

# PRECISION MACHINING TECHNOLOGY

Associate in Applied Science • Certificate



**The Associate in Applied Science in Precision Machining Technology offers a broad training experience that prepares individuals for employment in the precision manufacturing industry.**

Students learn to:

- Operate a variety of conventional machine tools
- Operate computer numerical control (CNC) machines using Mastercam software to program CNC equipment
- Read and analyze engineering drawings
- Use precision measuring and inspection instruments

**Graduates may pursue careers as:**

- **Machinists**
- **CNC Machinists**
- **Tool and Die Makers**
- **Process Quality Control Technicians**
- **Quality Control Inspectors**
- **Machine Assemblers**
- **Machine Tool Designers**
- **CNC Programmers**
- **Field Service Representatives**

Choose the Associate in Applied Science or the one-year certificate. Graduates of the Precision Machining Technology Associate in Applied Science program also have the opportunity to earn an Advanced Certificate.

## Degree Requirements

Semester I		Credit Hours
ENG ___*	Select one of the following:	3
	ENG 101 College Writing	
	ENG 105 College Writing Seminar	(4)
MAT 104*	Technical Mathematics	3
PMT 103	Print Reading and Sketching	3
PMT 111	Introduction to Lathes	2
PMT 112	Introduction to Manual Milling	2
PMT 118	Introduction to CNC Milling	2
PMT 119	Introduction to CNC Lathes	2

Semester II		Credit Hours
ENG 201	Technical Writing	3
MAT ___*	Level 100 or higher	3
PMT 121	Introduction to Threading Processes	2
PMT 122	Work Holding Methods for Milling	2
PMT 124	Applied Computer Numerical Control	2
PMT 125	CNC Turning Methods	2
OHS 102	OHS for General Industry	1

Semester III		Credit Hours
PMT 209	Geometric Dimensioning and Tolerancing	3
PMT 240	2-D Cam Programming	2
PMT 211	Advanced Threading Processes	2
PMT 212	Circular CNC Milling Processes	2
PMT 214	Advanced Computer Numerical Control	2
PMT 228	Metallurgy	1
___	Elective: Humanities/Social Science	3

Semester IV		Credit Hours
PMT 217	Introduction to Toolmaking	2
PMT 221	Advanced CNC Turning Processes	2
PMT 229	Advanced CNC Part II	2
PMT 230	Introduction to CMM's	2
___	Elective: Humanities/Social Science	3
___	Elective: Humanities/Social Science	3

**Total Credit Hour Requirements 61-62**

\*Placement determined by assessment test scores and/or prior college coursework

## Certificate Requirements

Semester I		Credit Hours
MAT 104*	Technical Mathematics	3
PMT 103	Print Reading and Sketching	3
PMT 111	Introduction to Lathes	2
PMT 112	Introduction to Manual Milling	2
PMT 118	Introduction to CNC Milling	2
PMT 119	Introduction to CNC Turning	2

Semester II		Credit Hours
___	Select one of the following:	3
	BCA 120 Introduction to Computer Applications	
	PMT 240 Introduction to MasterCam	(2)
ENG ___*	Select one of the following:	3
	ENG 101 College Writing	
	ENG 105 College Writing Seminar	(4)
PMT 121	Introduction to Threading Processes	2
PMT 122	Work Holding Methods for Milling	2
PMT 124	Applied Computer Numerical Control	2
PMT 125	CNC Turning Methods	2
OHS 102	OHS for General Industry	1

**Total Credit Hour Requirements 28-30**

### Office of Admissions

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[www.cmcc.edu](http://www.cmcc.edu)

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