

Industrial & Engineering Technology

Engineering Technology

A.A.S. Engineering Technology: Mechanical/Manufacturing Emphasis

204402 Revised 10/2020 (Fall 2021)

General Education Requirements		Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 90 with a minimum grade of S or appropriate placement score
ENGL 215	Technical Writing	3		ENGL 101
SPAN 100	Beginning Occupational Spanish	3		
COMM 100	Fundamentals of Speech	3		ENGL 90 with a minimum grade of S or appropriate placement score.
HIST 120 HIST 121 POLS 136	U.S. History to 1865 <i>or</i> U.S. History since 1865 <i>or</i> Introduction to U.S. National Politics <i>or</i>	3		
Option #1 MATH 120 MATH 130	College Algebra and Trigonometry	5-6		MATH 95 with a grade of C or higher or appropriate placement (MATH 120 and 150) MATH 120 (MATH 130)
Option #2 MATH 150	Pre-Calculus or higher			
PHYS 130	General Physics	5		MATH 130 or appropriate placement test score.
Minimum Total General Education Credit Hours		25-26		
Specific Program Requirements:				
EHSS 111	Introduction to Health and Safety for General Industry	1		
ETEC 152	Engineering Graphics and CADD I	5		MATH 95 with a grade of C or higher or appropriate placement
ETEC 153	Descriptive Geometry	3		ETEC 152
ETEC 200	Applied Statics & Mechanics	3		MATH 104 or 130
ETEC 268	Introduction to Structural Steel Design	3		ETEC 152
ETEC 269	CADD II	4		ETEC 152 or 169
Specific Emphasis Requirements				
Mechanical/Manufacturing				
ETEC 258	Introduction to Machine Design	3		ETEC 152
ETEC 270 ETE 271	Inventor <i>or</i> Solidworks	3		ETEC 152
ETEC 272 ETE 273	Advanced Inventor <i>or</i> Advanced Solidworks	3		ETEC 270 ETE 271
CIMM 101	Machine Shop Safety	1		
CIMM 102	Basic Lathe Operation	1		CIMM 101
CIMM 103	Basic Mill Operation	1		CIMM 101
CIMM 121 CIMM 122	CNC Lathe Operation Fundamentals <i>or</i> CNC Mill Operation Fundamentals	4		CIMM 110 CIMM 115
WELD 100	Introduction to Welding/Cutting Processes	1		
Total Credit Hours Required		61-62		