

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

2022–2023 Suggested Sequence of Study



The following suggested sequence of study is for new full-time students starting the program Fall 2022. 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 E	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