

Engineering Technology

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

20400-204402 Revised 2/2015 (Fall 2015)

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	U.S. History to 1865 or	3		
HIST 121	U.S. History since 1865 or			
POLS 135	Introduction to Political Science or			
POLS 136	Introduction to American National Politics or			
POLS 137	Introduction to State and Local Politics			
MATH 180	Analytic Geometry and Calculus I	5		MATH 130 or 150
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
PHYS 130	General Physics or	5		MATH 130 or appropriate placement test score. Enrollment in or completion of MATH 190
PHYS 220	Engineering Physics			
Specific Emphasis Requirements				
Mechanical/Manufacturing				
ETEC 258	Introduction to Machine Design	3		ETEC 152
ETEC 270	Parametric Modeling Inventor or	3		ETEC 152
ETEC 271	Parametric Modeling Solidworks			
ETEC 272	Adv. Parametric Modeling and Prototyping, Inventor or	3		ETEC 270 ETEC 271
ETEC 273	Advanced Parametric Modeling and Prototyping, Solidworks			
CIMM 101	Machine Shop Safety	1		
CIMM 102	Basic Lathe Operation	1		
CIMM 103	Basic Mill Operation	1		
CIMM 121	CNC Lathe Operation Fundamentals or	4		CIMM 110 CIMM 115
CIMM 122	CNC Mill Operation Fundamentals			
WELD 100	Introduction to Welding/Cutting Processes	1		
Total Credit Hours Required		62		