

ANALYSIS, DESIGN AND MANAGEMENT OF ENERGY CONVERSION SYSTEMS - MINOR

The objectives of the Mechanical Engineering (MEEN) minor in Analysis, Design and Management of Energy Conversion 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 skillset and capabilities within their discipline-specific field. The minor in Analysis, Design and Management of Energy Conversion Systems focuses on providing the basic background in thermo-fluids through required courses, and additional hours that can be selected from senior elective courses in internal combustion engines, HVAC, building energy 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.

This program was closed for new enrollments effective November 8, 2024 and inactivated on January 2, 2025. Students enrolled on November 8, 2024 will be allowed to complete the program contingent upon proper processes and approvals.

Program Requirements

Code	Title	Semester Credit Hours
MEEN 344	Fluid Mechanics	3
MEEN 421	Thermal-Fluids Analysis and Design	3
MEEN 461	Heat Transfer	3
Select two of the following:		6
MEEN 410	Internal Combustion Engines	
MEEN 436	Principles of Heating, Ventilating and Air Conditioning	
MEEN 437	Principles of Building Energy Analysis	
MEEN 472	Gas Dynamics	
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.