

Physics, Minor

LAPHYMIN

Do you have a desire to better understand the world around you? With a minor in physics, you'll extend your studies in the nature, structure and interactions of matter and radiation while developing the fundamental scientific understanding and problem-solving skills you'll need to succeed in a variety of challenging career opportunities.

Description

The physics minor provides students with the fundamental concepts of physics beyond the introductory level. Through rigorous hands-on experience, students deepen their understanding of foundational concepts and develop their quantitative skills.

Through upper-division electives, students can tailor the minor to enhance their career or graduate school outlook.

At a glance

- **College/School:** [The College of Liberal Arts and Sciences](#)
- **Location:** [Tempe](#) or [Online](#)

Program requirements

[2024 - 2025 Minor Map](#)

[Minor Map \(Archives\)](#)

The minor in physics requires a minimum of 24 credit hours, at least 12 of which must be completed at the upper-division level. Each course must be completed with a grade of "C" (2.00 on a 4.00 scale) or higher.

Required Courses -- 12 credit hours

PHY 121: University Physics I: Mechanics (SCIT OR SQ) AND PHY 122: University Physics Laboratory I (SCIT OR SQ) or PHY 150: Physics I (SCIT OR SQ) (4)

PHY 131: University Physics II: Electricity and Magnetism (SCIT OR SQ) AND PHY 132: University Physics Laboratory II (SCIT OR SQ) or PHY 151: Physics II (SCIT OR SQ) (4)

PHY 252: Physics III (SCIT OR SQ) or PHY 241: University Physics III AND PHY 202: Programming for Physicists (4)

Electives -- 12 credit hours

Choose one of the following options for the remaining required coursework. (12-15)

Option 1

PHY 333: Electronic Circuits and Measurements or PHY 334: Advanced Laboratory I (L) (3)

PHY 361: Introductory Modern Physics (3)

PHY Upper Division Elective (6)

Option 2

PHY 201 and PHY 302 are required.

PHY 201: Mathematical Methods in Physics I (MATH OR CS) (3)

PHY 302: Mathematical Methods in Physics II (3)

Select nine additional credit hours (three courses) from the below list.

PHY 310: Classical Particles, Fields, and Matter I (3)

PHY 311: Classical Particles, Fields, and Matter II (3)

PHY 314: Quantum Physics I (3)

PHY 315: Quantum Physics II (3)

Prerequisite courses may be needed in order to complete the requirements of this minor.

Enrollment requirements

GPA Requirement: None

Incompatible Majors: BS in applied physics; BS in biophysics; BA and BS in physics; BS in physics (secondary education)

Other Enrollment Requirements: None

Current ASU undergraduate students may pursue a minor and have it recognized on their ASU transcript at graduation. Minor requirements appear on the degree audit once the minor is added. Certain major and minor combinations may be deemed inappropriate by the college or department of either the major or the minor program. Courses taken for the minor may not count toward both the major and the minor.

Attend online

ASU Online

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may [view the program's ASU Online page](#) for program descriptions and to request more information.

Career opportunities

Minor programs allow students to develop additional competencies that complement the marketable knowledge and skills they acquire in their majors.

Graduates with a minor in physics have additional analytical and problem-solving skills that are of benefit as they pursue careers in technical fields.

Contact information

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