Physics, BS

LAPHYBS

Learn nature's most fundamental laws to understand the world around us. Through rigorous foundational coursework, you learn to analyze complex problems and gain valuable quantitative reasoning skills that can be applied to any technical field.

Program Description

Physics is concerned with the nature, structure and interactions of matter and radiation.

The BS degree program in physics provides students a solid foundation in physical science and mathematics, which is appropriate for further graduate study in physics, other sciences or engineering programs.

In addition to the guidelines in the Concurrent Program Options section below, students interested in pursuing concurrent or second baccalaureate degrees in The College of Liberal Arts and Sciences are advised to visit The College's website for more information and requirements.
https://thecollege.asu.edu/concurrent-and-second-baccalaureate-degrees

At a Glance

- **College/School:** The College of Liberal Arts and Sciences
- **Location:** Tempe or Online, ASU Local
- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 270 - Calculus w/Analytic Geometry I
  OR MAT 265 Calculus for Engineers I
- **Math Intensity:** Substantial
Required Courses (Major Map)

2022 - 2023 Major Map (On-campus)
2022 - 2023 Major Map (Online)
Major Map (Archives)

Concurrent Program Options

Students pursuing concurrent degrees (also known as a "double major") earn two distinct degrees and receive two diplomas. Working with their academic advisors, students can create their own concurrent degree combination. Some combinations are not possible due to high levels of overlap in curriculum.

Accelerated Program Options

This program allows students to obtain both a bachelor's and master's degree in as little as five years. It is offered as an accelerated bachelor's and master's degree with:

- Materials Science and Engineering, MS
- Nanoscience, PSM

Acceptance to the graduate program requires a separate application. During their junior year, eligible students are advised by their academic departments to apply.

Admission Requirements

General University Admission Requirements:
All students are required to meet general university admission requirements.
First-year | Transfer | International | Readmission

Change of Major Requirements

Current ASU students wishing to change their major to physics should have a minimum cumulative GPA of 2.50 (scale is 4.00 = "A") for all critical classes they have completed.

Students should refer to https://changemajor.apps.asu.edu for information about how to change a major to this program.

Attend Online

ASU Online

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may view the program description and request more information here.
ASU Local

It is now possible to earn an ASU degree with ASU Local, an integrated college experience in which students take advantage of in-person success coaching and programming experiences on site while completing one of 130+ undergraduate online degree programs, all of which come with online faculty interaction and tutoring support. Those interested may learn more about ASU Local here.

Transfer Options

ASU is committed to helping students thrive by offering tools that allow personalization of the transfer path to ASU. Students may use MyPath2ASU™ to outline a list of recommended courses to take prior to transfer.

ASU has transfer partnerships in Arizona and across the country to create a simplified transfer experience for students. These pathway programs include exclusive benefits, tools and resources, and they help students save time and money in their college journey. Students may learn more about these programs by visiting the admission site: https://admission.asu.edu/transfer/MyPath2ASU.

Global Opportunities

Global Experience
Students gain valuable experience when studying abroad, experience which enhances their resumes. With over 250 programs available, study abroad allows students to tailor their experience to their unique interests and skill sets. Students majoring in physics can gain hands-on experience in programs in a variety of countries around the world.

Graduates who possess the heightened cultural competency, leadership and critical thinking skills acquired when studying abroad may stand out in a competitive field. https://goglobal.asu.edu/

Career Opportunities

The broad range of applicability of the principles of physics gives the physicist great flexibility in a choice of career or further education. About half of the graduates with a bachelor's degree in physics go on to graduate school in:

- astronomy
- engineering
- medicine
- physics

Others go directly into employment in areas such as:
Career examples include but are not limited to those shown in the following list. Advanced degrees or certifications may be required for academic or clinical positions.

<table>
<thead>
<tr>
<th>Career</th>
<th>*Growth</th>
<th>*Median Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astronomer</td>
<td>2.4%</td>
<td>$119,730</td>
</tr>
<tr>
<td>Computer Hardware Engineer</td>
<td>1.6%</td>
<td>$119,560</td>
</tr>
<tr>
<td>Materials Engineer</td>
<td>1.5%</td>
<td>$95,640</td>
</tr>
<tr>
<td>Nuclear Engineer</td>
<td></td>
<td>$116,140</td>
</tr>
<tr>
<td>Physicist</td>
<td>7.3%</td>
<td>$129,850</td>
</tr>
<tr>
<td>Physics Professor</td>
<td>4.4%</td>
<td>$90,400</td>
</tr>
<tr>
<td>Scientist/Biochemist</td>
<td>4.0%</td>
<td>$94,270</td>
</tr>
<tr>
<td>Supply Chain Engineer</td>
<td>10.1%</td>
<td>$88,950</td>
</tr>
<tr>
<td>Technical Writer</td>
<td>7.4%</td>
<td>$74,650</td>
</tr>
</tbody>
</table>

* Data obtained from the Occupational Information Network (O*NET) under sponsorship of the U.S. Department of Labor/Employment and Training Administration (USDOL/ETA).

SolarBright Outlook ✓ Green Occupation

Contact Information

Department of Physics | PSF 470
physics.undergrad@asu.edu | 480-965-3561