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
- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.00 undergraduate GPA on a 4.00 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)
- Goal statement
- Three letters of recommendation
- 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 an improved knowledge of a specialization within chemistry.
2. Plan and execute chemical experiments.

Program Requirements
Major Requirements
[MS-CHEM]

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CHEM 60199</td>
<td>THESIS I 1</td>
<td>6</td>
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<tr>
<td>CHEM 60894</td>
<td>COLLEGE TEACHING OF CHEMISTRY</td>
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<tr>
<td>Chemistry Electives 2</td>
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<td>21</td>
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<td>Chemistry Seminar Electives, choose from the following:</td>
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<tr>
<td>CHEM 62191</td>
<td>SEMINAR: ANALYTICAL CHEMISTRY</td>
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<tr>
<td>CHEM 62391</td>
<td>SEMINAR: INORGANIC CHEMISTRY</td>
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<td>CHEM 62491</td>
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<td>CHEM 62591</td>
<td>SEMINAR: PHYSICAL CHEMISTRY</td>
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<td>Chemistry Seminars in Development/Problem Solving Electives, choose from the following:</td>
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<td>CHEM 60291</td>
<td>SEMINAR: RECENT DEVELOPMENTS IN BIOCHEMISTRY</td>
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<td>CHEM 60391</td>
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<tr>
<td>CHEM 61191</td>
<td>SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY</td>
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<tr>
<td>CHEM 61491</td>
<td>SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY</td>
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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.