# Computerized Manufacturing & Machining Maysville Community & Technical College Machining

## **Computerized Manufacturing &**

## **Associate of Applied Science Degree**

Program Coordinator: Kenneth Barnett

Contact Information: 606-783-1538 ext. 66336 Room B 210

kenneth.barnett@kctcs.edu

[Academic Plan Code: 4805037019 ; Academic Program Code:

CIP Code: 48050300 Prerequisite Information:

General Education & Support Classes	Credit Hours	Semeste r Taken
ENG101 Writing I	3	
Choose One: MAT116 Technical Mathematics OR MAT126 Technical Algebra and Trigonometry Or Higher	3 3	
Heritage/Humanities	3	
Science	3	
Social Interaction	3	
Subtotal Credits	15	
Electives(General Education or Technical	1	

## Notes:

- 1. Additional electives can lead to AAS degree in GOTS- -see check sheet.
- 2. Required minimum ACT or

COMPASS scores

	Math	Reading	Writing
ACT			
COMPASS	42	74	49

See COMPASS Placement Scores in Master Advising Quick Guide for placement into developmental courses.

Core Requirements	Credit Hours	Semester Taken
Taken upon program admission	Hours	Taken
CMM110 Fundamentals of Machine Tool A And	3	
CMM112 Fundamentals of Machine Tool B	4	
CMM114 Fundamentals of Machine Tool*	(7)	
CMM118 Metrology/Control Charts*	2	
CMM120 Applied Machining I AND CMM122 Applied Machining II	3	
OR CMM124 Applied Machining*	(6)	
CMM130 Manual Programming AND CMM132CAD / CAM / CNC OR	3 3	
CMM134 Manual Programming CAD/CAD/CNC*	(6)	
OR CMM138 Intro to Programming & CNC Machines	(6)	
TT210 Industrial Machining I <i>AND</i> CMM212 Industrial Machining II <b>OR</b> CMM214 Industrial Machining*	3 3 (6)	
J .	, ,	
Computer Literacy	0-3*	

Core Requirements cont'd	Credit Hours	Semester Taken
CMM220 Advanced Industrial Machining I And CMM222 Advanced Industrial Machining II	4	
OR	2	
CMM224 Advanced Industrial Machining	(6)	
CMM2301 Intro to Conversational Programming <b>AND</b>	3	
CMM2302 Conversational Editing and Subroutines OR	3	
CMM230 Conversational Programming*	(6)	
CMM2401 Intro to 3D Sequencing & Tool Path Production <b>AND</b>	3	
CMM2402 Advanced 3D Code Sequencing &Macro Systems	3	
CMM240 Introduction to 3-D Programming* OR	(6)	
CMM244 Advanced Programming/Setup Practices	(-)	
BRX110 Basic Blueprint Reading for Machinist	(6)	
AND	2	
BRX210 Mechanical Blueprint Reading Or	2	
BRX112 Blueprint Reading for Machinist	(4)	
Subtotal Credits Total Credits	49-52 65-68	

<sup>\*</sup>Computer literacy must be demonstrated either by competency exam or by completing a computer literacy course.

## **Computerized Manufacturing & Machining** Maysville Community & Technical College

Non-selective **CNC Machinist Diploma** 

**Program Coordinator: Kenneth Barnett** 

**Contact Information:** 606-783-1538 ext. 66336 Room B 210

Kennth.barnett@kctcs.edu

**Academic Program Code:** [Academic Plan Code: 4805034069 ]

CIP Code: 48050300 **Prerequisite Information:** 

General Education & Support Classes	Credit Hours	Semester Taken
Writing/Accessing Information OR		
Oral Communication OR		
Humanities OR		
Heritage	3	
Choose One:		
MAT116 Technical Mathematics <b>OR</b>	3	
MAT126 Technical Algebra and Trigonometry	(3)	
Or Higher		
Subtotal	6	
Electives	1	
Subtotal Credits	7	

on & Support Classes	Credit Hours	Semester Taken
ormation <b>OR</b> <b>OR</b>		
	3	
lathematics <b>OR</b> Igebra and Trigonometry	3 (3)	
	6	
	1	

