

32 Credit Hour Certificate – Advanced Manufacturing Technology

Name: _____ ID#: _____ Date: _____

MACC's certificate in Advanced Manufacturing Technology prepares the student for entry into the general industrial, manufacturing field. Courses provide skills in basic electrical circuits, electric motor controls, machining, hydraulics, welding, maintenance management, quality control, and production planning. Most courses involve hands-on experience with up-to-date, high-technology equipment found in current manufacturing operations.

Taken	Course	Required Courses	Hours	Milestone*
		Directed Electives	11	
	EET100	DC/AC Electronics – Fall Only	3	
	EET118	^Industrial Electricity & Motor Control – Spring 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	^Mechanical Systems – Spring Only	3	
			32	
		Directed Electives (11 credit hours needed)		
	AMT112	Computer-Aided Design I – Fall Only	3	
	AMT211	^Computer-Aided Design II – Fall Only	3	
	BUS150 <u>or</u> LAL101	^Business Communication <u>or</u> ^Composition I	3	
	IND295 <u>or</u> SKL250	^Industrial Technology Internship <u>or</u> ^Employment Seminar	1-2	
	MSP101	Machine Tool I – Fall Only	3	
	MSP102	^Machine Tool II – Fall Only	3	
	MSP220	CNC Programming and Operations – Spring Only	3	
	MTH140 <u>or</u> MTH142	^College Algebra <u>or</u> ^Quantitative Reasoning	3	
	SKL101	College Orientation	1	
	WLD101	Welding I	3	
	WLD102	^Welding II	3	
		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).