

MASTERS DEGREE WITH MAJOR IN MECHANICAL ENGINEERING

Each student must complete a comprehensive and coordinated plan of study requiring depth in one or more of the following areas: mechanical systems, solid body mechanics, fluid mechanics, heat transfer, thermal/fluid systems, helicopter dynamics, materials, controls, robotics and CAD/CAM.

Mission

The mission of the Mechanical Engineering program is to provide students with the in-depth background necessary for advanced work in mechanical engineering; to continue their education at the doctoral level; to conduct basic and applied research; and to provide service to the engineering profession and to the community.

Educational Outcomes

Upon graduation, students will be able to:

1. Demonstrate an ability to perform research, and/or perform advanced engineering analysis in their area of specialty.
2. Formulate and analyze engineering problems, and synthesize and develop appropriate solutions, based on fundamental and advanced principles.
3. Design mechanical systems to meet desired specifications using advanced engineering tools and techniques.

Admission Requirements

Usual admission requirements are as follows:

1. The student must have a baccalaureate degree in engineering, natural science, or mathematics, but preferably in mechanical engineering and from an approved institution. A student who does not have a background in mechanical engineering should expect to take additional undergraduate mechanical engineering course work.
2. The student must demonstrate proficiency in both written and spoken English. A student from a non-English speaking country is required to take the Test of English as a Foreign Language (TOEFL) exam and achieve a score of at least 550.

3. The student must have at least 3.0 (of a 4.0 maximum) grade point average in the last 60 semester hours attempted prior to graduation.
4. The student must have a combined score of 1000 or higher on the verbal and quantitative portions of the Graduate Record Examination (GRE). GRE scores more than five years old will not be accepted.
5. Petitions for admittance to the program will not be accepted when a student wishes to include more than five courses taken as a nondegree-seeking student.

Admission to Candidacy

A student is eligible to apply for candidacy when:

1. He/she has completed a minimum of 9 semester hours as a graduate student.
2. He/she has maintained a minimum of 3.0 GPA in all courses attempted as a graduate student.
3. He/she has filed an approved plan of study for the degree program.

Students should file for candidacy as soon as they are eligible. Usually, no more than 20 semester credit hours of completed work before admission to candidacy will be accepted toward a degree program. A student should be admitted to candidacy prior to beginning work on thesis.

Degree Requirements

Students must satisfy all of the University Graduate Requirements.