Computerized Manufacturing & Machining
Maysville Community & Technical College

Computerized Manufacturing & Machining

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

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

***Computer literacy must be demonstrated either by competency exam or by completing a computer literacy course.**

Computerized Manufacturing & Machining — Non-selective
Maysville Community & Technical College — CNC Machinist Diploma

Program Coordinator: **Kenneth Barnett**
Contact Information: 606-783-1538 ext. 66336 Room B 210
Kennth.barnett@kctcs.edu

[Academic Plan Code: 4805034069 ; Academic Program Code:]
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** MAT126 Technical Algebra and Trigonometry Or Higher	3 (3)	
Subtotal	6	
Electives	1	
Subtotal Credits	**7**	

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 *Taken upon program admission*	Credit Hours	Semester Taken
CMM110 Fundamentals of Machine Tool A ***And*** CMM112 Fundamentals of Machine Tool B **OR** CMM114 Fundamentals of Machine Tool	3 4 (7)	
CMM118 Metrology/Control Charts	2	
CMM120 Applied Machining I *AND* CMM122 Applied Machining II **OR** CMM124 Applied Machining	3 3 (6)	
CMM130 Manual Programming ***AND*** CMM132CAD / CAM / CNC **OR** CMM134 Manual Programming CAD/CAD/CNC **OR** CMM138 Intro to Program & CNC Machines	3 3 (6) (6)	
CMM210 Industrial Machining I ***AND*** CMM212 Industrial Machining II **OR** CMM214 Industrial Machining	3 3 (6)	
CMM220 Advanced Industrial Mach I ***AND*** CMM222Advanced Industrial Mach II **Or** CMM224 Advanced Industrial Machining	4 2 (6)	
CMM2301 Intro to Conversational Programming ***AND*** CMM2302 Conversational Editing and Subroutines **OR** CMM230 Conversational Programming	3 3 (6)	

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

***Computer literacy must be demonstrated either by competency exam or by completing a computer literacy course.**

Computerized Manufacturing & Machining Non-selective

Maysville Community & Technical College Machinist Diploma

Program Coordinator: **Kenneth Barnett**

Contact Information: 606-783-1538 ext. 66336 Room B 210
Kenneth.barnett@kctcs.edu

[Academic Plan Code: 4805033079 ; Academic Program Code:]

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 MAT126 Technical Algebra and Trigonometry Or Higher	3 (3)	
Subtotal	6	
Electives	1	
Subtotal Credits	**7**	

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

Core Requirements cont'd	Credit Hours	Semester Taken
BRX110 Basic Blueprint Reading for Machinist **AND** BRX210 Mechanical Blueprint Reading Or BRX112 Blueprint Reading for Machinist	2 2 (4)	
Computer Literacy	0-3*	
Subtotal Credits **Total Credits**	**34-40** **41-47**	

***Computer literacy must be demonstrated either by competency exam or by completing a computer literacy course.**

Computerized Manufacturing & Machining **Open Admissions**
Maysville Community & Technical College **Certificates**
Program Coordinator: **Kenneth Barnett**
Contact Information: 606-783-1538 **Ext:** 66336 **Office:** B210 **Email**: kenneth.barnett@kctcs.edu
Academic Program Code: 48050300

Exploratory Machining I Certificate: Academic Plan Code: 480503099

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

Machine Tool Operator I Certificate: Academic Plan Code: 4805033109

Certificate Requirements	**Credit Hours**	**Semester Taken**
CMM110 Fundamentals of Machine Tool A **AND**	3	
CMM112 Fundamentals of Machine Tool B **OR**	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 Hours**	**Semester Taken**
CMM110 Fundamentals of Machine Tool A **AND**	3	
CMM112 Fundamentals of Machine Tool B **OR**	4	
CMM114 Fundamentals of Machine Tool	(7)	
CMM118 Metrology/Control Charts	2	
CMM120 Applied Machining I AND	3	
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.

	ACT	COMPASS
Math:		42
Reading:		74
Writing:		49