



**2019 - 2020
Mechatronics
Associate of Applied Science Degree**

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

Spring Year 2		Courses	Credit Hours		
Work Session 4	January and February		0	10	
ENG 1010	College Composition I		3		
MTH 1120 (8 weeks; March and April)	College Algebra II		3		
MATT 3210 (8 weeks; March and April)	Advanced Programmable Logic Controller Application		4		
MATT 3210L	Advanced Programmable Logic Controller Application Lab		0		
Summer Year 2		Courses	Credit Hours		
Work Session 5	May and June		0	10	
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	Introduction to Industrial Materials and Processes		3	9	
CAD 1410L	Introduction to Industrial Materials and Processes Lab		0		
EET 1610	Introduction to Robotics		3		
EET 1610L	Introduction to Robotics Lab		0		
ENG 1020	College Composition II		3		
	Capstone Preparation Seminar		0		
Summer Year 3		Courses	Credit Hours		
MATT 3990	Capstone Project		3	3	
Program Total			73		