



**2021 - 2022
Mechatronics
for Non-sponsored Students
Associate of Applied Science Degree
Academic Plan**

Fall Year 1		Courses	Prerequisite(s)	Credit Hours	
AMT 2050	Principles of Industrial Safety, Health, and Environment			3	12
COM 1010	Composition and Critical Thinking I			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			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	