Program Description

The BS program in computer science with a concentration in information assurance provides students with the knowledge and skills needed to build dependable and secure information systems and networks and to ensure the integrity and quality of information being stored, processed and transmitted.

ASU has been certified as a National Center of Academic Excellence in Information Assurance Education and a National Center of Academic Excellence in Information Assurance - Research by the National Security Agency and the Department of Homeland Security. Information assurance courseware at ASU has been certified by the Information Assurance Courseware Evaluation Program to satisfy the standards for Information Systems Security Professionals (NSTISSI 4011) and Senior Systems Managers (CNSSI 4012). For more information on information assurance courseware at ASU, students should refer to http://ia.asu.edu/education.php.


At a Glance

- **College/School:** Ira A. Fulton Schools of Engineering
- **Location:** Tempe campus
- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 265 - Calculus for Engineers I
- **Math Intensity:** Substantial

Required Courses (Major Map)
Accelerated Degrees

This degree is also offered in an accelerated format with:

- Computer Science (Art, Media and Engineering), MS
- Computer Science (Big Data Systems), MCS
- Computer Science (Big Data Systems), MS
- Computer Science (Biomedical Informatics), MS
- Computer Science (Information Assurance), MCS
- Computer Science (Information Assurance), MS
- Computer Science, MCS
- Computer Science, MS

Acceptance to the graduate program requires a separate application. During their junior and senior years, 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

Additional Requirements:

The admission standards for majors in the Ira A. Fulton Schools of Engineering are higher than minimum university standards. International students may have an additional English-language proficiency criterion. Foreign nationals must meet the same admission requirements shown below with the possible additional requirement of a minimum TOEFL score. If the university requires a TOEFL score from the applicant, (see http://global.asu.edu/future/undergrad) then admission to engineering requires a minimum TOEFL score of 550 (paper-based), 213 (computer-based), 79 on iBT (Internet-based) or a minimum IELTS score of 6.5.

Freshman Admission:

1. minimum 1210 SAT combined evidence-based reading and writing plus math score (or 1140 if taken prior to March 5, 2016) or minimum 24 ACT combined score or 3.00 minimum ABOR GPA or class ranking in top 25 percent of high school class, and
2. no high school math or science competency deficiencies
Transfer Admission Requirements

Transfer students with fewer than 24 transferable college credit hours:

1. minimum transfer GPA of 3.00 for less than 24 transfer hours, and
2. no high school math or science competency deficiencies, and
3. minimum 1210 SAT combined evidence-based reading and writing plus math score (or 1140 if taken prior to March 5, 2016) or minimum 24 ACT combined score, or 3.00 minimum ABOR GPA, or class ranking in top 25 percent of high school class

Transfer students with 24 or more transferable college credit hours must meet EITHER the primary OR the secondary criteria (not both):

Primary Criteria

1. minimum transfer GPA of 3.00 for 24 or more transfer hours, and
2. no high school math or science competency deficiencies (if Admission Services requires submission of a high school transcript)

Secondary Criteria

1. minimum transfer GPA of 2.75 for 24 or more transfer hours, and
2. minimum GPA of 2.75 in all critical courses for Terms 1 and 2 (see major map for critical courses)

Change of Major Requirements

Current ASU students should refer to https://engineering.asu.edu/admission-requirements/ for the major change requirements for this program.

Transfer Agreements

ASU has partnered with colleges and universities in Arizona, California, Illinois and Washington to provide transfer curriculum pathways. Select where you are transferring from to see if there is a partnership agreement between your institution and ASU for this degree program. If you do not see your state or institution listed, please check back as we are always working on creating new partnerships.
Career Opportunities

Students enrolled in the information assurance concentration are eligible for federal fellowships, such as the Department of Defense Information Assurance Scholarship Program and the Federal Cyber Service Scholarship for Service Program. For more information on the scholarship programs, students should see [http://ia.asu.edu/scholarship.php](http://ia.asu.edu/scholarship.php).

Graduates with a degree in computer science with an information assurance concentration find employment in a variety of capacities ranging from computer system and software development to research on information assurance technologies. Some related jobs may include:

- analyzing computer forensic data
• designing secure information systems and databases
• developing secure software
• information security consulting
• secure computer and network 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 Administrator</td>
<td>7.9%</td>
<td>$75,790</td>
</tr>
<tr>
<td>Computer Network Analyst</td>
<td>8.7%</td>
<td>$98,430</td>
</tr>
<tr>
<td>Computer Network Technician</td>
<td>7.5%</td>
<td>$61,830</td>
</tr>
<tr>
<td>Computer Programmer</td>
<td></td>
<td>$77,550</td>
</tr>
<tr>
<td>Computer Scientist</td>
<td>10.7%</td>
<td>$108,360</td>
</tr>
<tr>
<td>Computer Software Quality Engineer</td>
<td>3.3%</td>
<td>$83,410</td>
</tr>
<tr>
<td>Computer System Architect</td>
<td>3.3%</td>
<td>$83,410</td>
</tr>
<tr>
<td>Computer Systems Analyst</td>
<td>20.9%</td>
<td>$82,710</td>
</tr>
<tr>
<td>Corporate Web Developer</td>
<td>3.3%</td>
<td>$83,410</td>
</tr>
<tr>
<td>Database Administrator (DBA)</td>
<td>11.1%</td>
<td>$80,280</td>
</tr>
<tr>
<td>Document Management Specialist</td>
<td>3.3%</td>
<td>$83,410</td>
</tr>
<tr>
<td>Geospatial Information Technologists</td>
<td>3.3%</td>
<td>$83,410</td>
</tr>
<tr>
<td>Information Security Analyst</td>
<td>17.9%</td>
<td>$88,890</td>
</tr>
<tr>
<td>Information Technology Manager (IT Manager)</td>
<td>15.4%</td>
<td>$127,640</td>
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<tr>
<td>Nursing Operations Manager</td>
<td>20.9%</td>
<td>$82,710</td>
</tr>
<tr>
<td>Software Developer</td>
<td>13.0%</td>
<td>$102,880</td>
</tr>
<tr>
<td>Software Engineer</td>
<td>18.8%</td>
<td>$95,510</td>
</tr>
<tr>
<td>Telecommunications Engineering Specialist</td>
<td>8.7%</td>
<td>$98,430</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).

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Contact Information