

Student Name: \_\_\_\_\_ Student ID#: \_\_\_\_\_

# Computer-Integrated Machining A50210 Checklist

2025-2026 Catalog Year - Present

## Developmental Reading & English

ENG 025
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## Developmental Mathematics

MAT 035
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## 1st Semester (Fall)

✓	Course:	Course Name:	Credit Hour(s):	Prerequisite:	Corequisite:	Notes:
	ACA 115 Or ACA 122	Success and Study Skills	1			
	BPR 111	Print Reading	2			
	ENG 110 or ENG 111	Freshman Composition Or Writing and Inquiry	3 3	DRE 097 or ENG 025  DRE 098 or ENG 025		
	MAC 141	Machining Applications I	4			
	MAC 141A	Machining Applications I Lab	2		MAC 141	
	MAC 171	Measure/Material & Safety	1			
	MAC 121	Intro. To CNC	2			
	MAC 151	Machining Calculations	2			

**Total: 17 credit hours**

## 2nd Semester (Spring)

✓	Course:	Course Name:	Credit Hour(s):	Prerequisite:	Corequisite:	Notes:
	COM 110 Or COM 231	Intro. To Communications Or Public Speaking	3 3	DRE 097 or ENG 025		
		Humanities/Fine Arts Elective	3	Course Dependant		
	ISC 112	Industrial Systems	2			
	MAC 142	Machining Applications II	4	MAC 141 MAC 141A		
	MAC 142A	Machining Applications II Lab	2		MAC 142	
	MAC 124	CNC Milling	2	MAC 121		
	MAC 152	Machining Calculations	2	MAC 151		

**Total: 18 credit hours**

**3rd Semester (Summer)**

✓	Course:	Course Name:	Credit Hour(s):	Prerequisite:	Corequisite:	Notes:
	<b>DFT 119</b>	Basic CAD	2			
	<b>MAC 143</b>	Machining Applications III	4	MAC 142 MAC 142A		
	<b>MAC 241 AB</b>	Jigs & Fixtures AB	2		MAC 143	

**Total: 8 credit hours****4th Semester (Fall)**

✓	Course:	Course Name:	Credit Hour(s):	Prerequisite:	Corequisite:	Notes:
	<b>MAC 122</b>	CNC Turning	2	MAC 121		
	<b>MAC 224</b>	Advanced CNC Milling	2	MAC 124		
	<b>MAC 241 BB</b>	Jig & Fixtures I BB	2	MAC 241 AB		
	<b>MAT 121</b> Or <b>MAT 171</b>	Algebra/Trigonometry I Or Precalculus Algebra	3 4	DMA 060 Or MAT 035 OR DMA 080 or MAT 035		
	<b>MEC 231</b>	Computer-Aided Manufacturing I	3	DFT 119		
		Elective (see list below)	4	Course dependant		

**Total: 16 or 17 credit hours****5th Semester (Spring)**

✓	Course:	Course Name:	Credit Hour(s):	Prerequisite:	Corequisite:	Notes:
	<b>MAC 226</b>	CNC EDM Machining	2	MAC 121 & MEC 231		
	<b>MEC 232</b>	Computer-Aided Manufacturing II	3	MEC 231		
		Social / Behavioral Elective	3	Course dependant		
		Elective	6	Course dependant		

**Total:****Electives (choose up to 10 credit hours of electives)**

✓	Course:	Course Name:	Credit Hour(s):	Prerequisite:	Corequisite:	Notes:
	<b>ATR 280</b>	Robotic Fundamentals	4			
	<b>WBL 112</b>	Work Based Learning I	2	MAC 141, MAC 141A, &		

				at least 9 credit hours		
	<b>ATR 281</b>	Automated Manufacturing	4	ATR 280		
	<b>MAC 222</b>	Advanced CNC Turning	2	MAC 122 & MEC 231		
	<b>MAC 234</b>	Advanced Multi-Axis Mach	3	MAC 224 & MEC 231		
	<b>MAC 247</b>	Production Tooling	2	MAC 141		
	<b>MAC 248</b>	Production Procedures	2	MAC 122, MAC 124, & MEC 231		
	<b>WLD 112</b>	Basic Welding Processes	2			
	<b>WLD 151</b>	Fabrication I	4	DFT 119 OR DFT 151 & MAC 121		
	<b>WLD 251</b>	Fabrication II	3	WLD 151		

**Total Credit Hours Needed For Graduation: 73-74**

**Questions? Contact:**

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