

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:

https://engineering.rowan.edu/prospective_students/requestofminorform.php.

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 ¹
2 sh	ENGR 01.291	Dynamics
3 sh	ENGR 01.273	Strength of Materials
2 sh	ENGR 01.303	Junior Engineering Clinic I ²

Thermal Sciences Track: 9 sch

6 sh	ME 10.321	Thermal-Fluid Sciences I ³
3 sh	ME 10.4xx	Thermal-Fluid ME Senior Elective ⁴

Mechanical Systems Track: 9 sch

3 sh	ME 10.343	System Dynamics and Control I ³
3 sh	ME 10.344	System Dynamics and Control II
3 sh	ME 10.4xx	Mechanical Systems ME Senior Elective ⁴

Structural Analysis and Materials Track: 10 sch

3 sh	ENGR 01.283	Materials Science and Manufacturing
4 sh	ME 10.301	Machine Design ³
3 sh	ME 10.4xx	Mechanical Systems ME Senior Elective ⁴

¹must be currently enrolled in or have completed Calculus II (MATH 01.131) and have completed Introductory Mechanics (PHYS 02.200)

²must have Junior status within major

³must be currently enrolled in or have completed Ordinary Differential Equations (MATH 01.231) or Math for Engineering Analysis I (MATH 01.235)

⁴must be taken in addition to Technical Electives required by the student’s major