

# MECHANICAL ENGINEERING MINOR

**Banner Code: ME**

## Academic Advising

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Mechanical Engineering is the broadest of the engineering disciplines, concerned with anything that moves or uses energy. There are two major stems in mechanical engineering: mechanical systems and thermal fluid systems. Mechanical Engineers design, build, and analyze complex devices, systems and processes that involve the conversion of energy from one form to another, the production of work, and the transport of energy and mass from one location to another. This minor provides a foundation in mechanical engineering and is most appropriate for students with a strong mathematics and science background, such as a major in another engineering or science field. The minor is administered by the Volgenau School Dean's office.

ME 322	Fluid Mechanics
ME 342	Design of Thermal Systems
<b>Option 2: Mechanical Systems</b>	
ME 313	Material Science
ME 341	Design of Mechanical Elements
<b>Option 3: Systems Dynamics and Control</b>	
ME 431	Systems Dynamics
ME 432	Control Engineering
Total Credits	6-7

## Admissions & Policies

### Admissions

To be admitted to the minor, students must have completed MATH 114 Analytic Geometry and Calculus II and PHYS 160 University Physics I (Mason Core)/PHYS 161 University Physics I Laboratory (Mason Core) with a grade of C or better.

### Policies

The minor in mechanical engineering consists of a minimum of 20-21 credit hours of coursework. All students must complete 14 credit hours of core courses. They must also choose one of three 6-7 credit hour elective options. All courses must be completed with a grade of C or better.

## Requirements

### Minor Requirements

Total credits: 20-21

#### Core Courses

ENGR 107	Introduction to Engineering (Mason Core)	2
or ME 151	Practicum in Engineering	
ME 211	Statics	3
ME 212	Solid Mechanics	3
ME 221	Thermodynamics	3
ME 231	Dynamics	3
Total Credits		14

#### Elective Requirements

Select one of the following options: 6-7

##### Option 1: Thermal Fluid Systems