

MECHANICAL ENGINEERING CERTIFICATE

Engineering Physics majors have the opportunity to focus their elective course work in a specific concentration area and earn a certificate if they are interested in a more focused field of study. Successful completion of an ENGP certificate requires a student to choose any four out of the seven total electives (i.e., out of the four engineering electives, one contemporary physics elective, one classical physics elective, and one broader technical elective) from within a particular concentration area.

Engineering Physics Major (<https://catalog.tulane.edu/science-engineering/physics-engineering/engineering-physics-major/>)

The allowable electives for the Mechanical Engineering Certificate are listed in the Requirements.

Requirements

Course ID	Title	Credits
Four Electives		
Select four courses from the list as explained in the description above:		12
ENGP 2420	Engineering Dynamics ⁴	
ENGP 3620	MicroFab and Nanotech ⁴	
ENGP 3720	Mechanic Behavior of Materials	
BMEN 3300	Biomechanics ⁴	
BMEN 3932	Elements of BMEN Design ⁴	
PHYS 3740	Classical Mechanics ²	
PHYS 4230	Thermal Physics ²	
CENG 2320 or BMEN 3440	Transport Phenomena I ⁴ Biofluid Mechanics	
BMEN 3730 or CENG 4500	Biomedical Signals and Systems ⁴ Chemical Process Control	3
CENG 3390	Transport Phenomena II ⁴	
CENG 3110	Thermodynamics II ⁴	
ARCH 2213	Building, Climate, Comfort ¹	
ARCH 3214	Structural Systems ¹	
Total Credit Hours		15

¹ Satisfies a Broader Technical elective.

² Satisfies a Classical Physics elective.

³ Satisfies a Contemporary Physics elective.

⁴ Satisfies an Engineering elective.