Computer Engineering (Electrical Engineering), MS

Program Description

Degree Awarded: MS Computer Engineering (Electrical Engineering)

Computer engineering is a transdisciplinary program that builds on the fundamentals of computer science, electrical engineering, applied mathematics, and physical sciences. Graduates of this program will have the knowledge and skills necessary to advance the design, system integration, testing, evaluation and deployment of the state-of-the-art hardware and software for systems that include computing, communications and networking (wired and wireless), control functions, sensing, signal processing and actuation.

The MS program is intended for students who want to gain knowledge deeper than that provided at the bachelor's degree level and sufficient for designing and implementing state-of-the-art systems in industrial research and development positions. The program is also appropriate for students contemplating future doctoral study and desiring to gain experience in research. Master's degree program graduates may work under the direction of scientists and engineers who hold doctorates in high-tech lab settings assisting in developing innovative products and systems that require strong foundational knowledge in the underlying sciences and the ability to synthesize and analyze engineering principles as they relate to the development of new computer engineering technology.

At a Glance

- **College/School:** Ira A. Fulton Schools of Engineering
- **Location:** Tempe campus
Accelerated Degrees

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:

Electrical Engineering, BSE

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

Degree Requirements

30 credit hours and a thesis, or
30 credit hours and a written comprehensive exam, or
30 credit hours and a written comprehensive exam - MIP

Required Core (6 credit hours)
CSE 551 Foundations of Algorithms (3)
EEE 554 Random Signal Theory (3)

Electives (18-24 credit hours)

Culminating Experience (0-6 credit hours)
CEN 599 Thesis (6) or
written comprehensive exam

Additional Curriculum Information
This program has a thesis and a nonthesis option for the culminating experience. Students in the nonthesis option take 24 credit hours of electives, and students in the thesis option take only 18 credit hours to reach the 30 credit hour requirement. Electives are selected in consultation with the academic unit.

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 degree (or equivalent) or a master's degree from a regionally accredited college or university of recognized standing in a related field such as computer engineering, computer science, computer systems engineering or electrical engineering.
Applicants must have a minimum of a 3.00 cumulative GPA (scale is 4.00 = "A") in the last 60 hours of their first bachelor's degree program, or applicants must have a minimum of a 3.00 cumulative GPA (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. personal statement
4. three letters of recommendation (optional)
5. GRE scores
6. proof of English proficiency

Additional Application Information
An applicant whose native language is not English (regardless of current residency) must provide proof of English proficiency via a TOEFL score: https://admission.asu.edu/international/graduate/english-proficiency.

The personal statement should indicate professional goals and reasons for desiring to enroll in the program.

Students who hold a U.S. ABET-accredited undergraduate degree are not required to submit GRE scores.

Global Opportunities
PLuS Alliance
Global Experience
Global Degree

Career Opportunities

Contact Information

Electrical Engineering Program | GWC 209
askee@asu.edu | 480-965-3424
Admission Deadlines