

32 Credit Hour Certificate – Mechatronics

Name: _____ ID#: _____ Date: _____

MACC’s Associate of Applied Science degree in Mechatronics prepares students to be electrical and mechanical technicians who can troubleshoot, maintain, and repair mechanical equipment for today’s highly integrated and automated manufacturing facilities. Courses include intensive hands-on lab components and are designed to create a cross-trained technician with skills in electrical systems, motor control, hydraulics and pneumatics, programmable logic controllers, safety, and quality control.

Taken	Course	Required Courses	Hours	Milestone*
		Directed Electives (See Below)	2	
	BUS150 <u>or</u> LAL101	Business Communications <u>or</u> Composition I	3	
	EET100	DC/AC Electronics – Fall Only	3	
	EET101	^Industrial Electricity – Spring Only	3	
	EET110 <u>or</u> EET111	^Digital Electronics and Control – Spring Only or ^Electric Motor Controls – Fall Only	3	
	IND100	Industrial Safety & Manufacturing Processes – Spring Only	3	
	IND101	Fundamentals of Industrial Maintenance – Fall Only	3	
	IND105	Fluid Power Principles – Spring Only	3	
	IND110	Industrial Print Reading – Fall Only	3	
	IND200 <u>or</u> IND215	^Mechanical Systems – Spring Only or Mechanical Systems for Wind Energy	3	
	MTH130 <u>or</u> MTH140 <u>or</u> MTH142	^Technical Mathematics <u>or</u> ^Precalculus Algebra <u>or</u> ^Quantitative Reasoning	3	MTH130 <u>or</u> MTH140 <u>or</u> MTH142
			32	
		Directed Electives (2 credit hours needed)		
	IND295 <u>or</u> SKL250	^Industrial Technology Internship <u>or</u> ^Employment Seminar	1-2	
	SKL101	College Orientation	1	
		Minimum Required Hours for Certificate	32	

*It is strongly recommended that students successfully complete the Milestone courses as planned on the academic map to ensure completion of the certificate in a timely manner. In addition, if students do not successfully complete the Milestone course(s), they are strongly encouraged to re-enroll in the course(s) the following semester.

**Certificate is granted upon successful completion of all required courses plus directed elective courses totaling a minimum of 32 credit hours.

^Please refer to the course descriptions for pre/co-requisite and placement information. You can only register for these courses if you have met the prerequisite, placed into the course and/or enroll in the co-requisite course(s).