

DOCTOR OF PHILOSOPHY WITH A MAJOR IN PHYSICS

Physics: Graduate Information

All PhD programs must incorporate a standard set of Requirements for the Doctoral Degree.

The PhD degree in physics requires:

- 1. Successful completion of a set of core physics courses;
- 2. Successfully passing a Comprehensive Exam (consisting of a written Thesis Proposal and an oral Proposal Exam);
- 3. Successful completion of a minimum of 2 lecture type physics graduate courses (numbered 6000-level or higher; not including the core courses);
- 4. Successful completion of set of courses in a `minor' subject;
- 5. a written PhD thesis

Students are admitted to candidacy when they have completed the first two steps above.

The core physics courses required by the School are as follows:

Code	Title	Credit Hours
Core Physics Courses		
PHYS 6103	Electromagnetism	3
PHYS 6105	Quantum Mechanics I	3
PHYS 6107	Statistical Mechanics I	3
PHYS 6106	Quantum Mechanics II	3
Total Credit Hours		12

In some cases, courses taken to complete the Physics elective requirement (#3 above) may be used to satisfy the Institute requirement that every doctoral student earn 6 credit hours in a minor course of study in a scientific subfield different from the subfield of their PhD thesis research. Alternatively, these credit hours are earned in a school other than physics. Finally, each student must prepare a written dissertation that summarizes the PhD research and present a public, oral defense of the dissertation to a Thesis Exam Committee.