic
score. For more information on international admission, visit the Office of
Global Education’s admission website. Effective spring 2018.

For more information about graduate admissions, please visit the
Graduate Studies website.

Program Learning Outcomes
Graduates of this program will be able to:

1. Demonstrate an improved knowledge of a specialization within
   chemistry by their performance on course examinations and
   assessments.
2. Develop their abilities to plan and execute chemical experiments by
   successfully completing an independent research project.
3. Develop their presentation skills by giving two seminars to their
   colleagues in the subdiscipline, by authoring or contributing to
   publications of their research, by oral or poster presentations of their
   research at conferences, and by writing and defending a thesis.

Program Requirements

Major Requirements

[CA-MS-CHEM]

Major Requirements  

CHEM 60199  THESIS I  6
CHEM 60894  COLLEGE TEACHING OF CHEMISTRY  1
Chemistry Electives  2
CHEM 62191  SEMINAR: ANALYTICAL CHEMISTRY  2
CHEM 62391  SEMINAR: INORGANIC CHEMISTRY
CHEM 62491  SEMINAR: ORGANIC CHEMISTRY
CHEM 62591  SEMINAR: PHYSICAL CHEMISTRY
Chemistry Seminars in Development/Problem Solving Electives, choose from the following:
CHEM 60291  SEMINAR: RECENT DEVELOPMENTS IN BIOCHEMISTRY
CHEM 60391  SEMINAR: RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY
CHEM 60591  SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY
CHEM 61191  SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY
CHEM 61491  SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY

Minimum Total Credit Hours:  32

1 A thesis presenting and interpreting the results of original research is
   required. The Department of Chemistry and Biochemistry considers
   research to be a fundamental part of the M.S. degree. Areas in which
   research may be carried out are analytical chemistry, biochemistry,
   inorganic chemistry, organic chemistry and physical chemistry. The
   thesis must be successfully defended in an oral examination before
   the student’s advisory committee.

2 Minimum 13 credit hours of graduate chemistry classroom courses
   are required; one of these courses must be outside the major area.

Graduation Requirements

• Minimum 18 credit hours must be for graduate credit other than
  research and thesis.