Engineering Technology

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

204402 Revised 12/2016 (Fall 2017)

General Education Requirements		Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30/90 or appropriate placement test score
ENGL 215	Technical Writing	3		ENGL 101
SPAN 100	Beginning Occupational Spanish	3		
COMM 100	Fundamentals of Speech	3		ENGL 30/90 or appropriate placement test score
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	U.S. History to 1865 ***or*** U.S. History since 1865 ***or*** Introduction to Political Science ***or*** Introduction to American National Politics ***or*** Introduction to State and Local Politics	3		
Option #1 MATH 120 MATH 120R and MATH 130 Option #2 MATH 150	 College Algebra or College Algebra w/ Review Trigonometry PreCalculus or higher	5-8		MATH 110 or satisfactory placement test score
PHYS 130	General Physics	5		MATH 130 or appropriate placement test score.
Minimum Total General Education Credit Hours		**18**		
Specific Program Requirements:				
EHSS 111	Introduction to Health and Safety for General Industry	1		
ENGR 101	Introduction to the Profession	1		
ETEC 152	Engineering Graphics and CADD I	5		MATH 40/40L or appropriate placement test score
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 ETEC 271	Parametric Modeling Inventor ***or*** Parametric Modeling Solidworks	3		ETEC 152
ETEC 272 ETEC 273	Adv. Parametric Modeling and Prototyping, Inventor ***or*** Advanced Parametric Modeling and Prototyping, Solidworks	3		ETEC 270 ETEC 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 **or** CNC Mill Operation Fundamentals	4		CIMM 110 CIMM 115
WELD 100	Introduction to Welding/Cutting Processes	1		
Total Credit Hours Required		**62-65**		