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]

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<thead>
<tr>
<th>Major Requirements</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 60199</td>
<td>6</td>
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<tr>
<td>CHEM 60894</td>
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<tr>
<td>Chemistry Electives</td>
<td>21</td>
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<tr>
<td>Chemistry Seminar Electives, choose from the following:</td>
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<td>CHEM 62191</td>
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<td>CHEM 62391</td>
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Chemistry Seminars in Development/Problem Solving Electives, choose from the following:

| 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.