Engineers are creative problem-solvers who help shape the future. Few professions unleash the spirit of innovation like engineering.

**Program Description**

The ABET-accredited BSE in engineering program prepares graduates to collaborate across disciplines to design and build solutions to real-world problems. In the engineering program, students apply engineering fundamental knowledge and design thinking to real projects every semester.

In the Bachelor of Science in Engineering program, students choose a disciplinary concentration where they develop in-depth knowledge in a specific area, as well as a secondary focus area. This flexibility allows students to tailor their degree to achieve their individual career and life goals.

Students can choose from the following concentrations:

- automotive systems
- electrical systems
- mechanical engineering systems
- robotics


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 percent of Arizona resident tuition plus all applicable fees. Students should click the link for more information and eligibility requirements of [the WUE program](http://www.abet.org).

**At a Glance**

- **College/School:** Ira A. Fulton Schools of Engineering
- **Location:** Polytechnic campus
• **Additional Program Fee:** Yes
• **Second Language Requirement:** No
• **First Required Math Course:** MAT 265 - Calculus for Engineers I
• **Math Intensity:** Substantial

## Required Courses (Major Map)

2019 - 2020 Major Map
Major Map (Archives)

## 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://changingmajors.asu.edu/request](https://changingmajors.asu.edu/request) 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 the [Transfer Map search](https://changingmajors.asu.edu/request) 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. Students may learn more about these programs by visiting the admission site: [https://admission.asu.edu/transfer/pathway-programs](https://admission.asu.edu/transfer/pathway-programs).

## 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/](https://mystudyabroad.asu.edu/)

Career Opportunities

Engineers collaborate on transdisciplinary teams to design, manufacture and deliver innovative technological products and services. The Bachelor of Science in Engineering program enables students to develop sophisticated technical skills in tandem with the professional skills of communication, teamwork and collaboration, and self-motivation and adaptability that many employers seek. Graduates are prepared to work in large corporations, government agencies and small businesses, as well as to go on to graduate school to pursue advanced degrees. The program’s emphasis on open-ended design and project-based learning supports the development of entrepreneurial skills and attitudes, and some students start companies of their own.

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>Automation Engineer</td>
<td>6.4%</td>
<td>$97,250</td>
</tr>
<tr>
<td>Automotive Engineer</td>
<td>8.8%</td>
<td>$85,880</td>
</tr>
<tr>
<td>Electrical Engineer</td>
<td>8.6%</td>
<td>$95,060</td>
</tr>
<tr>
<td>Energy Engineer</td>
<td>6.4%</td>
<td>$97,250</td>
</tr>
<tr>
<td>Fuel Cell Engineer</td>
<td>8.8%</td>
<td>$85,880</td>
</tr>
<tr>
<td>Mechanical Engineer</td>
<td>8.8%</td>
<td>$85,880</td>
</tr>
<tr>
<td>Microsystem Engineer</td>
<td>6.4%</td>
<td>$97,250</td>
</tr>
<tr>
<td>Robotics Engineer</td>
<td>6.4%</td>
<td>$97,250</td>
</tr>
<tr>
<td>Solar Energy Systems Engineer</td>
<td>6.4%</td>
<td>$97,250</td>
</tr>
<tr>
<td>Wind Energy Engineer</td>
<td>6.4%</td>
<td>$97,250</td>
</tr>
</tbody>
</table>
Contact Information

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polyadvising@asu.edu | 480-727-1874