

PHYSICS MINOR

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Program Director: Carter Hall, Ph.D.

This minor provides a rigorous foundation in physics for students who choose not to complete the entire physics major.

Students interested in earning a minor in physics should contact the undergraduate advisor for the Physics Department.

REQUIREMENTS

The minor begins with a set of two introductory courses (6 credits) in electromagnetic fields (PHYS260 or PHYS272) and waves (PHYS270 or PHYS273). As part of this introduction to Physics, the minor also requires a one-credit introductory physics laboratory (PHYS174, PHYS261, or PHYS271) involving techniques of data gathering and analysis. To obtain a deeper understanding of physics, the minor requires three additional upper-level courses (3-4 credits each), which students can select from the list below.

- Other upper level Physics courses can be substituted only with approval from the Department's undergraduate director and the Faculty Minor Advisor.
- All courses must be completed with a grade of "C-" or better to be counted towards the minor.
- No more than 7 credits in this minor can count toward major requirements. Students with more than 7 credits of overlap must substitute non-overlapping 300 or 400 level courses from the above list to reduce the overlap to no more than 7 credits.
- Physics majors and students majoring in Astronomy are not eligible to complete the Physics Minor due to the large number of overlapping course requirements.

Courses Required for the Minor

Course	Title	Credits
Select one of the following:		1
PHYS174	Physics Laboratory Introduction	
PHYS261	General Physics: Mechanics, Vibrations, Waves, Heat (Laboratory)	
PHYS271	General Physics: Electrodynamics, Light, Relativity and Modern Physics (Laboratory)	
PHYS272	Introductory Physics: Fields	3
or PHYS260	General Physics: Electricity, Magnetism and Thermodynamics	
PHYS273	Introductory Physics: Oscillations and Waves	3
or PHYS270	General Physics: Waves, Optics, Relativity and Modern Physics	
Select three of the following:		9-12
PHYS371	Modern Physics	
PHYS373	Mathematical Methods for Physics II	
PHYS375	Experimental Physics III: Electromagnetic Waves, Optics and Modern Physics	
PHYS401	Quantum Physics I	

PHYS402	Quantum Physics II
PHYS404	Introduction to Statistical Thermodynamics
PHYS410	Classical Mechanics
PHYS411	Intermediate Electricity and Magnetism
PHYS474	Computational Physics

Total Credits **16-19**

Prerequisites

MATH140, MATH141, MATH241, MATH240, MATH246, PHYS171 are prerequisites for some of the courses in this program.