

CNC Machining and Tool-Making Technology AAS Degree Courses

Award	Associate of Applied Science (AAS)
Credits	80
Program Start	Fall
Time to Complete	2 years

2023–2024 Suggested Sequence of Study



The following suggested sequence of study is for new full-time students starting the program Fall 2023. Part-time students should visit with a program advisor for a modified sequence of study.



When registering for classes refer to Self-Service > Student Planning to view your specific program requirements, your progress, and ensure proper registration.



Courses are subject to change.

◆ General education course.

▣ Non-transfer general education course.

► Course has a prerequisite and/or corequisite.

○ Course meets 100% online.

E Course meets face-to-face after 5:00pm.

8WK1 Course meets the first 8 weeks of the term.

8WK2 Course meets the second 8 weeks of the term.

Term 1

MFG-157	Introduction to CNC Programming I	8WK1	2
MFG-158	Introduction to CNC Programming II ►	8WK2	2
MAT-772	Applied Math -OR- Math Elective		3 3
MFG-122	Machine Trade Printreading I		3
MFG-211	Basic Machine Theory		2
MFG-222	Machine Operations I ►		4
MFG-302	CNC Fundamentals		3

Total Credits 19

Term 2

COM-781 Written Communication in the Workplace ► -OR-	O E 3 ♦
ENG-105 Composition I ►	O E 3 ♦
MFG-142 Geometric Dimensioning Tolerancing ►	3
MFG-214 Advanced Machine Theory	2
MFG-228 Machine Operations II	4
MFG-309 CNC Programming Theory II ►	4
MFG-335 CNC Operations ►	3
Total Credits 19	

Term 3 — Summer

MFG-320 Computer Aided Machining	3
MFG-364 Hydraulic Jigs and Fixtures ►	4
MFG-380 EDM Fundamentals	2
Total Credits 9	

Term 4

MFG-408 Basic Diemaking ►	8
MFG-410 CAD Die Design	3
SPC-101 Fundamentals of Oral Communication	3
WEL-402 Tool Steel Welding and Heat Treatment	2
Total Credits 16	

Term 5

MFG-107 Introduction to 3D Modeling	3
MFG-431 Die Revision and Repair ►	5
MFG-452 Moldmaking ►	3
MFG-525 CMM Inspection and SPC ►	3
PSY-102 Human and Work Relations -OR-	O E 3 ♦
PSY-111 Introduction to Psychology -OR-	O E 3 ♦
SOC-110 Introduction to Sociology	O 3 ♦
Total Credits 17	

Math Electives

MAT-110 Math for Liberal Arts ►	3
MAT-121 College Algebra ►	4
MAT-128 Precalculus ►	4
MAT-134 Trigonometry and Analytic Geometry ►	3
MAT-156 Statistics ►	3
MAT-210 Calculus I ►	4
MAT-216 Calculus II ►	4
MAT-219 Calculus III ►	4