

MECHANICAL GRAPHICS AND DESIGN

The Mechanical Graphics and Design certificate program builds foundational design skills for a broad range of industrial careers. The program provides general mechanical engineering technology fundamentals with emphasis in the design and development of products and machines. Machinery will be animated for motion analysis, strength calculations will be performed, and the basics of AC & DC electricity will be introduced. Students will develop strong analytic and problem-solving skills by applying the principles learned in class to hands-on projects and real-world applications.

Mechanical Graphics and Design Certificate

Freshman Year

		Fall	Spring
CAD 256	SolidWorks Basics	6	
MAT 107	Career Mathematics	3	
	Or any 100 level math or higher		
CAD 257	SolidWorks Intermediate.	6	
EIC 105	Basics of AC & DC Electricity	4	

Advanced Mechanical Graphics and Design Certificate

Freshman Year

		Fall	Spring
CAD 256	SolidWorks Basics	6	
MAT 107	Career Mathematics	3	
	Or any 100 level math or higher		
CAD 257	SolidWorks Intermediate.	6	
EIC 105	Basics of AC & DC Electricity	4	

Sophomore Year

PHY 105	Conceptual Physics	4	
ENT 133	Intro to Mechanical Design	3	
EGT 230	Drafting and Design I.	6	
ENT 256	Rapid Product Development	4	