

MECHANICAL ENGINEERING MINOR

There are three options for students interested in a minor in Mechanical Engineering: A general minor that exposes students to the breadth of the field, and two specialized minors—Thermosciences and Mechanical Design—that allow students to pursue a particular area in more depth. The requirements for each of these minors are listed below.

General Minor in Mechanical Engineering

This minor aims to expose students to the breadth of Mechanical Engineering in terms of topics and of analytic and design activities. Students interested in this minor must take the following courses as prerequisites: MATH 41, MATH 42, PHYSICS 41.

<i>Core:</i>		Units
ENGR 14*	Applied Mechanics:Statics	3
ENGR 15*	Dynamics	3
ENGR 30*	Engineering of Thermodynamics	3
ME 70	Introductory Fluids Engineering	4
ME 101	Visual Thinking	3
<i>Plus any two of the following electives:</i>		
ME 80	Stress, Strain, and Strength	4
ME 131A	Heat Transfer	4
ME 161	Dynamic Systems	4
ME 203	Manufacturing and Design	4
	<i>Program total</i>	24

Thermosciences Minor in Mechanical Engineering

Students interested in this minor must take the following courses as prerequisites: MATH 41, MATH 42, MATH 51 (or CME 100), PHYSICS 41.

<i>Core:</i>		Units
ENGR 14*	Applied Mechanics:Statics	3
ENGR 30*	Engineering Thermodynamics	3
ME 70	Introductory Fluids Engineering	4
ME 131A	Heat Transfer	4
ME 131B	Fluid Mechanics	3
ME 140	Integrated Thermal Systems	3
	Program total	20

Mechanical Design Minor in Mechanical Engineering

This minor exposes students to design activities supported by analysis. Students interested in this minor must take the following courses as prerequisites: MATH 41, MATH 42, PHYSICS 41.

<i>Core:</i>		Units
ENGR 14*	Applied Mechanics:Statics	3
ENGR 15*	Dynamics	3
ME 80	Stress, Strain, Strength	4
ME 112	Mechanical Systems	4
<i>Plus any two of the following:</i>		
ME 99	Mechanical Dissection	3
ME 101	Visual Thinking	3
ME 203	Manufacturing and Design	4
<i>Plus one of the following:</i>		
ME 113	Engineering Design	4
ME 210	Introduction to Mechatronics	4
ME 220	Introduction to Sensors	3
	Program total	23–26

*For all of the above minor programs: If ENGR14, 15, or 30 will be taken for the major requirements, other courses may be substituted for these minor requirements via petition. The total number of required units remains the same as listed in the above guidelines.