MECHANICAL ENGINEERING MINOR

Overview

The Mechanical Engineering Minor complements various STEM and non-STEM majors at Tulane by offering a condensed exploration of mechanical systems. It includes the fundamental courses Statics, Dynamics, and Thermodynamics, providing essential knowledge in the field while allowing further exploration via electives. This minor enhances career prospects across industries including aerospace, renewable energy, and manufacturing, preparing students for diverse engineering challenges.

Requirements

Course ID	Title	Credits
Prerequisites		
MATH 1210 & MATH 1220 & MATH 2210	Calculus I and Calculus II and Calculus III	12
PHYS 1310	General Physics I	4
CHEM 1070 & CHEM 1075	General Chemistry I and General Chemistry Lab I	4
Total Credit Hours		**20**

Course ID	Title	Credits
Required Courses		**9**
ENGP 1410	Statics	
ENGP 2420	Engineering Dynamics	
CENG 2120	Thermodynamics I	
or ENGP 2120	Thermodynamics I	
Electives (Choose 3)		**9**
ENGP 2430	Mechanics of Materials	
CENG 2320	Transport I: Fluids	
or BMEN 3440	Biofluid Mechanics	
BMEN 2310	Product & Experimental Design	
or ENGP 2310	Product and Experimental Design	
CENG 3120	Materials Science & Engr	
or ENGP 3120	Materials Science and Engineering	
CENG 3390	Transport II: Heat and Mass	
BMEN 3932	Elements of BMEN Design	
PHYS 3740	Classical Mechanics	
ENGP 3720	Mechanic Behavior of Materials	
ENGP 3180	Introduction to Feedback Control and Control Theory	
or CENG 4500	Chemical Process Control	
or BMEN 3730	Biomedical Signals and Systems	
or ENGP 3730	Signals and Systems	
ENGP 3620	MicroFab and Nanotech	
BMEN 3650	Biomechanics and Biotransport	
CENG 3110	Thermodynamics II	
ENGP 2010 & ENGP 2011	Electric Circuits and Electric Circuits Lab	
ENGP 3380	Materials for Energy	
MATH 4470	Analyt Method Appl Math	
Total Credit Hours		**18**

At least three courses (9 credits) counting toward the minor must not overlap with a student's major.