



Precision Machining and Manufacturing
Associate in Applied Science
Four Semester Pathway Academic Year 2025-2026

Semester 1	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
FIGS 100	Student Success Elective - Industrial Technology & Transportation Pathway				1	
MATH 130 OR MATH 140 AND MATH 146	Technical Mathematics College Algebra Introduction to Trigonometry		MATH 040	MATH 140	3-4	
AEDD 100	Print Reading		MATH 040		3	
MACH 115	Introduction to Precision Machining		MATH 040		7	
Semester 2						
ENGL 100	English Composition		ENGL 080		3	
MACH 165	Advanced Precision Machining		MACH 115	AEDD 170	7	
AEDD 170	Parametric Solid Modeling		MACH 115		3	
	Fine Arts or Humanities Elective	ENGL 110 Oral Communications	ENGL 080 or ENGL 101		3	
Semester 3						
MACH 215	Introduction to CNC Machining Practices		MACH 165		7	
	Physics Elective with Lab	PHYS 110 or *PHYS 150	See course prerequisites	See course corequisites	4	
	Social Science Elective	*HIST 170 or *POLS 110	ENGL 080 or ENGL 101		3	
AEDD 250	Mechanical Design		MACH 115	AEDD 170	3	
Semester 4						
MACH 265	Advanced CNC Machining and CAM Programming		MACH 215		7	
	Social Science Elective	*ECON 120 or* ECON 125	MATH 040	ENGL 100 or ENGL 101	3	
ENGL 115 OR ENGL 117	Introduction to Literature OR Introduction to Professional Writing		ENGL 100 or ENGL 101		3	
WELD 100	Introduction to Welding				3	
* = Transfer Recommendations				Total Credits	63-64	

[Advice on Choosing Electives](#)



Precision Machining and Manufacturing

General Education Requirements					
COURSE CODE	COURSE TITLE	PREREQUISITES	COREQUISITES	CREDITS	MET
ENGL 100	English Composition	ENGL 080		3	
ENGL 115 OR ENGL 117	Introduction to Literature OR Introduction to Professional Writing	ENGL 100 or ENGL 101		3	
FIGS 100	Student Success Elective - Industrial Technology & Transportation Pathway			1	
MATH 130 OR MATH 140 AND MATH 146	Technical Mathematics OR College Algebra AND Introduction to Trigonometry	MATH 040	MATH 140	3-4	
	Physics Elective with Lab			4	
	Fine Arts or Humanities Elective			3	
	Social Science Elective			6	

Major Required Courses					
COURSE CODE	COURSE TITLE	PREREQUISITES	COREQUISITES	CREDITS	MET
AEDD 100	Print Reading	MATH 040		3	
AEDD 170	Parametric Solid Modeling	MACH 115		3	
AEDD 250	Mechanical Design	MACH 115		3	
MACH 115	Introduction to Precision Machining	MATH 040		7	
MACH 165	Advanced Precision Machining Practices	MACH 115	AEDD 170	7	
MACH 215	Introduction to CNC Machining Practices	MACH 165		7	
MACH 265	Advanced CNC Machining and Programming Practices	MACH 215		7	
WELD 100	Introduction to Welding			3	