Introduction
Program Options
Students in each of the plans may choose one of four options. 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 12 semester hours of course
  work in analytical methods, numerical methods, fluid mechanics
  and thermodynamics. The student then selects 9 semester hours of
  course work in approved electives from a selection of thermal science
  electives.
- The mechanics option requires 12 semester hours of course work in
  analytical methods, numerical methods, elasticity and dynamics. The
  student then selects 9 semester hours of course work in approved
  electives from a selection of mechanics electives.
- The biomechanics option requires 30 credit hours to graduate.
  Please contact the mechanical engineering department or visit the
  biomechanics website for more information.
- The general mechanical engineering option requires the student
  to take 18 semester hours of required course work 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
courses approved by an advisor outside of the mechanical engineering
department.

Graduate Education Policies and Procedures apply to this program.

Program Requirements
For the Master of Science (MS) degree in mechanical engineering,
students may choose between three plans with each plan totaling 30
semester hours.

- Plan I - Students following Plan I (thesis option) take 24 semester
  hours of formal course work plus 6 semester hours of thesis work.
- Plan II - Students following Plan II (project option) take 27 semester
  hours of formal course work plus a 3-semester hour final project
  requiring a report.
- Plan III - Students following Plan III (10-course option) take 30
  semester hours of formal course work plus a final comprehensive
  exam.

Students following Plan I or Plan II must submit a proposal to their
examination committee prior to the semester in which they register for
their thesis or project semester hours, and the examination committee
must approve the proposal for the thesis or project.