



**2020 - 2021
Mechatronics
Associate of Applied Science Degree
Academic Plan**

Fall Year 1		Courses	Prerequisite(s)	Credit Hours	
AMT 2050	Principles of Industrial Safety, Health, and Environment		Co-requisite(s): AMT 2050L	3	12
AMT 2050L	Principles of Industrial Safety, Health, and Environment Lab		Co-requisite(s): AMT 2050	0	
COM 1010	Composition and Critical Thinking I		Co-requisite(s): MTH 1010	3	
MATT 1350	Introduction to Gas/Arc/Mig/Tig Welding		Co-requisite(s): MATT 1350L	3	
MATT 1350L	Introduction to Gas/Arc/Mig/Tig Welding Lab		Co-requisite(s): MATT 1350	0	
MTH 1010	Quantitative Literacy		Co-requisite(s): COM 1010	3	
Spring Year 1		Courses	Prerequisite(s)	Credit Hours	
COM 1020	Composition and Critical Thinking II		COM 1010, MTH 1010	3	10
MATT 1110	Basic Gauges and Measurements			3	
MATT 1510	Mechanical Drives		Co-requisite(s): MATT 1510L	3	
MATT 1510L	Mechanical Drives Lab		Co-requisite(s): MATT 1510	0	
WRKMT 1010	Beginning Work Experience		AMT 2050	1	
Summer Year 1		Courses	Prerequisite(s)	Credit Hours	
MTH 1110	College Algebra I			3	11
MATT 1150	Electrical Technology and Circuits		Co-requisite(s): MTH 1110, MATT 1150L	4	
MATT 1150L	Electrical Technology and Circuits Lab		Co-requisite(s): MTH 1110, MATT 1150	0	
MATT 1310	Machining Theory and Methods		MATT 1110; Co-requisite(s): MATT 1310L	4	
MATT 1310L	Machining Theory and Methods Lab		Co-requisite(s): MATT 1310	0	
Fall Year 2		Courses	Prerequisite(s)	Credit Hours	
MATT 2110	Industrial Controls and Instrumentation		MATT 1150; Co-requisite(s): MATT 2110L	3	10
MATT 2110L	Industrial Controls and Instrumentation Lab		Co-requisite(s): MATT 2110	0	
MATT 2750	Pneumatics and Hydraulics		Co-requisite(s): MATT 2750L	3	
MATT 2750L	Pneumatics and Hydraulics Lab		Co-requisite(s): MATT 2750	0	
PSY 2050	Self and Society		COM 1010, MTH 1010; Co-requisite(s): COM 1020	3	
WRKMT 2010	Intermediate Work Experience		MATT 1150	1	

Spring Year 2		Courses	Prerequisite(s)	Credit Hours	
MATT 1210	Integrated Systems		MATT 2110, MATT 2750; Co-requisite(s): MATT 1210L	3	7
MATT 1210L	Integrated Systems Lab		Co-requisite(s): MATT 1210	0	
MATT 2210	Programmable Logic Controller Application		MATT 2110; Co-requisite(s): MATT 2210L	4	
MATT 2210L	Programmable Logic Controller Application Lab		Co-requisite(s): MATT 2210	0	
Summer Year 2		Courses	Prerequisite(s)	Credit Hours	
EET 1610	Introduction to Robotics		MTH 1110; Co-requisite(s): EET 1610L	3	7
EET 1610L	Introduction to Robotics Lab		Co-requisite(s): EET 1610	0	
MATT 3210	Advanced Programmable Logic Controller Application		MATT 2210; Co-requisite(s): MATT 3210L	4	
MATT 3210L	Advanced Programmable Logic Controller Application Lab		Co-requisite(s): MATT 3210	0	
Fall Year 3		Courses	Prerequisite(s)	Credit Hours	
MATT 2510	General Preventative/Predictive Maintenance		Co-requisite(s): MATT 2510L	2	6
MATT 2510L	General Preventative/Predictive Maintenance Lab		Co-requisite(s): MATT 2510	0	
MATT 3990	Capstone Project		Program Dean/Director approval	3	
WRKMT 3010	Advanced Work Experience		MATT 3210	1	
Program Total				63	