

MANUFACTURING ENGINEERING TECHNOLOGY - AAS

Offered at: Gateway Community and Technical College, Hazard
Community and Technical College

Program Plan Number: 1506137029

Course	Title	Credits
General Education		
ENG 101	Writing I	3
Choose one of the following 4 options:		6-11
MAT 150 & STA 220	College Algebra and Statistics	
MAT 161 & MAT 155 & STA 251	Statistics and Algebra and Trigonometry and Applied Statistics	
MAT 171 & MAT 151 & STA 251	Precalculus and Introduction to Applied Statistics and Applied Statistics	
MAT 171 & STA 220	Precalculus and Statistics	
PSY 110 or SOC 101	General Psychology Introduction to Sociology	3
	Natural Science	3
	Heritage or Humanities	3
	Subtotal	18-23
Technical Core		
CAD 100	Introduction to Computer Aided Design	3
ELT 103	Introduction to Engineering	3
ELT 110	Circuits I	5
FPX 100	Fluid Power	3
FPX 101	Fluid Power Lab	2
MFG 135	Fundamentals of Mechatronics	6
MFG 175	Lean Operations	2
MFG 256	Production Management	3
MFG 295	Manufacturing Engineering Technology Capstone	1
QMS 101	Introduction to Quality Systems	3
	Subtotal	31
Technical Electives		
Select a minimum of Eleven credit hours from the approved technical list below.		
Total Credits		60-65

CMM 110	Fundamentals of Machine Tools - A	3-6
or CMM 112	Fundamentals of Machine Tools - B	
or CMM 114	Fundamentals of Machine Tools	
CMM 118	Metrology/Control Charts	2
CMM 130	Manual Programming	3
CMM 132	CAD/CAM/CNC	3
COM 181	Basic Public Speaking	3
or COM 252	Introduction to Interpersonal Communication	
EET 270	Electrical Motor Controls I	2
IMT 1384	Problem Solving	1
EET 271	Electrical Motor Controls I Lab	2
EET 276	Programmable Logic Controllers	2
EET 277	Programmable Logic Controllers Lab	2
ELT 260	Robotic and Industrial Automation	5
ELT 201	Statics and Strength of Materials	4
QMS 210	Lean Processes	3

Approved Technical Electives

Course	Title	Credits
A minimum of eleven (11) credit hours must be taken from the approved technical electives list. Other courses may be taken with the approval of the program coordinator		
BAS 287 or BAS 288	Supervisory Management Personal and Organizational Leadership	3