

Curriculum Sequence Checklist
Computer-Integrated Machining – A50210

Course and Hour Requirements:

			<u>Prereq/Coreq</u>	<u>Class</u>	<u>Lab</u>	<u>Clin/Exp</u>	<u>Credit</u>
First Semester (Fall)							
ACA	122	College Transfer Success	(None)	0	2	0	1
BPR	111	Print Reading	(None)	1	2	0	2
ENG	110	Freshman Composition	(DRE 097)	3	0	0	3
OR							
ENG	111	Writing and Inquiry	(DRE 098/ACA 115 or ACA 122)	3	0	0	3
MAC	141	Machining Applications I	(None)	2	6	0	4
MAC	141A	Machining Appl I Lab	(Coreq MAC 141)	0	6	0	2
MAC	171	Measure/Material & Safety	(None)	0	2	0	1
MAC	121	Intro. to CNC	(None)	2	0	0	2
MAC	151	Machining Calculations	(None)	1	2	0	<u>2</u>
Semester Total							
17							
Second Semester (Spring)							
COM	110	Intro. to Communication	(RED 090)	3	0	0	3
OR							
COM	231	Public Speaking	(RED 090)	3	0	0	3
HUM/FA		Human./Fine Arts Core Elect.	(Course dependent)	3	0	0	3
ISC	112	Industrial Safety	(None)	2	0	0	2
MAC	142	Machining Applications II	(MAC 141)	2	6	0	4
			(MAC 141A)				
MAC	142A	Machining Appl II Lab	(Coreq MAC 142)	0	6	0	2
MAC	124	CNC Milling	(MAC 121)	1	3	0	2
MAC	152	Machining Calculations	(MAC 151)	1	2	0	<u>2</u>
Semester Total							
18							
Third Semester (Summer)							
DFT	119	Basic CAD	(None)	1	2	0	2
MAC	143	Machining Applications III	(MAC 142)	2	6	0	4
			(MAC 142A)				
MAC	241AB	Jigs & Fixtures AB	(Coreq MAC 143)	2	2	0	<u>2</u>
Semester Total							
8							
Fourth Semester (Fall)							
MAC	122	CNC Turning	(MAC 121)	1	3	0	2
MAC	224	Advanced CNC Milling	(MAC 124)	1	3	0	2
MAC	241BB	Jigs and Fixtures I BB	(MAC 241AB)	0	4	0	2
MAT	121	Algebra/Trigonometry I	(DMA 010, DMA 020, 2 DMA 030, DMA 040, DMA 0050, and DMA 060)	2	2	0	3
OR							
MAT	171	Precalculus Algebra	(DMA 010, DMA 020, 3 DMA 030, DMA 040,	3	2	0	<u>4</u>

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			DMA 0050, DMA 060 DMA 0070, and DMA 080 or MAT 121)				
MEC 231	Computer-Aided Manuf. I	(DFT 119)	1	4	0	3	
Elective	Choose 4 hours from list	(Course dependent)	0-3	0-6	0-20	<u>4</u>	
Semester Total							
16 or 17							

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Fifth Semester (Spring)						
MAC 226	CNC EDM Machining	(MAC 121 & MEC 231)	1	3	0	2
MEC 232	Computer-Aided Manuf. II	(MEC 231)	1	4	0	3
SOC/BEH	Social/Behav. Sci. Core Elect.	(Course dependent)	3	0	0	3
Elective	Choose 6 hours from list		0-3	0-9	0-20	<u>6</u>
Semester Total						
14						
Elective List						
ATR 280	Robotic Fundamentals	(None)	3	2	0	4
ATR 281	Automation Robotics	(ATR 280)	3	2	0	4
WBL 112	Work-Based Learning I	(MAC 141, MAC 141A & Completion of 9 hrs.	0	0	20	2
MAC 222	Advanced CNC Turning	(MAC 122 & MEC 231)	1	3	0	2
MAC 234	Adv. Multi-Axis Mach.	(MAC 224 <i>And</i> MEC 231)	2	3	0	3
MAC 247	Production Tooling	(MAC 141)	2	0	0	2
MAC 248	Production Procedures	(MAC 122) (MAC 124) (MEC 231)				
WLD 112	Basic Welding Processes	(None)	1	3	0	2
WLD 151	Fabrication I	(DFT 119 <i>Or</i> DFT 151 <i>And</i> MAC 121)	2	6	0	4
WLD 251	Fabrication II	(WLD 151)	1	6	0	3
Total Hours for Graduation						73 or 74

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