Engineering, MS

TSEGRMS

Program Description

Degree Awarded: MS Engineering
The MS program in engineering consists of a core set of courses designed so that students develop applied analytical expertise across disciplinary boundaries, with direct applications of advanced design principles to system design, management and control.

The student's expertise, developed through the core curriculum, is reinforced with the flexibility of focus area options that include alternative energy, mechanical engineering and manufacturing engineering. The culminating experience options are also flexible, allowing students to tailor the program to support their unique career goals while also becoming problem solvers who create and shape the future.

At a Glance

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

- Engineering (Automotive Systems), BSE
- Engineering (Electrical Systems), BSE
- Engineering (Mechanical Engineering Systems), BSE
- Engineering (Robotics), BSE
- Manufacturing Engineering, BS
Acceptance to the graduate program requires a separate application. During their junior year, eligible students are 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 including the required applied project course (EGR 593)

**Required Core (6 credit hours)**
EGR 520 Engineering Analysis I (3)
EGR 530 Principles of Systems Engineering (3)

**Focus Area (15 credit hours)**

**Electives (3-9 credit hours)**

**Culminating Experience (0-6 credit hours)**
EGR 593 Applied Project (3) or
EGR 599 Thesis (6) or
portfolio (0)

**Additional Curriculum Information**
Students should see the academic unit for a list of approved electives.

The elective credit hours required are dependent upon the chosen culminating experience option. Completion of 30 credit hours of coursework is required for all culminating experience options.

**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 U.S. bachelor's or master's degree from a regionally accredited institution or the equivalent of a U.S. bachelor's degree from an international institution that is officially recognized by that country in engineering, physical sciences, mathematics or a similar field.

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 applicants 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. personal statement
4. professional resume
5. GRE general exam scores
6. proof of English proficiency

Additional Application Information
An applicant whose native language is not English must provide proof of English proficiency regardless of current residency. Applicants should review the Graduate Admission Services website at https://admission.asu.edu/international/graduate/english-proficiency.

If the applicant does not meet the minimum GPA requirements, the application may still be considered. In certain cases, demonstrated aptitude through professional experience or additional postbaccalaureate education will be considered.

A GRE waiver may be requested if the applicant received a bachelor's degree in a related field from the United States with a cumulative GPA of 3.00 or better. Engineering programs must have a bachelor's degree from an ABET accredited program. Students should email polygrad@asu.edu to request a waiver. Applicants can also submit a GRE waiver request form if they have five years of full-time applicable professional experience: https://poly.engineering.asu.edu/wp-content/uploads/2019/05/GRE-Waiver-Request_04.2019.pdf. Students should note that an approved waiver does not guarantee admission.

Application Deadlines

Fall

Spring

Career Opportunities

Engineers collaborate on interdisciplinary teams to design, manufacture and deliver innovative technological products and services. The graduate program enables students to develop not only sophisticated engineering technical skills but also the important professional skills of communication, teamwork and collaboration, and the adaptability that many employers seek.

Graduates are prepared to work in large corporations, government agencies, small businesses, as well as to go on to pursue a doctorate degree. Due to the emphasis on design and project-based learning, the program supports an entrepreneurial spirit, and some students start companies of their own.

Contact Information

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