Physics (Secondary Education), BS

Are you interested in the physical world yet also have a passion for teaching? In this specialized concentration, you'll gain an excellent foundation in science while building expertise to fill in-demand opportunities in secondary education.

Program Description

The BS program in physics with a concentration in secondary education provides rigorous training in physics and in education. Physics is the cornerstone of STEM disciplines --- science, technology, engineering and mathematics.

In addition to gaining a solid foundation in physical science and mathematics, students acquire the knowledge and skills needed to enter the secondary school teaching profession as a certified physics teacher or attend graduate school for physics.

The shortage of highly qualified physics teachers in every state is an ongoing problem. This concentration is designed to produce more and better-qualified physics teachers to meet local and national needs. Graduates are recommended by the Mary Lou Fulton Teachers College for certification by the State of Arizona.

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)

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 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™ 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.

Global Opportunities

Global Experience
Students wishing to pursue a future in education must understand the diverse set of experiences, backgrounds and cultures that can shape the students in their classrooms. Students can enhance their physics degree with a study abroad program, in which they gain firsthand experience of a wide range of cultures and communities. Programs can be found in more than 65 countries, such as Mexico and Finland. https://goglobal.asu.edu/

Career Opportunities
Graduates of the secondary education concentration have the flexibility to select from jobs in diverse fields. The combination of science and education curriculum provides a range of career choices, such as:

- business
- engineering
- materials science
- secondary education

They can also choose to pursue graduate studies in:

- astronomy
- education
- engineering
- medicine
- physics

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>Computer Programmer</td>
<td></td>
<td>$89,190</td>
</tr>
<tr>
<td>Health Sciences Manager ️🌟</td>
<td>4.8%</td>
<td>$137,940</td>
</tr>
<tr>
<td>High School Teacher</td>
<td>3.8%</td>
<td>$62,870</td>
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<tr>
<td>Physicist</td>
<td>7.3%</td>
<td>$129,850</td>
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<tr>
<td>School Principal</td>
<td>3.9%</td>
<td>$98,490</td>
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<tr>
<td>Scientist/Biochemist</td>
<td>4.0%</td>
<td>$94,270</td>
</tr>
<tr>
<td>Software Developer 🌢</td>
<td></td>
<td>not available</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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