



## Arizona State University (Polytechnic Campus)

### Robotics and Autonomous Systems, BS

#### Study details

**Course type:** Bachelor's degree

**Degree:** Robotics and Autonomous Systems, BS ESRASBS

**Study mode:** Full time

**Duration:** 48 Month

#### Cost of study

**Cost :** 35 430 USD

**Reg. fee :** 85 USD

**Scholarship :**

**Insurance :** 2 765 USD

#### Intake/s

Jan/May/Aug

#### Requirements

##### Academic requirements

First-year students must:

- Have a 3.00 grade point average (GPA) (a "B" or better where "A"=4.00) from a secondary school. Some ASU programs may have higher admission or English proficiency requirements and may consider a minimum ACT or SAT score.
- Must have three years of high school coursework. (If you are currently in high school, ASU needs to see 9–11 grade coursework. If you have completed high school, ASU needs to see 10–12 grade coursework.)
- Must have and present a completed high school diploma or certificate.

##### Conditional admission

ASU may offer conditional undergraduate admission to international applicants to an on-campus program who meet the academic (aptitude) requirements but who are not proficient in English. This offer of conditional admission will give you time to improve your English proficiency before you start classes at ASU. Your conditional admission offer is good for up to three semesters, during which time you must meet one of these requirements to begin your ASU experience.

##### Competency requirements

International students who completed high school outside the U.S. are required to meet the following competency requirements:

- Math: four years (algebra I, geometry, algebra II and one course requiring algebra II as a prerequisite).

- Laboratory science: three years total (one year each from any of the following areas are accepted: biology, chemistry, earth science, integrated sciences and physics).

## **Provide evidence of English language proficiency (TOEFL 61)**

### **Accommodation**

Provided by partner agencies

### **Speciality**

#### **STEM-OPT for international students on F-1 visas**

This program may be eligible for an Optional Practical Training extension for up to 24 months. This OPT work authorization period may help international students gain skills and experience in the U.S. Those interested in an OPT extension should review ASU degrees that qualify for the STEM-OPT extension at ASU's International Students and Scholars Center website.

The OPT extension only applies to students on an F-1 visa and does not apply to students completing a degree through ASU Online.

### **Additional information**

#### **Program description**

Autonomous systems are those that can work for an extended period without human control or intervention --- such as driverless cars or autonomous mobile robots.

The BS program in robotics and autonomous systems provides students with a well-rounded education in robotics, controls, autonomous systems and automation. It is intended primarily for those who desire to develop general expertise in robotics and autonomous systems, including both theory and application of robotics and autonomous systems technologies, systems integration and data fusion techniques, and modeling and simulation development.

Students learn to perform analysis, evaluation and synthesis for a wide variety of problems related to the design, implementation and efficient operation of robotics and autonomous systems.

#### **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.

#### **Global opportunities**

##### **Global experience**

With more than 300 Global Education program opportunities available to them, robotics and autonomous systems 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

Professionals with a degree in robotics and autonomous systems have substantial opportunities at all levels in manufacturing engineering and in research and development at companies, research institutes and national laboratories (e.g., Department of Defense, Department of Energy, NASA). Relevant careers and related titles include:

- engineer
- manufacturing engineer
- mechanical engineer
- mechatronics engineer
- researcher and scientist