Engineering Science (Business), BS

ESESCBUSBS

Unlock boundless possibilities and dive into a dynamic blend of physics, math and engineering principles, equipping you with the foundation to innovate, design and solve complex challenges. Your future in engineering excellence begins here.

Program description

The BS program in engineering science with a concentration in business in the School of Integrated Engineering prepares students to solve the most demanding problems facing society. The program connects students with the core values of ASU through an innovation-focused interdisciplinary education inclusive of students with a wide range of prior science and math backgrounds.

Coursework emphasizes basic engineering and business principles including engineering design, science, mathematics, artificial intelligence, business intelligence, accounting, supply chain management and ground theory in hands-on, project-based courses taught in makerspaces. Electives provide students with the choice to customize their degrees toward their preferred career pathways. The faculty in the program bring rich interdisciplinary perspectives to courses that foster creativity, critical thinking, communication, context and community by having students solve practical problems in partnership with local industry.

GI BillÂ® benefits

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

GI BillÂ® 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
- **Location:** West Valley

- **Second language requirement:** No
- **First required math course:** MAT 170 - Precalculus
- **Math intensity:** Moderate 

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

With more than 300 Global Education program opportunities available, engineering science 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 of a Bachelor of Science in engineering science are well-prepared for a diverse and rewarding career landscape in areas such as:

- academia and education
- data analysis and modeling
- energy and environmental engineering
- engineering consulting
- manufacturing and quality control
- product design and development
- project management
- research and development
- technical sales and marketing

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
Computer Hardware Engineer	4.6%	$132,360
Data Analyst		$48,880
Engineering Manager	4.1%	$159,920
Field Researcher		$60,410
Project Manager	6.2%	$95,370
Quality Control Manager	1.6%	$107,560
Technical Sales Engineer	4.7%	$108,530

* 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

Professional licensure

ASU programs that may lead to professional licensure or certification are intended to prepare students for potential licensure or certification in Arizona. Completion of an ASU program may not meet educational requirements for licensure or certification in another state. For more information, students should visit the ASU professional licensure webpage.

Students should note that not all programs within the Ira A. Fulton Schools of Engineering lead to professional licensure.

Contact information

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