Core Requirements	Credit	Semester
_	Hours	Taken
Taken upon program admission		
CMM110 Fundamentals of Machine Tool	3	
A And	_	
CMM112 Fundamentals of Machine Tool	4	
В	( <del>-</del> )	
OR CANALLE IN THE TENT	(7)	
CMM114 Fundamentals of Machine Tool		
CMM118 Metrology/Control Charts	2	
CMM120 Applied Machining I AND	3	
CMM122 Applied Machining II	3	
OR		
CMM124 Applied Machining	(6)	
CMM130 Manual Programming AND	3	
CMM132CAD / CAM / CNC OR	3	
CMM134 Manual Programming CAD/CAD/CNC OR	(6)	
CMM138 Intro to Program & CNC Machines	(6)	
CMM210 Industrial Machining I AND	3	
CMM212 Industrial Machining II	3	
OR	3	
CMM214 Industrial Machining	(6)	
CMM220 Advanced Industrial Mach I	4	
AND	2	
CMM222Advanced Industrial Mach II	2	
Or	(6)	
CMM224 Advanced Industrial Machining	(0)	
CMM2301 Intro to Conversational	3	
Programming <b>AND</b>	J	
CMM2302 Conversational Editing and	3	
Subroutines	3	
OR		
CMM230 Conversational Programming	(6)	
Civilvi230 Conversational Frogramming	(0)	

#### Notes:

- Additional electives can lead to AAS degree in GOTS--see check sheet.
- Required minimum ACT or COMPASS scores

	Math	Reading	Writing
ACT			
COMPASS	42	74	49

See COMPASS Placement Scores in Master Advising Quick Guide for placement into developmental courses.

Core Requirements cont'd	Credit Hours	Semester Taken
CMM2401 Intro to 3D Sequencing & Tool Path Production <b>AND</b>	3	
CMM2402 Advanced 3D Code Sequencing &Macro Systems OR	3	
CMM240 Introduction to 3-D Programming OR CMM244 Advanced Program/Setup Practices	(6) (6)	
BRX110 Basic Blueprint Reading for Machinist	2	
BRX210 Mechanical Blueprint Reading Or BRX112 Blueprint Reading for Machinist	2 (4)	
Computer Literacy	0-3*	
Subtotal Credits Total Credits	49-52 56-59	

<sup>\*</sup>Computer literacy must be demonstrated either by competency exam or by completing a computer literacy course.

# **Computerized Manufacturing & Machining**

selective

**Maysville Community & Technical College** 

**Machinist Diploma** 

Room B 210

**Program Coordinator:** 

**Kenneth Barnett** 

Contact Information:

606-783-1538 ext. 66336

Kenneth.barnett@kctcs.edu

[Academic Plan Code: 4805033079

**Academic Program Code:** 

ode:

CIP Code: 48050300 Prerequisite Information:

General Education & Support Classes	Credit Hours	Semester Taken
Writing/Accessing Information OR		
Oral Communication OR		
Humanities OR		
Heritage	3	
Choose One:		
MAT116 Technical Mathematics OR	3	
MAT126 Technical Algebra and	(3)	
Trigonometry Or Higher		
Subtotal	6	
Electives	1	
Subtotal Credits	7	

#### Notes:

- Additional electives can lead to AAS degree in GOTS- -see check sheet.
- 2. Required minimum ACT or COMPASS scores

Core Requirements cont'd

	Math	Reading	Writing
ACT			
COMPASS	42	74	49

See COMPASS Placement Scores in Master Advising Quick Guide for placement into developmental courses.

Non-

Credit Semester

Core Requirements	Credit	Semester
Taken upon program admission	Hours	Taken
CMM110 Fundamentals of Machine Tool	3	
A And		
CMM112 Fundamentals of Machine Tool	4	
В		
OR	(7)	
CMM114 Fundamentals of Machine Tool		
CMM118 Metrology/Control Charts	3	
CMM120 Applied Machining I AND		
CMM122 Applied Machining II	3	
OR		
CMM124 Applied Machining	(6)	
CMM130 Manual Programming	3	
Or		
CMM134 Manual Programming	(6)	
CAD/CAD/CNC OR		
CMM138 Intro to Programming & CNC	(6)	
Machines		
CMM210 Industrial Machining I AND	3	
CMM212 Industrial Machining II	3	
OR		
CMM214 Industrial Machining	(6)	
CMM220 Advanced Industrial Mach I	4	
AND	2	
CMM222Advanced Industrial Mach II		
Or	(6)	
CMM224 Advanced Industrial Machining		

