

# COMPUTERIZED MANUFACTURING & MACHINING - AAS

**Offered at:** Bluegrass Community and Technical College, Elizabethtown Community and Technical College, Gateway Community and Technical College, Hopkinsville Community College, Jefferson Community and Technical College, Madisonville Community College, Maysville Community and Technical College, Owensboro Community and Technical College, Southcentral Kentucky Community and Technical College, West Kentucky Community and Technical College

**Program Plan Number:** 4805037019

Progression in the Computerized Manufacturing & Machining program is contingent upon the achievement of a grade of "C" or higher in each technical course.

Course	Title	Credits
<b>General Education</b>		
ENG 101	Writing I	3
MAT 116	Technical Mathematics	3
or MAT 126	Technical Algebra and Trigonometry	
Heritage/Humanities		3
Natural Sciences		3
Social/Behavior Sciences		3
Subtotal		15
Electives (Co-op or Practicum)		1
Subtotal		1
<b>Technical</b>		
Digital Literacy Course or demonstrated competency <sup>1</sup>		0-3
Select one of the following two options:		6
CMM 110 & CMM 112	Fundamentals of Machine Tools - A and Fundamentals of Machine Tools - B	
CMM 114	Fundamentals of Machine Tools	
CMM 118	Metrology/Control Charts	2
Select one of the following two options:		6
CMM 120 & CMM 122	Applied Machining I and Applied Machining II	
CMM 124	Applied Machining	
Select one of the following three options:		6
CMM 130 & CMM 132	Manual Programming and CAD/CAM/CNC	
CMM 134	Manual Programming CAD/CAM/CNC	
CMM 138	Intro. to Programming & CNC Machines	
Select one of the following two options:		6
CMM 210 & CMM 212	Industrial Machining I and Industrial Machining II	
CMM 214	Industrial Machining	
Select one of the following two options:		6
CMM 220 & CMM 222	Advanced Industrial Machining I and Advanced Industrial Machining II	
CMM 224	Advanced Industrial Machining	

Select one of the following three options: 6

CMM 2301 & CMM 2302	Introduction to Conversational Programming and Conversational Editing and Subroutines	
CMM 230	Conversational Programming	
CMM 234	CNC Machines & Coding Practices	

Select one of the following three options: 6

CMM 2401 & CMM 2402	Introduction to 3D Code Sequencing and Tool Path Production and Advanced 3D Code Sequencing and Macro Systems	
CMM 240	Introduction to 3-D Programming	
CMM 244	Advance Programming/Setup Practices	

Select one of the following two options: 4

BRX 110 & BRX 210	Basic Blueprint Reading for Machinist and Mechanical Blueprint Reading	
BRX 112	Blueprint Reading for Machinist	
Subtotal		48-51

**Total Credits 64-67**

<sup>1</sup> Digital literacy must be demonstrated either by competency exam or by completing a computer/digital literacy course.