



**2022 - 2023**  
**Mechatronics**  
**for Sponsored Students**  
**Associate of Applied Science Degree**  
**Academic Plan**

<b>Fall Year 1</b>		<b>Courses</b>	<b>Prerequisite(s)</b>	<b>Credit Hours</b>	
COM 1010	Composition and Critical Thinking I			3	<b>12</b>
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	
MATT 2050	Industrial Safety			3	
MTH 1010	Quantitative Literacy			3	
<b>Spring Year 1</b>		<b>Courses</b>	<b>Prerequisite(s)</b>	<b>Credit Hours</b>	
COM 1020	Composition and Critical Thinking II		COM 1010, MTH 1010	3	<b>10</b>
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	
MATT 1950	Beginning Mechatronics Work Experience		MATT 2050	1	
<b>Summer Year 1</b>		<b>Courses</b>	<b>Prerequisite(s)</b>	<b>Credit Hours</b>	
MATT 1150	Electrical Technology and Circuits		Co-requisite(s): MTH 1110, MATT 1150L	4	<b>11</b>
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	
MTH 1110	College Algebra I			3	
<b>Fall Year 2</b>		<b>Courses</b>	<b>Prerequisite(s)</b>	<b>Credit Hours</b>	
MATT 2110	Industrial Controls and Instrumentation		MATT 1150; Co-requisite(s): MATT 2110L	3	<b>10</b>
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	
MATT 2950	Intermediate Mechatronics Work Experience		MATT 1150	1	
PSY 2050	Self and Society		COM 1010, MTH 1010; Co-requisite(s): COM 1020	3	

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	
MATT 1610	Introduction to Robotics		MTH 1110; Co-requisite(s): MATT 1610L	3	7
MATT 1610L	Introduction to Robotics Lab		MTH 1110; Co-requisite(s): MATT 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	
Spring Year 3		Courses	Prerequisite(s)	Credit Hours	
MATT 3950	Advanced Mechatronics Work Experience		MATT 3210	1	1
<b>Program Total</b>				<b>63</b>	