



2018 - 2019
Mechatronics
Associate of Applied Science Degree

Fall Year 1		Courses	Credit Hours	
EET 1110 / EET 1110L	Electrical Technology / Lab	4 / 0	16	
EGR 1010A / EGR 1010AL	Engineering Graphics / Lab	2 / 0		
CNC 1110	Basic Gauges and Measurements	3		
CNC 1310 / CNC 1310L	Machining Theory and Methods / Lab	4 / 0		
MATT 1210 / MATT 1210L	Integrated Systems / Lab	3 / 0		
Spring Year 1		Courses	Credit Hours	
Work Session 1	January and February	0	10	
AMT 2050 / AMT 2050L	Principles of Industrial Safety, Health, and Environment / Lab	3 / 0		
EET 1150 / EET 1150L (8 weeks; March - April)	Circuits / Lab	4 / 0		
MATT 1510 / MATT 1510L (8 weeks; March - April)	Mechanical Drives / Lab	3 / 0		
Summer Year 1		Courses	Credit Hours	
Work Session 2	May and June	0	6	
MATT 2110 / MATT 2110L (8 weeks; July and August)	Industrial Controls and Instrumentation / Lab	3 / 0		
ME 2710 / ME 2710L (8 weeks; July and August)	Pneumatics and Hydraulics / Lab	3 / 0		
Fall Year 2		Courses	Credit Hours	
Work Session 3	September and October	0	9	
MATT 2210 / MATT 2210L (8 weeks; November and December)	Programmable Logic Controller Applications / Lab	4 / 0		
MATT 2510 / MATT 2510L (8 weeks; November and December)	General Preventative / Predictive Maintenance / Lab	2 / 0		
MTH 1110 (8 weeks; November and December)	College Algebra I	3		
Spring Year 2		Courses	Credit Hours	
Work Session 4	January and February	0	12	
ENG 1010	College Composition I	3		
MTH 1310 (8 weeks; March and April)	Pre-Calculus	5		
MATT 2220 / MATT 2220L (8 weeks; March and April)	Advanced Programmable Logic Controller Application / Lab	4 / 0		

Summer Year 2		Courses	Credit Hours	
Work Session 5	May and June		0	12
MATT 2710 (8 weeks; July and August)	Shop Floor Networking		1	
SPK 2010 (8 weeks; July and August)	Oral Communication		3	
WELD 2110	Advanced Welding and Cutting Processes		3	
Choose 1 Course from the Following:				
ECN 2010	Principles of Macroeconomics		3	
ECN 2110	Principles of Microeconomics		3	
PSY 1010	Human Relations		3	
PSY 1110	General Psychology		3	
Fall Year 3		Courses	Credit Hours	
Work Session 6	September and October		0	0
Work Session 7	November and December		0	
Spring Year 3		Courses	Credit Hours	
CAD 1410 / CAD 1410L	Introduction to Industrial Materials and Processes / Lab		3 / 0	9
EET 1610 / EET 1610L	Introduction to Robotics / Lab		3 / 0	
ENG 1020	College Composition II		3	
	Capstone Preparation Seminar		0	
Summer Year 3		Courses	Credit Hours	
MATT 2990	Capstone Project		6	6
Program Total				78