



Precision Machining and Manufacturing Associate in Applied Science Four Semester Pathway Academic Year 2021-2022

Semester 1	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
ENGL 100	English Composition		ENGL 090, ENGL 095		3	
FIGS 100	Student Success Elective				1	
MATH 130 OR MATH 140 AND MATH 146	Technical Mathematics College Algebra Introduction to Trigonometry		MATH 030 MATH 050 MATH 050	MATH 140	3 3 1	
MACH 115 OR MACH 101 AND MACH 102 AND MACH 103 AND	Introduction to Precision Machining Introduction to Manufacturing Precision Machining: Lathe Precision Machining: Mills/Grinding		MATH 030 MATH 030 MATH 030, MACH 101 MATH 030, MACH 101		7 1 3 3	
Semester 2						
ENGL 115	Introduction to Literature		ENGL 100 or ENGL 101		3	
MACH 165	Advanced Precision Machining		MACH 115 or MACH 105 & MACH 106	AEDD 170	7	
AEDD 170	Parametric Solid Modeling		MACH 115 or MACH 105 & MACH 106 ☐		3	
	Fine Arts or Humanities Elective	*ENGL 110 Oral Communications	ENGL 090, ENGL 095		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	See course prerequisites	See course corequisites	3	
AEDD 250	Mechanical Design		MACH 115 or MACH 105 & MACH 106	AEDD 170	3	
Semester 4						
MACH 265	Advanced CNC Machining and CAM Programming		MACH 215		7	
	Precision Machining Elective	MACH 275 Senior Internship OR AEDD 100 (with departmental approval)	See course prerequisites	See course corequisites	3	
	Social Science Elective	*ECON 120 or* ECON 125	See course prerequisites	See course corequisites	3	
WELD 100	Introduction to Welding				3	

* = Transfer Recommendations

Precision Machining and Manufacturing

General Education Requirements					
COURSE CODE	COURSE TITLE	PREREQUISITES	COREQUISITES	CREDITS	MET
ENGL 100	English Composition	ENGL 090, ENGL 095		3	
ENGL 115	Introduction to Literature	ENGL 100 or ENGL 101		3	
FIGS 100	Student Success Elective			1	
MATH 130 OR	Technical Mathematics	MATH 030		3	
MATH 140 AND	College Algebra	MATH 050		3	
MATH 146	Introduction to Trigonometry	MATH 050	MATH 140	1	
	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 170	Parametric Solid Modeling	MACH 105 & MACH 106 OR MACH 115		3	
AEDD 250	Mechanical Design	MACH 105 & MACH 106 OR MACH 115		3	
MACH 115 OR	Introduction to Precision Machining	MATH 030		7	
MACH 101 AND	Introduction to Manufacturing	MATH 030		1	
MACH 102 AND	Precision Machining: Lathe	MATH 030, MACH 101		3	
MACH 103 AND	Precision Machining: Mills/Grinding	MATH 030, MACH 101		3	
MACH 165	Advanced Precision Machining Practices	MACH 105 & MACH 106 OR 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	
	Precision Machining Elective			3	
WELD 100	Introduction to Welding			3	