

**Computerized Numerical Control (CNC)**  
**Associate in Applied Science**  
**M.A.P.<sup>+</sup>**

***\*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.
<b>Semester 1</b> 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
	Area IV History or Social/Behavioral Science <sup>**</sup>	Fall, Spring, Summer	3
<b>Semester 2</b> 18-19 credit hours	CNC 103 Manual Programming	Spring	6
	CNC 223 CNC Graphics Programming: Milling	Spring	3
	CNC 104 CNC Milling Operations	Spring	6
	Area III Math or Natural Science Elective <sup>**</sup>	Fall, Spring, Summer	3-4
<b>Semester 3</b> 15 credit hours <b>CNC AAS Degree Achieved</b>	CNC 102 CNC Turning Operations	Summer	6
	CNC 240 CNC Milling and Lathe Lab	Summer	3
	CNC 216 Quality Control II	Summer	3
	Area II Fine Art or Humanities <sup>**</sup>	Fall, Spring, Summer	3
<b>Total Hours</b>			<b>51-52</b>

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

<sup>\*\*</sup>Students who have not completed the general education requirements of the Machine Tool Technology Certificate prior to CNC admittance should complete the following courses in lieu of the Area II-IV courses listed above: ENG 101 (fall), MTH100 or MTH 116 (spring), and SPH 106 or SPH 107 (summer).

**Area II – Area IV Options**

Area II	
<b><u>Humanities and Fine Arts</u></b>	
Art 100	Art Appreciation
ART 203	Art History I
ART 204	Art History II
ENG 251	American Literature I
ENG 252	American Literature II
ENG 261	English Literature I
ENG 262	English Literature II
ENG 271	World Literature I
ENG 272	World Literature II
HUM 298	Directed Studies in Humanities
MUS 101	Music Appreciation
PHL 206	Ethics and Society
REL 100	History of World Religions
REL 151	Survey of Old Testament
REL 152	Survey of New Testament
SPA 101	Introduction to Spanish I
SPA 102	Introduction to Spanish II
THR 120	Theatre Appreciation

Area III	
<b><u>Math or Natural Science</u></b>	
AST 220	Introduction to Astronomy
BIO 101 or	Introduction to Biology I or
BIO 103	Principles of Biology I
BIO 102 or	Introduction to Biology II or
BIO 104	Principles of Biology II
CHM 104 or	Introduction to Inorganic Chemistry or
CHM 111	College Chemistry I
CHM 105 or	Introduction to Organic Chemistry or
CHM 112	College Chemistry II
CHM 221	Organic Chemistry I
CHM 222	Organic Chemistry II
GEO 101	Principles of Physical Geography I
GEO 102	Principles of Physical Geography II
MTH 100	Intermediate College Algebra
MTH 110	Finite Mathematics
MTH 112	Precalculus Algebra
MTH 113	Precalculus Trigonometry
MTH 115	Precalculus Algebra & Trigonometry
MTH 120	Calculus and Its Applications
MTH 125	Calculus I
MTH 126	Calculus II
MTH 227	Calculus III
MTH 237	Linear Algebra
MTH 238	Applied Differential Equations I
MTH 265	Elementary Statistics
PHS 111	Physical Science I
PHS 112	Physical Science II
PHY 201	General Physics I -Trig Based
PHY 202	General Physics II-Trig Based
PHY 213	General Physics with Calculus I
PHY 214	General Physics with Calculus II

Area IV	
<b><u>History, Social, and Behavioral Sciences</u></b>	
ANT 200	Introduction to Anthropology
ANT 220	Cultural Anthropology
ECO 231	Principles of Macroeconomics
ECO 232	Principles of Microeconomics
GEO 100	World Regional Geography
HIS 101	Western Civilization I
HIS 102	Western Civilization II
HIS 201	United States History I
HIS 202	United States History II
POL 200	Introduction to Political Science
POL 211	American National Government
PSY 200	General Psychology
PSY 210	Human Growth & Development
SOC 200	Introduction to Sociology
SOC 210	Social Problems