

Computer Science, BA

ESCSEBA

Learn how to apply design and development principles in the construction of software systems of varying complexity and how to communicate effectively with a wide range of audiences.

Program description

The BA program in computer science is anchored with core courses that provide a solid foundation in the practical aspects of computer science, and it ensures that students have the requisite critical thinking, effective programming and problem-solving skills for a future in industry. The program provides opportunities for students to customize their degree with other areas of interest with a robust offering of computing electives covering various disciplines such as:

- app development
- cybersecurity
- databases
- data science
- networking
- software development


GI Bill® benefits

This new program is not yet approved for use with GI Bill® benefits.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs. More information about education benefits offered by VA is available at the official U.S. government website at

<https://www.benefits.va.gov/gibill/>.

At a glance

- **College/School:** [Ira A. Fulton Schools of Engineering](#)
[New College of Interdisciplinary Arts and Sciences](#)
- **Location:** [West Valley](#)
- **Second language requirement:** No
- **First required math course:** MAT 210 - Brief Calculus
- **Math intensity:** Substantial 

Required courses (Major Map)

[2024 - 2025 Major Map](#)

[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.

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 has no additional requirements for changing majors.

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

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.

Global opportunities

Global experience

Students learn to thrive in a global environment through the rich educational and interpersonal experiences inherent in study abroad. A resume enhanced by the valuable study abroad experience will impress prospective employers, and it will also help the student stand out should they decide to pursue advanced study.

With over 300 [Global Education program opportunities](#) available, 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

Graduates are well-prepared for pursuing careers in a wide variety of computing-related fields or to embark on further graduate studies. They secure employment in a variety of capacities, such as in computer and software design or the development of information technologies. Computer science graduates can excel in system and software development. Some computer science-related jobs include:

- creating computer games and graphics systems
- developing mobile computing applications
- developing security applications
- discovering data management and mining solutions

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
Business Intelligence Analyst 🌟	35.2%	\$103,500
Computer Programmer		\$97,800
Data Scientist 🌟	35.2%	\$103,500
Database Administrator (DBA) 🌟	7.0%	\$99,890
IT Project Manager 🌟	9.7%	\$98,740
Information Security Analyst 🌟	31.5%	\$112,000

<u>Information Technology Manager (IT Manager)</u> 	15.4%	\$164,070
<u>Software Developer</u> 	25.7%	\$127,260

* 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

Computer Science and Engineering Program and School of Mathematical and Natural Sciences | CTRPT
105

SCAL.Undergrad.Admission@asu.edu | 480-965-3199