

**Curriculum Sequence Checklist
Computer-Integrated Machining – A50210**

Course and Hour Requirements:

First Semester (Fall)

Course:	Course Name:	Prereq/Coreq	Class	Lab	Clin/Exp	Credit
ACA 122	College Transfer Success	(NONE)	0	2		1
BPR 111	Print Reading	(NONE)	1	2		2
ENG 110	Freshman Composition	(DRE 097)	3	0		3
OR						
ENG 111	Writing and Inquiry	(DRE 098)	3	0		3
MAC 141	Machining Applications I	(NONE)	2	6		4
MAC 141A	Machining Appl I Lab	(Coreq MAC 141)	0	6		2
MAC 171	Measure/Material & Safety	(NONE)	0	2		1
MAC 121	Intro. to CNC	(NONE)	2	0		2
MAC 151	Machining Calculations	(NONE)	1	2		2
Semester Total						17

Second Semester (Spring)

Course:	Course Name:	Prereq/Coreq	Class	Lab	Clin/Exp	Credit
COM 110	Intro to Communication	(RED 090)	3	0		3
Or						
COM 231	Public Speaking	(RED 090)	3	0		3
Humanities /Fine Arts	Arts Core Elective	(Course Dependent)	3	0		3
ISC 112	Industrial Safety	(None)	2	0		2
MAC 142	Machining Applications II	(MAC 141) (MAC 141A)	2	6		4
MAC 142A	Machining Appl II Lab	(Coreq MAC 142)	0	6		2
MAC 124	CNC Milling	(MAC 121)	1	3		2
MAC 152	Machining Calculations	(MAC 151)	1	2		2
Semester Total						18

Third Semester (Summer)

Course:	Course Name:	Prereq/Coreq	Class	Lab	Clin/Exp	Credit
DFT 119	Basic CAD	(None)	1	2		2
MAC 143	Machining Applications III	(MAC 142) (MAC 142A)	2	6		4
MAC 241AB	Jigs & Fixtures AB	(Coreq MAC 143)	2	2		2
Semester Total						8

Fourth Semester (Fall)

Course:	Course Name:	Prereq/Coreq	Class	Lab	Clin/Exp	Credit
MAC 122	CNC Turning	(MAC 121)	1	3		2
MAC 224	Advanced CNC Milling	(MAC 124)	1	2		2
MAC 241BB	Jigs and Fixtures I BB	(MAC 241AB)	0	4		2

MAT 121	Algebra/Trigonometry I	(DMA 010,DMA 020, DMA 030,DMA 040,DMA 050 & DMA 060)	2	2		3
OR						
MAT 171	Precalculus Algebra	(DMA 010,DMA 020, DMA 030,DMA 040,DMA 050 & DMA 060,DMA 070,DMA 080 or MAT 121)	3	2		4
MEC 231	Computer-Aided Manuf. I	(DFT 119)	1	4		3
Elective	Choose 4 hours from list	(Course dependent)	0-3	0-6	0-20	4
Semester Total						16 or 17

Fifth Semester (Spring)

Course:	Course Name:	Prereq/Coreq	Class	Lab	Clin/Exp	Credit
MAC 226	CNC EDM Machining	(MAC 121 & MEC 231)	1	3		2
MEC 232	Computer-Aided Manuf. II	(MEC 231)	1	4		3
Social/Behavioral Science	Core Elective	(Course Dependant)	3	0		3
Elective	Choose 6 hours from list (See list at Bottom)	(Course Dependant)	0-3	0-9	0-20	6
Semester Total						14

Elective List

Course:	Course Name:	Prereq/Coreq	Class	Lab	Clin/Exp	Credit
ATR 280	Robotic Fundamentals	(None)	3	2		4
WBL 112	Work-Based Learning I	(MAC 141,MAC 141A & Completion of 9 hrs)	0	0	20	2
ATR 281	Automated Manufacturing	(ATR 280)	3	2		4
MAC 222	Advanced CNC Turning	MAC 122 & MEC 231)	1	3		2
MAC 234	Adv. Multi-Axis Mach	(MAC 224 And MEC 231)	2	3		3
MAC 247	Production Tooling	(MAC 141)	2	0		2
MAC 248	Production Procedures	(MAC 122)(MAC 124) (MEC 231)	2	0		2
WLD 112	Basic Welding Processes	(None)	1	3		2
WLD 151	Fabrication I	(DFT 119 Or DFT 151 And MAC 121)	2	6		4
WLD 251	Fabrication II	(WLD 151)	1	6		3
Semester Total						18 or 19

Total Hours for Graduation	73-74
-----------------------------------	--------------

Advisors: Jason Brannan
Office Bldg. K-106
252-451-8283
jbrannan820@nashcc.edu

Kristian Turley
Office Bldg K-106
252-451-8285
kbturnley998@nashcc.edu