Minor in Mechanical Engineering

The Mechanical Engineering minor requires 18-19 semester hours of coursework. Of these, 9 semester hours are required courses, and the remaining 9 or 10 are chosen from within one of three “tracks” selected by the student. The tracks: Thermal-Fluid Sciences, Mechanical Systems, and Structural Analysis and Materials, are intended to strengthen the particular area of interest of the student.

Admission Requirements
Admission requires approval of the ME program chair or associate chair. Approval is contingent upon completion of Calculus I, II and III, and Introductory Mechanics, recommendation from major advisor, and space available in the program. A minimum GPA of 3.0 is required for admission into the ME Minor, but this minimum GPA may be raised as space limitations dictate.

To apply
Please complete the online form available at the following link:
Applications are due by November 1 for Spring admission, and April 1 for Fall admission.

Graduation Requirements
Non-engineering majors enrolled in the ME minor must complete the following mathematics courses:

Calc I (MATH 01.130), Calc II (MATH 01.131), Calc III (MATH 01.230)
Linear Algebra (MATH 01.210), Ordinary Differential Equations (MATH 01.231).

Once admitted to the ME minor, the student must complete the required courses listed below, and select one of the three tracks (Thermal Sciences, Mechanical Systems or Structural Analysis and Materials).

Required Courses: 9 sch
2 sh ENGR 01.271 Statics
2 sh ENGR 01.291 Dynamics
3 sh ENGR 01.273 Strength of Materials
2 sh ENGR 01.303 Junior Engineering Clinic I

Thermal Sciences Track: 9 sch
6 sh ME 10.321 Thermal-Fluid Sciences I
3 sh ME 10.4xx Thermal-Fluid ME Senior Elective

Mechanical Systems Track: 9 sch
3 sh ME 10.343 System Dynamics and Control I
3 sh ME 10.344 System Dynamics and Control II
3 sh ME 10.4xx Mechanical Systems ME Senior Elective

Structural Analysis and Materials Track: 10 sch
3 sh ENGR 01.283 Materials Science and Manufacturing
4 sh ME 10.301 Machine Design
3 sh ME 10.4xx Mechanical Systems ME Senior Elective

1 must be currently enrolled in or have completed Calculus II (MATH 01.131) and have completed Introductory Mechanics (PHYS 02.200)
2 must have Junior status within major
3 must be currently enrolled in or have completed Ordinary Differential Equations (MATH 01.231) or Math for Engineering Analysis I (MATH 01.235)
4 must be taken in addition to Technical Electives required by the student’s major