

Information Technology, BS

TSIFTBS

Program description

Technology continues to evolve each day. Every organization needs information technology professionals to protect their networks, troubleshoot computer systems, develop applications and manage IT projects.


The BS program in information technology covers key disciplines that incorporate emerging technologies, including agile software development, data management and analytics, network administration, cloud computing and cybersecurity.

Students have the opportunity to select technical electives in different interdisciplinary areas. Students learn in a project-driven curriculum with a learn-by-doing approach that prepares them for careers in IT.

Accredited by the Computing Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and the Information Technology Program Criteria.

This major is eligible for the Western Undergraduate Exchange 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% of Arizona resident tuition plus all applicable fees. Students should click the link for more information and eligibility requirements of [the WUE program](#).

At a glance

- **College/School:** [Ira A. Fulton Schools of Engineering](#)
- **Location:** [Polytechnic](#) **WUE** or [Online](#), [ASU Local](#)
- **Second language requirement:** No
- **First required math course:** MAT 210 - Brief Calculus
- **Math intensity:** Moderate 

Required courses (Major Map)

[2024 - 2025 Major Map \(on-campus\)](#)

[2024 - 2025 Major Map \(online\)](#)

[Major Map \(Archives\)](#)

Concurrent program options

Students pursuing concurrent degrees (also known as a "double major") earn two distinct degrees and receive two diplomas. Working with their academic advisors, students can create their own concurrent degree combination. Some combinations are not possible due to high levels of overlap in curriculum.

Accelerated program options

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 plus master's degree](#) with:

[Human Systems Engineering \(Intelligent Systems\), MS](#)

[Information Technology, MS](#)

Acceptance to the graduate program requires a separate application. Students typically receive approval to pursue the accelerated master's during the junior year of their bachelor's degree program. Interested students can learn about eligibility requirements and [how to apply](#).

Admission requirements

General university admission requirements:

All students are required to meet general university admission requirements.

[First-year](#) | [Transfer](#) | [International](#) | [Readmission](#)

Tuition information

When it comes to paying for higher education, everyone's situation is different. Students can learn about [ASU tuition and financial aid](#) options to find out which will work best for them.

Change of Major Requirements

A current ASU student must have a minimum cumulative ASU GPA of 2.00 (scale is 4.00 = "A").

Students should visit the [Change of Major form](#) for information about how to change a major to this program.

Attend online

ASU Online

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may [view the program's ASU Online page](#) for program descriptions and to request more information.

ASU Local

It is now possible to earn an ASU degree with [ASU Local](#), an integrated college experience in which students take advantage of in-person success coaching and programming experiences on site while completing one of 130+ undergraduate online degree programs, all of which come with online faculty interaction and tutoring support.

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 they help students save time and money in their college journey.

Program learning outcomes

Program learning outcomes identify what a student will learn or be able to do upon completion of their program. This program has the following program outcomes:

- Ability to analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions (ABET)
- Ability to design, implement and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline (ABET)
- Ability to communicate effectively in a variety of professional contexts (ABET)
- Ability to recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles (ABET)
- Ability to function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline (ABET)
- Ability to use systemic approaches to select, develop, apply, integrate and administer secure computing technologies to accomplish user goals (ABET)
- Ability to use the principles and practices of Information Technology project management (ABET)

Global opportunities

Global experience

With more than 300 [Global Education program opportunities](#) available to them, information technology students are able to tailor their experience to their unique interests and skill sets. Whether in a foreign country, in the U.S. or online, students build communication skills, learn to adapt and persevere, and are exposed to research and internships across the world, increasing their professional network.

Career opportunities

IT careers are growing fast, according to the Bureau of Labor Statistics:

<https://www.bls.gov/ooh/computer-and-information-technology/home.htm>. The exciting career path of an IT professional can place graduates in positions around the world, in any industry. Such industries include:

- biomedical
- construction
- defense
- education
- entertainment
- geospatial
- informatics
- sports
- sustainable environments

Example job titles and salaries listed below are not necessarily entry level, and students should take into consideration how years of experience and geographical location may affect pay scales. Some jobs also may require advanced degrees, certifications or state-specific licensure.

Career	*Growth	*Median salary
<u>Computer Network Administrator</u>	2.5%	\$90,520
<u>Computer Network Analyst</u>	3.5%	\$126,900
<u>Computer Network Technician</u> ☀	7.0%	\$68,050
<u>Computer Systems Analyst</u> ☀	9.6%	\$102,240
<u>Database Administrator (DBA)</u> ☀	7.0%	\$99,890
<u>Information Security Analyst</u> ☀	31.5%	\$112,000
<u>Security Manager</u> ☀	4.6%	\$99,030

* 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](#)

Contact information

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