

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

2024–2025 Suggested Sequence of Study

The following suggested sequence of study is for new full-time students starting the program Fall 2024. 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		3
	Math Elective		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