MECHANICAL ENGINEERING, MS

Introduction

Program Options

Students in each of the plans may choose one of four options. Each option requires 30 credit hours. In the first three options, the student may choose to specialize in thermal science, mechanics, or biomechanics. The fourth option is the general mechanical engineering option.

- The thermal science option requires 4 courses (12 c/h) in analytical methods, numerical methods, fluid mechanics, and thermodynamics; and 3 courses (9 c/h) in approved electives from a selection of thermal science electives.
- The mechanics option requires 4 courses (12 c/h) in analytical methods, numerical methods, elasticity, and dynamics; and 3 courses (9 c/h) in approved electives from a selection of mechanics electives.
- The biomechanics option requires 5 graduate engineering core courses (15 c/h), and 4 courses (12 c/h) of Biomechanics electives, including MS project, thesis, or internship. Please contact the mechanical engineering department or visit the biomechanics website for more information.
- The general mechanical engineering option requires 6 courses (18 c/h) in analytical methods, numerical methods, fluid mechanics, thermodynamics, elasticity, and dynamics.

After meeting the course requirements for any of the four options the student may select any mechanical engineering graduate course to complete the credit-hour requirements. The student may also take graduate courses approved by an advisor outside of the mechanical engineering program.

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