Physics, Minor

LSPHYMIN

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

Description

The physics minor 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)
2019 - 2020 Minor Map

The minor in physics requires 23 credit hours, as follows:

1. A minimum of six upper-division credit hours in the minor must be taken in courses offered through the College of Integrative Sciences and Arts.

2. Courses that count toward the minor must have a grade of "C" (2.00 on a scale of 4.00) or higher.

3. 12 credit hours of upper-division physics courses are required.
 Required Courses -- 17 credit hours

PHY 121: University Physics I: Mechanics (SQ) (3)
PHY 122: University Physics Laboratory I (SQ) (1)
PHY 131: University Physics II: Electricity and Magnetism (SQ) (3)
PHY 132: University Physics Laboratory II (SQ) (1)
PHY 314: Quantum Physics I (3)
PHY 361: Introductory Modern Physics (3)
PHY 499: Individualized Instruction (3)

 Elective Courses -- 6 credit hours

PHY 201: Mathematical Methods in Physics I (CS) (3)
PHY 302: Mathematical Methods in Physics II (3)
PHY 321: Vector Mechanics and Vibration (3)
PHY 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.

Contact Information

College of Integrative Sciences and Arts | SANCA 233
CISA@asu.edu | 480-727-1526