

**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 18 credit hours | CNC 103 Manual Programming | Spring | 6 |
| | 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 17 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 |
| | ORI 101 Orientation to College | Fall, Spring, Summer | 2 |
| | SPH 106 <i>or</i> Fundamentals of Oral Communication <i>or</i> SPH 107 Fundamentals of Public Speaking | Fall, Spring, Summer | 3 |
| Total Hours | | | 53 |

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

Part-time students 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.