Program Description

The electrical engineering undergraduate program prepares students for positions as electrical engineers.

Following initial coursework in mathematics and sciences, the foundation classes build a solid base of engineering knowledge. The electrical engineering curriculum includes a number of required upper-division electrical engineering and technical elective courses in such areas as circuits; communication, signal processing and control systems; computer engineering; electromagnetics; power; and solid-state devices.

Approved technical elective courses provide students with an opportunity either to broaden their background in electrical engineering or to study in greater depth the technical subjects in which they have special interest.


At a Glance

- **College/School:** Ira A. Fulton Schools of Engineering
- **Location:** Tempe campus or online
- **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)

2020 - 2021 Major Map (On-campus)
2020 - 2021 Major Map (Online)
Major Map (Archives)
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 and master's degree with:

- Computer Engineering (Electrical Engineering), MS
- Electrical Engineering, MSE
- Robotics and Autonomous Systems (Electrical Engineering), MS

Acceptance to the graduate program requires a separate application. During their junior year, eligible students
will be advised by their academic departments to apply.

Admission Requirements

General University Admission Requirements:

All students are required to meet general university admission requirements.

Freshman | Transfer | International | Readmission

Additional Requirements:

The admission standards for majors in the Ira A. Fulton Schools of Engineering are higher than minimum
university standards. International students may have an additional English-language proficiency criterion.
Foreign nationals must meet the same admission requirements shown below with the possible additional
requirement of a minimum TOEFL score. If the university requires a TOEFL score from the applicant, (see
https://admission.asu.edu/international/undergrad-apply) then admission to engineering requires a minimum
TOEFL score of 550 (paper-based), 213 (computer-based), 79 on iBT (internet-based) or a minimum IELTS
score of 6.5.

Freshman Admission:

1. minimum 1210 SAT combined evidence-based reading and writing plus math score or minimum 24
   ACT combined score or 3.00 minimum ABOR GPA or class ranking in top 25 percent of high school
   class, and
2. no high school math or science competency deficiencies

Transfer Admission Requirements:

Transfer students with fewer than 24 transferable college credit hours:

1. minimum transfer GPA of 3.00 for less than 24 transfer hours, and
2. no high school math or science competency deficiencies, and
3. minimum 1210 SAT combined evidence-based reading and writing plus math score (or 1140 if taken prior to March 5, 2016) or minimum 24 ACT combined score, or 3.00 minimum ABOR GPA, or class ranking in top 25 percent of high school class

**Transfer students with 24 or more transferable college credit hours must meet EITHER the primary OR the secondary criteria (not both):**

**Primary Criteria**

1. minimum transfer GPA of 3.00 for 24 or more transfer hours, and
2. no high school math or science competency deficiencies (if Admission Services requires submission of a high school transcript)

**Secondary Criteria**

1. minimum transfer GPA of 2.50 for 24 or more transfer hours, and
2. minimum GPA of 2.75 in all critical courses for Terms 1 and 2 (MAT 265, MAT 266, PHY 121 and PHY 122)

**Change of Major Requirements**

Admission requirements for many majors in the Ira A. Fulton Schools of Engineering are higher than university admission standards: [https://engineering.asu.edu/admission-requirements](https://engineering.asu.edu/admission-requirements).

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.

**Attend Online**

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may view the program description and request more information [here](https://engineering.asu.edu/admission-requirements).

**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 to outline a list of recommended courses to take prior to
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**

Graduates with the bachelor’s degree in electrical engineering find many exciting opportunities in industry. These include:

- communication equipment and network providers
- computer and peripheral device manufacturers and defense organizations
- consulting companies
- electric power utilities
- semiconductor chip designers and manufacturers

Graduates are also prepared for continued learning experiences, either in a formal graduate program or in continuing education applications.

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>Aerospace Engineer</td>
<td>6.1%</td>
<td>$113,030</td>
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</tbody>
</table>
### Contact Information

**Electrical Engineering Program** | GWC 209
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