## **Mechatronics**



## Associate in Applied Science 61-62 Semester Hours

General Education Requirements			Electrical Maintenance Option	
COMM 101	Introduction to Oral Communication	3	ELTC 102 DC Electronics	3
ENGL 101	Composition I	3	ELTC 103 AC Electronics	3
MATH 109	College Algebra for Math & Science	4	ELTC 206 Digital Electronics & Microprocessors	3
Or			ELTC 207 Solid State Electronics	
TMAT 103	Technical Mathematics I	4	Troubleshooting & Measurements	3
MATH 128	Trigonometry	3	ELTC 212 Automation & Control Electronics	3
Or			MAIN 201 Electrical Wiring & Maintenance	3
TMAT 105	Technical Mathematics II	4	MAIN 222 Industrial Controllers	3
	Physical Science Elective	4	Technical Electives*	<u>6</u>
	TOTAL	17-18	TOTAL	27

## **Technical Requirements**

BUSN	145	Employment Success Strategies	1		
CAD	101	Introduction to AutoCAD	3		
<b>CSCI</b>	101	Introduction to Computer			
		Information Science	4		
MAIN	101	Industrial Electricity and Systems	3		
MFTG	115	Manufacturing & Production Processes	3		
TECH	114	Introduction to Technical Graphics	_3		
		TOTAL	17		
Industrial Maintenance Option					
MAIN	102	Mechanical Systems	3		

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MAIN 102	Mechanical Systems	3			
MAIN 202	Fluid Power Systems	3			
MAIN 220	Mechatronics	3			
MAIN 222	Industrial Controllers	3			
MTT 101	Machining Skills I	3			
MTT 201	Machining Skills II	3			
WELD 110	Introduction to Welding Processes	3			
	Technical Electives*	_6			
	TOTAL	27			

## **Program Description**

By enrolling in the Mechatronics Technology program, you learn about industrial electricity and wiring, mechanical applications, and industrial controllers. Depending on your choice to focus on the Industrial Maintenance or Electrical Maintenance option, you may also learn about hydraulic and pneumatic equipment, machining skills, and welding or electronics, microprocessors, and automation controls. When you complete this program, you can seek employment in industrial and facility maintenance or management.

<sup>\*</sup> Technical electives may be taken as approved by advisor or STEM & Business Division; consider choosing these electives in order to earn additional Skills Certificates.