About This Program
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.

Contact Information
- John Portman | jportman@kent.edu | 330-672-9518
- Connect with an Admissions Counselor: U.S. Student | International Student

Program Delivery
- Delivery: In person
- Location: Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements
- Bachelor’s degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- 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 to waive) by earning one of the following:¹
  - Minimum 79 TOEFL iBT score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 DET score

¹ International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines
- Fall Semester
  - Priority deadline: February 1
    *Applications submitted by this deadline will receive the strongest consideration for admission.*
- Spring Semester

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 65101</td>
<td>CLASSICAL MECHANICS</td>
<td>3</td>
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<tr>
<td>PHY 66161</td>
<td>QUANTUM MECHANICS I</td>
<td>3</td>
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<tr>
<td></td>
<td>Graduate-Level Electives</td>
<td>12-14</td>
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<td></td>
<td>Major Electives, choose from the following:</td>
<td>6-8</td>
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<tr>
<td>PHY 55201</td>
<td>ELECTROMAGNETIC THEORY</td>
<td></td>
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<tr>
<td>PHY 55301</td>
<td>THERMAL PHYSICS</td>
<td></td>
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<tr>
<td>PHY 55401</td>
<td>MATHEMATICAL METHODS IN PHYSICS</td>
<td></td>
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<tr>
<td>PHY 65203</td>
<td>CLASSICAL ELECTRODYNAMICS I</td>
<td></td>
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<tr>
<td>PHY 65301</td>
<td>STATISTICAL MECHANICS I</td>
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Culminating Experience
Choose from the following: 6
- PHY 60098 RESEARCH ²
- PHY 60199 THESIS I ³

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.

Graduation Requirements

<table>
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<tr>
<th>Minimum Major GPA</th>
<th>Minimum Overall GPA</th>
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- No more than one-half of a graduate student’s coursework may be taken in 50000-level courses.
- Grades below C are not counted toward completion of requirements for the degree.

Program Learning Outcomes
Graduates of this program 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, various target groups within the physics community and people outside the discipline. Teaching skills also come under this heading.