Core Requirements cont a	Hours	Taken		
BRX110 Basic Blueprint Reading for Machinist <b>AND</b>	ling for 2			
BRX210 Mechanical Blueprint Reading Or	2			
BRX112 Blueprint Reading for Machinist	(4)			
Computer Literacy	0-3*			
Subtotal Credits Total Credits	34-40 41-47			

<sup>\*</sup>Computer literacy must be demonstrated either by competency exam or by completing a computer literacy course.

Computerized Manufacturing & Machining

Maysville Community & Technical College

Program Coordinator: Kenneth Barnett

Contact Information: 606-783-1538 Ext: 66336 Office: B210 Email: kenneth.barnett@kctcs.edu

Academic Program Code: 48050300

Certificates

**Open Admissions** 

Exploratory Machining I Certificate: Academic Plan Code: 480503099

Certificate Requirements	Credit	Semester
•	Hours	Taken
CMM110 Fundamentals of Machine Tool A AND	3	
CMM112 Fundamentals of Machine Tool B AND	4	
Electives (Technical or Gen Ed) OR	5	
CMM114 Fundamentals of Machine Tool OR	(7)	
Electives (Technical or Gen Ed) OR	5	
CMM130 Manual Programming AND	(3)	
CMM132 CAD/CAM/CNC OR	(3)	
Electives (Technical or Gen Ed) OR	6	
CMM134 Manual Programming/CAD/CAM/CNC OR	(6)	
Electives (Technical or Gen Ed) OR	6	
CMM138 Intro to Programming & CNC Machines OR	(6)	
Electives (Technical or Gen Ed) OR	6	
Total Credits		
	12	

Machine Tool Operator I Certificate: Academic Plan Code: 4805033109

Certificate Requirements	Credit	Semester
•	Hours	Taken
CMM110 Fundamentals of Machine Tool A AND	3	
CMM112 Fundamentals of Machine Tool B <b>OR</b>	4	
CMM114 Fundamentals of Machine Tool	(7)	
CMM130 Manual Programming OR	3	
CMM134 Manual Programming CAD/CAM/CNC	(6)	
CMM138 Intro to Programming & CNC Machines OR	(6)	
BRX110 Basic Blueprint Reading for Machinist OR	2	
·	2	
BRX112 Blueprint Reading for Machinist	4	
MAT116 Technical Mathematics	3	
Total Credits	15-20	

Machine Tool Operator II Certificate: Academic Plan Code: 480503119

Certificate Requirements	Credit	Semester
	Hours	Taken
CMM110 Fundamentals of Machine Tool A AND	3	
CMM112 Fundamentals of Machine Tool B <b>OR</b>	4	
CMM114 Fundamentals of Machine Tool	(7)	
CMM118 Metrology/Control Charts	2	
CMM120 Applied Machining I AND		
CMM122 Applied Machining II OR	3	
CMM124 Applied Machining	(6)	
CMM130 Manual Programming OR	3	
CMM134 Manual Programming CAD/CAM/CNC	(6)	
CMM138 Intro to Programming & CNC Machines OR	(6)	
BRX110 Basic Blueprint Reading for Machinist	2	
BRX112 Blueprint Reading for Machinist	4	
Computer Literacy	2-3	
MAT116 Technical Mathematics OR	3	
MAT126 Technical Algebra AND Trigonometry or Higher	(3)	
TOTAL Credits	23-31	

### Notes:

- 1. Additional electives can lead to AAS degree in GOTS
- 2. Required minimum ACT or COMPASS scores
- 3. See COMPASS Placement Scores in Master Advising Quick Guide for placement into developmental courses.
- 4. If you change from a certificate to a diploma or a degree program, additional reading and writing requirements must be met.

COMPASS	ACT	
42		Math:
74		Reading:
49		Writing:
49		Writing: