Information Technology, BS

Program Description

Information technology is for those who want to be responsible for designing or architecting, selecting, implementing and managing computer-based information solutions. Information technology students learn to design and create effective networking technology solutions to today's knowledge-based problems.

In the BS degree program in information technology, students create project solutions to hone technical, team and personal development and presentation skills. Integrated laboratory and lecture courses provide students with the necessary skills to become valued contributors within any organization in an information technology role. In addition to selecting a primary focus area (networking and security, information systems or enterprise computing), students create their own secondary focus area that meets their specific career objectives. Each student is required to successfully complete an industry-based capstone project prior to graduation.

Graduates will have the ability to support and lead technical professionals in three focus areas: networking and security, information systems and enterprise computing. They design and create network architectures, configure and administer complex computer and database systems, analyze security issues, and support enterprise usage involving information technology.

The networking and security focus explores the tools, frameworks, technologies and processes underlying the design, development, deployment and support of computer networks. This includes a background that embraces confidentiality, integrity and availability in networking architectures and security analysis.

The information systems focus provides students with the concepts associated with database structure, including cloud computing, database security and control, structured query language programming, and database management systems.
The enterprise computing focus provides students with an understanding of the enterprise and how information technology is used to further business interests. It includes many aspects of using technology to support the overall enterprise, including operations, funding and promotion. Students learn how technology can be used in business strategy and creating innovative new ways to support business.

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 or online
- **Additional Program Fee**: No
- **Second Language Requirement**: No
- **First Required Math Course**: MAT 210 - Brief Calculus
- **Math Intensity**: Substantial

Required Courses (Major Map)

2018 - 2019 Major Map (On-campus)
2018 - 2019 Major Map (Online)
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:

Information Technology, MS

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 the major to this program.

Attend Online

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may view the program description and request more information here.

Transfer Options

ASU is committed to helping you thrive by offering tools that allow you to personalize your transfer path to ASU. Students may use the Transfer Map search 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. Learn more about these programs by visiting the Admissions site.

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

Graduates of the information technology bachelor's degree program are well-qualified for careers in any IT discipline. This degree couples technical skills with the business skills needed to develop, create or manage technical functions. Some graduates may pursue careers as technical support staff or security analysts based on the focus area and secondary skills they achieve.

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>6.1%</td>
<td>$81,100</td>
</tr>
<tr>
<td>Computer Network Analyst</td>
<td>6.5%</td>
<td>$104,650</td>
</tr>
<tr>
<td>Computer Network Technician</td>
<td>8.3%</td>
<td>$62,340</td>
</tr>
<tr>
<td>Computer Systems Analyst</td>
<td>9.1%</td>
<td>$88,270</td>
</tr>
<tr>
<td>Database Administrator (DBA)</td>
<td>11.5%</td>
<td>$87,020</td>
</tr>
<tr>
<td>Information Security Analyst</td>
<td>28.5%</td>
<td>$95,510</td>
</tr>
<tr>
<td>Security Manager</td>
<td>8.0%</td>
<td>$105,610</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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