CNC Machining and Tool-Making Technology AAS Degree Courses

Award: Associate of Applied Science (AAS)
Required number of credits: 80
Program Start: Fall

2018–2019 Suggested Sequence of Study

The following suggested sequence of study is for new full-time students starting the program in the academic year listed.

When registering for classes refer to your Program Evaluation/Degree Audit to see your specific program requirements and ensure proper registration.

Courses are subject to change.

◆ General education course.
▣ Non-transfer general education course.
▶ Course has a prerequisite and/or corequisite.
O Course meets 100% online.
E Course meets face-to-face after 5:00pm.
◐ Course meets the first 8 weeks of the semester.
◒ Course meets the second 8 weeks of the semester.

Semester 1				
MAT-772	Applied Math -OR-		3	▣
MAT-110	Math for Liberal Arts ▶ -OR-	O E	3	◆
MAT-156	Statistics ▶ -OR-	O E	3	◆
	Math Electives		3	
MFG-122	Machine Trade Printreading I		3	
MFG-157	Introduction to CNC Programming I ◐		2	
MFG-158	Introduction to CNC Programming II ▶ ◒		2	
MFG-211	Basic Machine Theory		2	
MFG-222	Machine Operations I ▶		4	
MFG-302	CNC Fundamentals		3	
			Total Credits	**19**

Semester 2				
			Total Credits	**19**

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Semester 2			
COM-781	Written Communication in the Workplace ▶ -OR-	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	

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

Semester 4			
MFG-408	Basic Diemaking ▶	8	
MFG-410	CAD Die Design	3	
SPC-101	Fundamentals of Oral Communication	O E 3	◆
WEL-402	Tool Steel Welding and Heat Treatment	2	
		Total Credits 16	

Semester 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-	3	▣
PSY-111	Introduction to Psychology -OR-	O E 3	◆
SOC-110	Introduction to Sociology	O E 3	◆
		Total Credits 17	

Math Electives			
MAT-122	College Algebra ▶	5	◆
MAT-128	Precalculus ▶	4	◆
MAT-134	Trigonometry and Analytic Geometry ▶	3	◆
MAT-210	Calculus I ▶	4	◆
MAT-216	Calculus II ▶	4	◆

Math Electives	
MAT-219 Calculus III ▶	4