Computer Engineering (Electrical Engineering), PhD

ESCENEPHD

Our transdisciplinary computer engineering program allows you to develop unique skills as you take computer science and electrical engineering courses and participate in projects across the two schools and across our core areas, providing you with combined and high-demand computer science and electrical engineering skills.

Program Description

Degree Awarded: PHD 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 fundamentally advance and develop new paradigms for the design, system integration, testing, evaluation and deployment of 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 PhD program is intended for students with excellent ability in mathematics and physical science who are interested in gaining an in-depth knowledge of the foundational principles of engineering and pursuing a career in academia, research or highly technical entrepreneurial innovation. This doctoral program provides a broader and more in-depth preparation than the MS programs, in anticipation of a demonstrated ability to independently pursue more creative and substantive innovation with higher impact.

At a Glance

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

84 credit hours, a written comprehensive exam, an oral comprehensive exam, a prospectus and a dissertation

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

Concentration and Electives (54 credit hours)

Research (12 credit hours)
CEN 792 Research (12)

Culminating Experience (12 credit hours)
CEN 799 Dissertation (12)

Additional Curriculum Information
Electives are selected in consultation with the academic unit. Students must complete at least 18 credit hours of approved graduate courses from science, engineering or mathematics and at least 24 credit hours of approved computer engineering courses.

A maximum of six credit hours of CEN 790 Reading and Conference may be applied to the plan of study.

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 graduate degree from a regionally accredited institution 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 a student's first bachelor's degree program, or applicants must have a minimum GPA of 3.50 (scale is 4.00 = "A") in the MS or MSE coursework for acceptance into the doctoral program.

All applicants must submit:

1. graduate admission application and application fee
2. official transcripts
3. GRE is required if the undergraduate program is not ABET-accredited.
4. 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. A TOEFL is required for applicants whose native language is not English: https://students.asu.edu/graduate/proficiency.

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