

# PHYSICS MINOR

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College of Arts and Sciences

Program Website (<http://physics.cornell.edu>)

## Program Information

Non-physics majors in all Cornell colleges are eligible to earn a Physics minor. To apply to the Physics Minor, visit the Director of Undergraduate studies during office hours or contact [physicsdus@cornell.edu](mailto:physicsdus@cornell.edu) to schedule an appointment.

## Admission to the Minor Requires

- B- or better in two of the introductory physics courses (see introductory sequence below)
- B- or better in two of the mathematics courses which are listed as prerequisites for those courses.

## Minor Requirements

To earn a minor in Physics, a student must:

Complete the following course sequences, with a minimum grade of C-:

### Introductory Sequence with Special Relativity

This requires one course out of each of the following four categories:

- a calculus-based introductory mechanics course (PHYS 2207, PHYS 1112, or PHYS 1116<sup>1</sup>)
- a special relativity course (PHYS 2216<sup>1</sup> or PHYS 1116<sup>1</sup>)
- a calculus-based introductory electromagnetism course (PHYS 2208, PHYS 2213, or PHYS 2217)
- a course on waves (PHYS 2214 or PHYS 2218)

<sup>1</sup> PHYS 1116 may be used to satisfy both requirements (1) and (2).

Students are encouraged to talk with a physics advisor to discuss which sequence is most appropriate for them.

In addition, the following lab(s):

- PHYS 1110 Introduction to Experimental Physics - Introduction to Experimental Physics
- PHYS 2210 Exploring Experimental Physics - Exploring Experimental Physics (only if taking PHYS 2218)

### At Least 3 Physics Courses, Totaling 9 or More Credits at the 3000-Level or Above

- Quantum Mechanics (PHYS 3316<sup>1</sup>) is required
- A lab course such as PHYS 3310, PHYS 3330, PHYS 3360, ASTRO 4410 is required<sup>2</sup>
- One additional 3000+ level physics course of at least 3 credits.

<sup>1</sup> Students with credit for another quantum mechanics class (such as AEP 3610, CHEM 3890, or ECE 4060) may substitute a different upper-level physics course for PHYS 3316. However, students that do so must take a second 3000+ level physics class (minimum 3 credits) to take the place of PHYS 3316.

<sup>2</sup> For the lab class, students may select from PHYS 3310, PHYS 3360, PHYS 4410, AEP 3640, ECE 2100, or BEE 4500.

## Additional Stipulation

With the exception of ASTRO 4410, all courses must be taken in the physics department.