Physics, **Minor**

LSPHYMIN

Gain a foundation in computational physics and the experience to apply it.

**Description**

The physics minor program provides a rigorous foundation in physics with an emphasis on fundamental concepts and applied hands-on experience. The program broadens and deepens a student’s understanding of the field and increases options for employment and graduate study.

The primary emphasis of the physics minor is to give students experience through applied and computational physics projects. The projects are guided by faculty with expertise in the physics of semiconductors and graphene, quantum nano-optics, laser physics and materials science.

The program is offered by the College of Integrative Sciences and Arts at the Polytechnic campus.

**At a Glance**

- **College/School:** [College of Integrative Sciences and Arts](#)
- **Location:** [Polytechnic campus](#)

**Program Requirements**

[Minor Map (Archives)](#)
[2021 - 2022 Minor Map](#)

The minor in physics requires 23 credit hours, including a minimum of 12 credit hours of upper-division. A minimum of six upper-division credit hours must be taken in courses offered by the College of Integrative Sciences and Arts. A grade of "C" (2.00 on a 4.00 scale) or better is required in all courses.

**Required Courses -- 17 credit hours**
PHYS 121: University Physics I: Mechanics (SQ) (3)
PHYS 122: University Physics Laboratory I (SQ) (1)
PHYS 131: University Physics II: Electricity and Magnetism (SQ) (3)
PHYS 132: University Physics Laboratory II (SQ) (1)
PHYS 314: Quantum Physics I (3)
PHYS 361: Introductory Modern Physics (3)
PHYS 499: Individualized Instruction (3)

Elective Courses (choose two) -- 6 credit hours

PHYS 201: Mathematical Methods in Physics I (CS) (3)
PHYS 302: Mathematical Methods in Physics II (3)
PHYS 321: Vector Mechanics and Vibration (3)
PHYS 331: Principles of Modern Electromagnetism (3)

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: 2.00 or higher

Incompatible Majors: BA or BS in physics

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.

Career Opportunities

A minor can help students enhance the marketable skills they acquire in their major program and help them develop new skills apart from it, though most career areas do require more training than a minor alone can provide. A minor in physics can help students expand analytical skills as they pursue careers in engineering, postsecondary education or mechanical design.

Contact Information