Applied Computer Science, BS

ASU is no longer accepting new students to this program. Please explore Degree Search for other similar program options.

Program Description

The BS program in applied computer science provides students with an education that targets the computing profession. Students will learn to use mathematics, science and economics, along with technological knowledge and skill in the application of programming languages and software processes, to design, analyze, implement and test software systems and applications. The program is problem- and project-based, using the languages, tools and methods of computing best practices. Graduates gain significant exposure to team-based software development through industry-driven projects.

This major is eligible for the Western Undergraduate Exchange (WUE) program at the following location: Polytechnic campus. Students from Western states who select this major and campus may be eligible for reduced nonresident tuition at a rate of 150 percent of Arizona resident tuition plus all applicable fees. See more information and eligibility requirements on the Western Undergraduate Exchange (WUE) program.

At a Glance

- **College/School:** Ira A. Fulton Schools of Engineering
- **Location:** Polytechnic campus

- **Additional Program Fee:** No
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 265 - Calculus for Engineers I
- **Math Intensity:** Substantial

Required Courses (Major Map)

2013 - 2014 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

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 current demand for software and computer hardware personnel is high, and the starting salaries for these employees are typically well above the average. Graduates find opportunities as members of an engineering team in software applications areas such as:

- databases
- embedded systems
- game development
- graphics
- mobile systems
- networks
- security
- Web applications

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 Network Technician</td>
<td>8.3%</td>
<td>$62,340</td>
</tr>
<tr>
<td>Computer Programmer</td>
<td></td>
<td>$82,240</td>
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<tr>
<td>Computer Science Professor</td>
<td>8.1%</td>
<td>$78,630</td>
</tr>
<tr>
<td>Computer Scientist</td>
<td>19.2%</td>
<td>$114,520</td>
</tr>
<tr>
<td>Computer Software Quality Engineer</td>
<td>9.3%</td>
<td>$88,510</td>
</tr>
<tr>
<td>Computer System Architect</td>
<td>9.3%</td>
<td>$88,510</td>
</tr>
<tr>
<td>Corporate Web Developer</td>
<td>9.3%</td>
<td>$88,510</td>
</tr>
<tr>
<td>Document Management Specialist</td>
<td>9.3%</td>
<td>$88,510</td>
</tr>
<tr>
<td>Engineering Manager</td>
<td>5.5%</td>
<td>$137,720</td>
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<tr>
<td>Geospatial Information Technologists</td>
<td>9.3%</td>
<td>$88,510</td>
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<tr>
<td>Information Security Analyst</td>
<td>28.5%</td>
<td>$95,510</td>
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<tr>
<td>Information Technology Manager (IT Manager)</td>
<td>12.0%</td>
<td>$139,220</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>
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* 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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