

**Computerized Manufacturing and Machining
Associate in Applied Science
Degree**

Academic Plan Code 4805037019

Contact Information: Sam Arnone				
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Student Name		Student ID#		
Course	Hours	Grade	Semester	
GENERAL EDUCATION				
ENG 101 Writing I	3			
MAT 116 Technical Mathematics OR	3			
MAT 126 Technical Algebra and Trigonometry or Higher	(3)			
Heritage/Humanities	3			
Natural Sciences	3			
Social/Behavioral Sciences	3			
General Education SubTotal	15			
TECHNICAL CORE				
Digital Literacy*	0-3			
BRX 110 Basic Blueprint Reading for Machinist AND	2			
BRX 210 Blueprint Reading for Machinist OR	2			
BRX 112 Mechanical Blueprint Reading for Machinist	(4)			
CMM 110 Fundamentals of Machine Tools A AND	3			
CMM 112 Fundamentals of Machine Tools B OR	3			
CMM 114 Fundamentals of Machine Tools	(6)			
CMM 118 Metrology/Control Charts	2			
CMM 120 Applied Machining I AND	3			
CMM 122 Applied Machining II OR	3			
CMM 124 Applied Machining	(6)			
CMM130 Manual Programming AND	3			
CMM 132 CAD/CAM/CNC OR	3			
CMM 134 Manual Programming/CAD/CAM/CNC OR	(6)			
CMM 138 Intro to Programming & CNC Machines	(6)			
CMM 210 Industrial Machining I AND	3			
CMM 212 Industrial Machining II OR	3			
CMM 214 Industrial Machining	(6)			
CMM 220 Advanced Industrial Machining I AND	4			
CMM 222 Advanced Industrial Machining II OR	2			
CMM 224 Advanced Industrial Machining	(6)			
CMM 2301 Intro to Conversational Programming AND	3			
CMM 2302 Conversational Editing and Subroutines OR	3			
CMM 230 Conversational Programming OR	(6)			
CMM 234 CNC Machines and Coding Practices	(6)			
CMM 2401 Intro to 3-D Code Sequencing and Tool Path Production AND	3			
CMM 2402 Advanced 3-D Code Sequencing and Macro Systems OR	3			
CMM 240 Intro to 3-D Programming OR	(6)			
CMM 244 Advanced Programming/Setup Practices	(6)			
Technical Core Subtotal	48-51			
Electives (Co-op or Practicum)	1			
Elective Subtotal	1			
Total Credits	64-67			
Program Coordinator Notes: Digital Literacy must be demonstrated either by competency exam or by completing a digital literacy course.				

Revised Date: 1/30/2017

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KENTUCKY COMMUNITY & TECHNICAL COLLEGE SYSTEM

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First Semester		
Course No.	Course Title	Credit Hours
BRX 110	Basic Blueprint Reading for Machinist AND	2
BRX 210	Mechanical Blueprint Reading for Machinist OR	2
BRX 112	Blueprint Reading for Machinist	(4)
MAT 116	Technical Mathematics OR	3
MAT 126	Technical Algebra and Trigonometry or higher	(3)
CMM 110	Fundamentals of Machine Tools A AND	3
CMM 112	Fundamentals of Machine Tools B OR	3
CMM 114	Fundamentals of Machine Tools	(6)
CMM 118	Metrology/Control Charts	2
	Subtotal	15
Second Semester		
Course No.	Course Title	Credit Hours
ENG 101	Writing I	3
CMM 120	Applied Machining I AND	3
CMM 122	Applied Machining II OR	3
CMM124	Applied Machining	(6)
CMM 130	Manual Programming AND	3
CMM 132	CAD/CAM/CNC OR	3
CMM 134	Manual Programming/CAD/CAM/CNC OR	(6)
CMM 138	Intro To Programming & CNC Machines	(6)
	Digital Literacy*	0-3
	Subtotal	15-18
Third Semester		
Course No.	Course Title	Credit Hours
CMM 210	Industrial Machining I AND	3
CMM 212	Industrial Machining II OR	3
CMM 214	Industrial Machining	(6)
CMM 2301	Intro to Conversational Programming AND	3
CMM 2302	Conversational Editing and Subroutines OR	3
CMM 230	Conversational Programming OR	(6)
CMM 234	CNC Machines and Coding Practices	(6)
	Natural Sciences	3
	Elective (Co-op or Practicum)	1
	Subtotal	16

