

**Computerized Numerical Control (CNC)
 Certificate
 M.A.P.⁺**

****Students must complete the Machine Tool Technology AAS technical (Area V) requirements or have extensive experience as a machinist prior to enrolling in Computerized Numerical Control.***

Semester	Suggested Courses	Semester(s) Offered*	Credit Hrs.
Semester 1 18 credit hours	CNC 101 Introduction to CNC	Fall	6
	CNC 222 CNC Graphics: Turning	Fall	3
	CNC 215 Quality Control and Assurance	Fall	3
	CNC 217 Tooling and Machining Data	Fall	3
	ENG 101 English Composition I	Fall, Spring, Summer	3
Semester 2 15 credit hours	CNC 103 Manual Programming	Spring	3
	CNC 223 CNC Graphics Programming: Milling	Spring	3
	CNC 104 CNC Milling Operations	Spring	6
	MTH 100 <i>or</i> Intermediate College Algebra <i>or</i> MTH 116 Mathematical Applications	Fall, Spring, Summer	3
Semester 3 15 credit hours CNC AAS Degree Achieved	CNC 102 CNC Turning Operations	Summer	6
	CNC 240 CNC Milling and Lathe Lab	Summer	3
	CNC 216 Quality Control II	Summer	3
	SPH 106 <i>or</i> Fundamentals of Oral Communication <i>or</i> SPH 107 Fundamentals of Public Speaking	Fall, Spring, Summer	3

*Course(s) may be offered in additional semesters but are only assured to run in semester(s) indicated. It is ***highly*** recommended for course(s) to be completed in the semester(s) indicated.

Part-time and full-time students desiring to begin the CNC program of study during a spring or summer semester should consult with an academic advisor to establish an alternate degree completion pathway.