Physics, Minor

Physics is concerned with the nature, structure and interactions of matter and radiation. A physics minor provides you with the fundamental scientific basis to address the most challenging opportunities you'll face in your career.

Description

The physics minor at the Tempe campus 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 analytical skills. Students can tailor the minor through upper-division electives to enhance their career outlook.

At a Glance

- **College/School:** College of Liberal Arts and Sciences
- **Location:** Tempe campus

2018 - 2019 Major Map
Major Map (Archives)

Program Requirements

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 -- 18 credit hours**

In consultation with an academic advisor in the physics department, students choose either PHY 121 and its corresponding lab, PHY 122, or the single course alternative PHY 150 for a total of four credit hours.

- PHY 121: University Physics I: Mechanics (SQ) (3)
- PHY 122: University Physics Laboratory I (SQ) (1)
- PHY 150: Physics I (SQ) (4)
In consultation with an academic advisor in the physics department, students choose either PHY 131 and its corresponding lab, PHY 132, or the single course alternative PHY 151 for a total of four credit hours.

**PHY 131: University Physics II: Electricity and Magnetism (SQ) (3)**

**PHY 132: University Physics Laboratory II (SQ) (1)**

**PHY 151: Physics II (SQ) (4)**

The following three courses are required.

**PHY 252: Physics III (SQ) (4)**

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

Notes: One of these courses may be used in the required courses area and the other toward elective credit hours in the minor, but neither course may be repeated for credit.

**PHY 361: Introductory Modern Physics (3)**

**Electives (choose two courses) -- 6 credit hours**

**PHY 302: Mathematical Methods in Physics II (3)**

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

**PHY 314: Quantum Physics I (3)**

**PHY 333: Electronic Circuits and Measurements (3)**

**PHY 334: Advanced Laboratory I (L) (3)**

**PHY 465: Advanced Laboratory II (3)**

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

Notes: Students may choose PHY 333 or PHY 334 if not already taken to satisfy the required courses for the minor.

Depending on a student's undergraduate program of study, prerequisite courses may be needed in order to complete the requirements of this minor.

**Enrollment Requirements**

**GPA Requirement:** None

**Majors Ineligible to Add This Minor:** 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. Students interested in pursuing a minor should consult their academic advisor to declare the minor and to ensure that an appropriate set of courses is taken. 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 program or the minor. Courses taken for the minor may not count toward both the major and the minor. Students should contact their academic advisor for more information.

Contact Information

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