Robotics and Autonomous Systems (Electrical Engineering), MS

This advanced degree program emphasizes competency in the rapidly growing fields of robotics and autonomous systems, with applications in electrical engineering.

Program Description

Degree Awarded: MS Robotics and Autonomous Systems (Electrical Engineering)

One of four concentrations in the multidisciplinary MS program in robotics and autonomous systems, which emphasizes robotics, controls, autonomous systems, artificial intelligence and related fields is the electrical engineering concentration. This concentration is appropriate for students who wish to focus on applications in electrical engineering.

At a Glance

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

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:

- Electrical Engineering, BSE
- Electrical Engineering (Electric Power and Energy Systems), 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 portfolio, or
30 credit hours and a thesis, or
30 credit hours and a written exam

Required Core (6 credit hours)
MAE 501 Linear Algebra in Engineering (3)
MAE 547 Modeling and Control of Robots (3)

Concentration (6 credit hours)

Electives or Research (12-18 credit hours)

Culminating Experience (0-6 credit hours)
EEE 599 Thesis (6), or
written comprehensive exam (0), or
portfolio (0)

Additional Curriculum Information
Students are required to select one of the approved culminating experiences for the concentration.

Students should refer to the academic unit for the approved concentration coursework as well as the available elective and research courses. Elective or research coursework must be selected from among the courses listed for the other three concentrations. Additional electives must be graduate courses in science, engineering, mathematics or others approved by the Graduate Program Committee. Three credit hours of internship may be included among the electives.

A defense is required for the thesis option.

The portfolio includes a poster presentation with content from courses taken in the program. Students must write a portfolio report that includes the highlights of the three projects.

For students who select the comprehensive exam as the culminating experience, a written comprehensive exam is required. Students should see the academic unit for additional information.

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 engineering, science, mathematics or a related field, from a regionally accredited institution.

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.

**Applicants are required to submit:**

1. graduate admission application and application fee
2. official transcripts
3. GRE scores
4. letter of intent or written statement
5. professional resume
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.

**Contact Information**

[Electrical Engineering Program](mailto:AskEE@asu.edu) | GWC 209
AskEE@asu.edu | 480-965-3424