

Electrical Engineering, MS

ESEEMS

All students seeking a master's degree in electrical engineering must apply to the [electrical engineering MSE](#) program.

Program description

Degree awarded: MS Electrical Engineering

This program does not accept applications to the MS directly. If interested in the Master of Science program, students should apply to the MSE program and, once admitted, consult with the Master of Science in Engineering program advisors.

The electrical engineering faculty in the Ira A. Fulton Schools of Engineering offer a research program leading to the Master of Science in electrical engineering.

Graduate courses and programs are offered in the following six areas of specialization:

- control systems
- electric power and energy systems
- electromagnetics, antennas and microwave circuits
- electronic and mixed-signal circuit design
- physical electronics and photonics
- signal processing and communications

At a glance

- **College/School:** [Ira A. Fulton Schools of Engineering](#)
- **Location:** [Tempe](#)

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 plus master's degree** with:

Electrical Engineering, BSE

Electrical Engineering (Electric Power and Energy Systems), BSE

Acceptance to the graduate program requires a separate application. Students typically receive approval to pursue the accelerated master's during the junior year of their bachelor's degree program. Interested students can learn about eligibility requirements and [how to apply](#).

Degree requirements

30 credit hours and a thesis

The credits earned toward this research degree must include a minimum of eight courses (24 credit hours minimum) and six credit hours of EEE 599 Thesis. As part of the eight courses, at least two should be outside the area of specialization.

Requirements include:

at least four EEE courses

at least two courses outside the area of specialization

at most two 400-level courses

at least three EEE 500-level courses

at most one EEE 590 Reading and Conference or FSE course
exam

A final oral examination in defense of the thesis completes the master's degree requirements.

Admission requirements

Applicants must fulfill the requirements of both the Graduate College and the Ira A. Fulton Schools of Engineering.

Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree in any field from a regionally accredited institution.

Applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in the last 60 hours of their first bachelor's degree program, or they must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in an applicable master's degree program.

All applicants must submit:

1. graduate admission application and application fee

2. official transcripts
3. proof of English proficiency

Additional Application Information

An applicant whose native language is not English must provide proof of English proficiency regardless of their current residency.

Students desiring the Master of Science in electrical engineering must initially apply to the Master of Science in Engineering program. Students who later obtain a research advisor may transfer to the Master of Science program.

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.

Career opportunities

A graduate with a Master of Science in electrical engineering degree has an advanced understanding of electrical engineering concepts and theories and the ability to develop, contribute to and apply them to their specialization.

Career examples include:

- computer hardware engineer
- computer and information research scientist
- computer network architect
- director of engineering
- electrical engineer
- electrical engineering researcher
- energy engineer

Contact information

[Electrical Engineering Program](#) | GWC 209
askee@asu.edu | 480-965-3424