Program Description

Degree Awarded: PHD Mechanical Engineering

This doctoral program emphasizes original research and provides students with a strong background for employment by academic institutions, government laboratories and industrial research laboratories with a focus on mechanical 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. Modern computational and laboratory facilities are available to support timely research investigations.

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

84 credit hours
qualifying exams
written and oral comprehensive exams
prospectus
dissertation

All students pursuing the PhD are required to pass both a qualifying and a comprehensive examination administered by the program committee.
credit hours of coursework directly related to the research area (18)
credit hours of mathematics (9)
credit hours of graduate elective courses outside the major research area (9)
MAE 792 Research
MAE 799 Dissertation credit hours (12)

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 an accredited U.S. or international institution.

Applicants must have a minimum of a 3.25 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 3.25 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. GRE scores
4. personal statement
5. resume or curriculum vitae
6. three letters of recommendation
7. proof of English proficiency

Additional Application Information

Admission to the mechanical engineering doctoral program is highly competitive. The admission process considers all aspects of the student's application. The typical successful applicant has at least a 3.25 cumulative GPA (scale is 4.00 = "A") in engineering and science coursework in a bachelor's or master's degree program and has high GRE and TOEFL scores. Satisfaction of these conditions does not guarantee admission.

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

Applicants should see the program website for application deadlines.
Deadlines

Fall

Spring

expand

Contact Information

Mechanical and Aerospace Engineering Program | ECG 207
semtegrad@asu.edu | 480-965-4979
Admission Deadlines