Physics, BS

ASU physics majors learn nature's most fundamental laws to understand the world around us. Through rigorous foundational coursework, our physics majors learn how 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 also appropriate for further graduate study in physics, other sciences or engineering programs.

At a Glance

• College/School: 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)

2018 - 2019 Major Map (On-campus)
Major Map (Archives)

Accelerated Degrees
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:

Nanoscience, PSM

Acceptance to the graduate program requires a separate application. During their junior year, eligible students will be 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

A current ASU student has no additional requirements for changing majors. Students should refer to https://students.asu.edu/changingmajors for information about how to change a major to this program.

Transfer Agreements

ASU has partnered with colleges and universities in Arizona, California, Illinois and Washington to provide transfer curriculum pathways. Students should select their current institution to see if there is a partnership agreement between the institution and ASU for this degree program. Students who do not see their state or institution listed should check back as ASU is always working on creating new partnerships.

Transfer from a Maricopa Community College in Arizona

Select a college

• Chandler-Gilbert Community College

Transfer from an Arizona Community College

Select a college

• Arizona Western College
• Central Arizona College

Transfer from another state

Select a state

• California
• Illinois
Global Opportunities

Global Experience

With over 250 programs in more than 65 countries (ranging from one week to one year), study abroad is possible for all ASU students wishing to gain global skills and knowledge in preparation for a 21st century career. Students earn ASU credit for completed courses, while staying on track for graduation, and may apply financial aid and scholarships toward program costs. https://mystudyabroad.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 other half 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>10.0%</td>
<td>$100,590</td>
</tr>
<tr>
<td>Clinical Trial Manager ⭐️</td>
<td>9.9%</td>
<td>$118,970</td>
</tr>
<tr>
<td>Computer Hardware Engineer</td>
<td>5.5%</td>
<td>$115,120</td>
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<tr>
<td>Computer Scientist ⭐️</td>
<td>19.2%</td>
<td>$114,520</td>
</tr>
<tr>
<td>Nanosystems Engineer ✨</td>
<td>6.4%</td>
<td>$97,250</td>
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<tr>
<td>Nuclear Engineer ✨</td>
<td>3.8%</td>
<td>$105,810</td>
</tr>
<tr>
<td>Physicist ⭐️</td>
<td>14.5%</td>
<td>$118,830</td>
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<tr>
<td>Physics Professor ⭐️</td>
<td>10.0%</td>
<td>$87,340</td>
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<tr>
<td>Scientist/Biochemist ⭐️</td>
<td>11.5%</td>
<td>$91,190</td>
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<tr>
<td>Software Developer ✨⭐️</td>
<td>11.1%</td>
<td>$107,600</td>
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<tr>
<td>Software Engineer ⭐️</td>
<td>30.7%</td>
<td>$101,790</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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