2021 - 2022
Mechatronics
for 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	
COM 1010	Composition and Critical Thinking I		3	
MATT 1350	Introduction to Gas/Arc/Mig/Tig Welding	Co-requisite(s): MATT 1350L	3	12
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	
MATT 1110	Basic Gauges and Measurements		3	
MATT 1510	Mechanical Drives	Co-requisite(s): MATT 1510L	3	10
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	
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	11
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	
MATT 2110L	Industrial Controls and Instrumentation Lab	Co-requisite(s): MATT 2110	0	
MATT 2750	Pneumatics and Hydraulics	Co-requisite(s): MATT 2750L	3	10
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	
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	7
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	
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	7
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	
MATT 2510L	General Preventative/Predictive Maintenance Lab	Co-requisite(s): MATT 2510	0	5
MATT 3990	Capstone Project	Program Dean/Director approval	3	

Spring Year 3	Courses	Prerequisite(s)	Credit Hours	
WRKMT 3010	Advanced Work Experience	MATT 3210	1	
				1

Program Total			63