

DESIGN AND SIMULATION OF MECHANICAL SYSTEMS - MINOR

The objectives of the Mechanical Engineering (MEEN) minor in Design and Simulation of Mechanical Systems are to expand the working knowledge of mechanical engineering principles to broader engineering activities and to provide non-MEEN students with a specialized aspect of mechanical engineering to enhance their skill set and capabilities within their discipline-specific field. The minor in Design and Simulation of Mechanical Systems focuses on providing the basic background in design and mechanics through required courses and additional hours that can be selected from senior elective courses in CAE, design of mechanical components, finite element analysis, etc. Candidates for a Mechanical Engineering minor must be high-achieving in their own discipline. Students may apply for the minor as early as their fourth semester of college but before their seventh semester of college.

Program Requirements

Code	Title	Semester Credit Hours
MEEN 363	Dynamics and Vibrations	3
MEEN 368	Solid Mechanics in Mechanical Design	3
MEEN 475	Materials in Design	3
Select two of the following:		6
MEEN 441	Design of Mechanical Components and Systems	
MEEN 442	Computer Aided Engineering	
MEEN 444	Finite Element Analysis in Mechanical Engineering	
MEEN 460	Corrosion Engineering	
MEEN 467	Mechanical Behavior of Materials	
Total Semester Credit Hours		15

Minimum of 6 hours at 300- to 400-level.

Prerequisites of required and elective courses must have a grade of C or better even if not counting toward degree or minor.

Students may substitute up to 6 hours of minor coursework from other College of Engineering departments. Any course substitutions and prerequisite waivers must be approved in advance by the Department of Mechanical Engineering.