Physics (Secondary Education), BS

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

**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 --- and 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. Students who graduate from this program are recommended by the Mary Lou Fulton Teachers College for certification by the State of Arizona.

**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

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

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.

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

Fewer than half of in-service physics teachers have degrees in physics. Program graduates have tremendous opportunities for employment. With more than one million students in a state ranked seventh in the nation in population growth, the need for certified teachers in Arizona is self-evident. During the last 15 years, ASU graduates have had their pick of teaching jobs around the valley and in the state. After student teaching in school districts in the greater Phoenix area or with one of the 22 Native American nations in Arizona, students are often hired to teach in the same school where they completed their internship. As the predicted rate of population growth climbs and the number of teachers retiring increases, new teachers continue to be in demand.

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>Health Sciences Manager</td>
<td>9.9%</td>
<td>$118,970</td>
</tr>
<tr>
<td>High School Teacher</td>
<td>7.5%</td>
<td>$59,170</td>
</tr>
<tr>
<td>Physicist</td>
<td>14.5%</td>
<td>$118,830</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**

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