Description
The Master of Science degree in Physics consists of graduate coursework and a research project taking one or two semesters. The research project should result in a written report. Students may choose to complete a thesis, to be defended orally. This degree provides entry-level qualifications for team research employment or a high school teaching career.

Fully Offered At:
• Kent Campus

Admission Requirements
• Bachelor’s degree from an accredited college or university for unconditional admission
• Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
• Official transcript(s)
• GRE (general) test scores
• Résumé or vita
• 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 550 TOEFL PBT score (paper-based version)
  • Minimum 79 TOEFL IBT score (Internet-based version)
  • Minimum 77 MELAB score
  • Minimum 6.5 IELTS score
  • Minimum 58 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 these programs will be able to:

1. Demonstrate cognitive skills important to a physicist, including the following:
   a. Think critically and analytically;
   b. Define and solve problems in physics; and
   c. Conduct quantitative research in a contemporary area of physics.
2. Demonstrate a core knowledge and understanding of the foundations of physics.
3. Communicate results of their work to peers, to various target groups within the physics community, and to people outside the discipline. Teaching skills also come under this heading.

Program Requirements
Major Requirements
[MS-PHY]

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tr>
<td>PHY 65101</td>
<td>CLASSICAL MECHANICS</td>
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<td>PHY 66161</td>
<td>QUANTUM MECHANICS I</td>
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<td>Graduate-Level Electives 1</td>
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<td>PHY 55201</td>
<td>ELECTROMAGNETIC THEORY</td>
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<td>PHY 55301</td>
<td>THERMAL PHYSICS</td>
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<tr>
<td>PHY 55401</td>
<td>MATHEMATICAL METHODS IN PHYSICS</td>
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<td>PHY 65203</td>
<td>CLASSICAL ELECTRODYNAMICS I</td>
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<td>PHY 65301</td>
<td>STATISTICAL MECHANICS I</td>
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<td>PHY 60098</td>
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<td>PHY 60199</td>
<td>THESIS I 3</td>
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Minimum Total Credit Hours: 32

1. Electives are selected in consultation with the student’s faculty advisor and approved by the department.
2. Students who select research (non-thesis option) are required to submit a written research report.
3. Students who select the thesis option are required to submit and orally defend a thesis. The thesis topic is chosen together with the research advisor and must be defended to a committee of physics graduate faculty.