

Engineering, MS

TSEGRMS

Program description

Degree awarded: MS Engineering

In the MS program in engineering, 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 electrical engineering.

The culminating experience options are also flexible, allowing students to tailor the program to support their specific 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](#)

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:

[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. 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 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 their first bachelor's degree program or in the last 60 hours of their first bachelor's degree program; or a minimum cumulative

GPA of 3.00 (scale is 4.00 = "A") in nine semester hours of graduate coursework from a U.S. institution; or a cumulative GPA of 3.00 (scale is 4.00 = "A") in an applicable conferred master's degree program from a regionally accredited college or university.

All applicants must submit:

1. graduate admission application and application fee
2. official transcripts
3. personal statement
4. professional resume
5. 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. Applicants should review the [Graduate Admission Services website](#).

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.

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.

Application deadlines

Fall

Spring [expand](#)

[expand](#)

Career opportunities

Engineers collaborate on interdisciplinary teams to design, manufacture and deliver innovative technological products and services. Program graduates possess 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 and small businesses, as well as to pursue a doctorate degree. Due to the emphasis on design and project-based learning, the program supports an entrepreneurial spirit, and some graduates start companies of their own.

Contact information

