Aerospace Engineering, MS

Program Description

Degree Awarded: MS Aerospace Engineering

The MS program in aerospace engineering prepares engineers for doctoral study or industrial positions that specialize in research, project management and product innovation in aerospace engineering. The program stresses a sound foundation in technical fundamentals, communication and professionalism. To this end, a broad-based curriculum is offered in design, system dynamics and control; fluid mechanics science and engineering; mechanics and dynamics of solids and structures; and transport phenomena, thermodynamics, and energy.

At a Glance

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

Accelerated Degrees

This degree is also offered in an accelerated format with:

- Aerospace Engineering (Aeronautics), BSE
- Aerospace Engineering (Astronautics), BSE
- Aerospace Engineering (Autonomous Vehicle Systems), BSE
- Mechanical Engineering, BSE
- Mechanical Engineering (Computational Mechanics), BSE
- Mechanical Engineering (Energy and Environment), BSE

Acceptance to the graduate program requires a separate application. During their junior and senior years, 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 including the required applied project course (MAE 593)

The aerospace engineering Master of Science program offers two options: a thesis option and a nonthesis option. All students are admitted to the nonthesis option unless a faculty thesis advisor is secured, at which time the student can initiate a change to the thesis option.

The plan of study must be in accordance with university and program requirements. A minimum cumulative GPA of 3.00 (scale is 4.00 = "A") is required throughout the program. Candidates for the program must complete a minimum of 30 credit hours of courses at the 500 level and above, with a minimum cumulative GPA of 3.00 or above in the following courses:

1. at least 12 credit hours of graduate MAE coursework (500 level and above) for thesis students; at least 15 credit hours of graduate MAE coursework (500 level and above) for nonthesis students
2. at least six credit hours of graduate mathematics-oriented courses (500 level and above)
3. at least six credit hours of additional graduate (500 level and above) courses, which are not restricted to MAE courses or to other technical electives
4. six credit hours of MAE 599 Thesis for thesis students or three credit hours of additional graduate electives (500 level and above) for portfolio students

A final defense of the thesis will be required for students in the thesis option.

A maximum of 3 credit hours of MAE 584 Internship may be counted toward this requirement.

These additional three hours of graduate electives are not restricted to MAE courses.

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 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 a student's 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. official GRE score
4. personal statement
5. resume or curriculum vitae
6. three letters of recommendation
7. proof of English proficiency

Additional Application Information

Admission to the aerospace engineering graduate program is highly competitive.

An applicant whose native language is not English (regardless of current residency) must provide proof of English proficiency via a minimum score of 80 on the Internet-based TOEFL.

Admission to the 4+1 degree program requires a 3.50 ASU GPA (scale is 4.00 = "A") in degree-applicable courses. All applications are subject to review, and admission is not guaranteed.

Applicants should see the program website for application deadlines.

Deadlines

Fall

Spring

Contact Information

Mechanical and Aerospace Engineering Program | ECG 207
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