

Computer-Integrated Machining A50210

Curriculum Sequence Checklist

2025-2026 Catalog Year - Present

Developmental Courses

Table 1: Overview of developmental courses needed for 100 level English and math courses.

ENG 025
MAT 035

1st Semester (Fall)

Table 2: Overview of courses recommended for 1st semester (16 credit hours)

✓	Course:	Course Name:	Credit Hour(s):	Prerequisite:	Corequisite :	Notes:
	ACA 115 Or ACA 122	Success and Study Skills	1			
	BPR 111	Print Reading	2			Offered all 3 semesters but is helpful for the student to take in their first semester
	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			Fall Only, Must be taken before MAC142 and MAC143
	MAC 141A	Machining Applications I Lab	2		MAC 141	Fall Only, Must be taken before MAC142A and MAC143
	MAC 171	Measure/Material & Safety	1			Fall Only
	MAC 178	CNC Turning Operator	1			Fall Only
	MAC 151	Machining Calculations	2			Fall Only, must be taken before MAC152 and should be taken before any MAT classes

2nd Semester (Spring)

Table 3: Overview of courses recommended for 2nd semester (16 credit hours)

✓	Course:	Course Name:	Credit Hour(s):	Prerequisite:	Corequisite :	Notes:
		Humanities/Fine Arts Elective	3	Course Dependent		
	ISC 112	Industrial Systems	2			Fall and Spring Class
	MAC 142	Machining Applications II	4	MAC 141		Spring Only, must be taken

				MAC 141A		before MAC143
	MAC 142A	Machining Applications II Lab	2		MAC 142	Spring Only, must be taken before MAC143
	MAC 122	CNC Turning	2			Spring Only, Must be taken before MAC222
	MAC 152	Machining Calculations	2	MAC 151		Spring Only, should be taken before any MAT classes
	MAC 179	CNC Milling Operator	1			Spring Only

3rd Semester (Summer)

Table 4: Overview of courses recommended for 3rd semester (11 credit hours)

✓	Course:	Course Name:	Credit Hour(s):	Prerequisite:	Corequisite:	Notes:
	DFT 119	Basic CAD	2			Summer Only, Must be taken before MEC231
	MAC 143	Machining Applications III	4	MAC 142 MAC 142A		Summer Only
	MAC 241 AB	Jigs & Fixtures AB	2		MAC 143	Summer Only, must be taken before MAC241BB
	COM 110 Or COM 231	Intro. To Communications Or Public Speaking	3 3	DRE 097 or ENG 025		

4th Semester (Fall)

Table 5: Overview of courses recommended for 4th semester (16-17 credit hours)

✓	Course:	Course Name:	Credit Hour(s):	Prerequisite:	Corequisite :	Notes:
	MAC 124	CNC Milling	2			Fall only, must be taken before MAC224
	MAC 222	Advanced CNC Turning	2	MAC 122		Fall Only
	MAC 241 BB	Jig & Fixtures I BB	2	MAC 241 AB		Fall Only
	MAT 121 Or MAT 171	Algebra/Trigonometry I Or Precalculus Algebra	3 4	DMA 060 Or MAT 035 OR DMA 080 or MAT 035		
	MEC 231	Computer-Aided Manufacturing I	3	DFT 119		Fall Only, must be taken before MEC232, MAC248, MAC234
		Elective (see list below)	4	Course dependent		

5th Semester (Spring)

Table 6: Overview of recommended 5th semester courses (16 credit hours)

✓	Course:	Course Name:	Credit Hour(s):	Prerequisite:	Corequisite :	Notes:
	MAC 224	Advanced CNC Milling	2	MAC 124		Spring Only
	MEC 232	Computer-Aided Manufacturing II	3	MEC 231		Spring Only
	MAC248	Production Procedures	2	MAC122, MAC124, MAC231		Spring Only
		Social / Behavioral Elective	3	Course dependent		
		Elective	3	Course dependent		

Electives (choose up to 7 credit hours of electives)

Table 7: Overview of elective course options

✓	Course:	Course Name:	Credit Hour(s):	Prerequisite:	Corequisite :	Notes:
	ATR 280	Robotic Fundamentals	4			Fall only
	WBL 112	Work-Based Learning I	2	MAC 141, MAC 141A, & at least 9 credit hours		
	ATR 281	Automated Manufacturing	4	ATR 280		Spring Only
	MAC 234	Advanced Multi-Axis Mach	3	MAC 224 & MEC 231		Spring Only
	WLD 112	Basic Welding Processes	2			Spring Only
	WLD 151	Fabrication 1	4	DFT 119 OR DFT 151 & MAC 121		Fall Only
	WLD 251	Fabrication II	3	WLD 151		Spring Only

Total Credit Hours Needed for Graduation: 72-73

Questions? Contact:

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