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.

At a Glance

- **College/School:** The College of Liberal Arts and Sciences
- **Location:** Tempe campus
- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 270 - Calculus w/Analytic Geometry I
- **Math Intensity:** Substantial

Required Courses (Major Map)

[2021 - 2022 Major Map](#)

[Major Map (Archives)](#)
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. 
Freshman | 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](https://changemajor.apps.asu.edu) for information about how to change a major to this program.

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™](http://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 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/pathway-programs](https://admission.asu.edu/transfer/pathway-programs).

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/](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

The others go directly into employment in areas such as:

- business
- education
- engineering
- materials science

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>
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<tr>
<td>Materials Engineer</td>
<td>1.5%</td>
<td>$95,640</td>
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<tr>
<td>Nuclear Engineer</td>
<td></td>
<td>$116,140</td>
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<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>
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<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).

☀ Bright Outlook ☀ Green Occupation
Contact Information

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