PHYSICS - M.S.

College of Arts and Sciences Department of Physics www.kent.edu/physics

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

- Hamza Balci | hbalci@kent.edu | 330-672-2577
- 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

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

 Application deadline: September 1 Applications submitted after this deadline will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit
		Hours

Major Requirements	5	
PHY 65101	CLASSICAL MECHANICS	3
PHY 66161	QUANTUM MECHANICS I	3
Graduate-Level Electives ¹		12-14
Major Electives, choose from the following:		6-8
PHY 55201	ELECTROMAGNETIC THEORY	
PHY 55301	THERMAL PHYSICS	
PHY 55401	MATHEMATICAL METHODS IN PHYSICS	
PHY 65203	CLASSICAL ELECTRODYNAMICS I	
PHY 65301	STATISTICAL MECHANICS I	
Culminating Experience		
Choose from the following:		6
PHY 60098	RESEARCH ²	
PHY 60199	THESIS I ³	
Minimum Total Credit Hours:		

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- 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

Minimum Major GPA	Minimum Overall GPA
-	3.000

- 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.
- 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.