



Precision Machining and Manufacturing

Associate in Applied Science

Four-Semester Pathway - Academic Year 2018-2019

Semester 1	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
FIGS-100	Freshman Interest Group				1	
MATH-130	Technical Mathematics		MATH-030		4	
ENGL-100	English Composition		ENGL-090, ENGL-095		3	
MACH-115	Introduction to Precision Machining		MATH-030		7	
Semester 2						
ENGL-115	Introduction to Literature		ENGL-100		3	
MACH-165	Advanced Precision Machining		MACH-115 or MACH-105 & MACH-106	AEDD-170	7	
AEDD-170	Parametric Modeling with Solidworks		MACH-115 or AEDD-100		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		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

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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		3	
FIGS-100	Freshman Interest Group Elective			1	
MATH-130	Technical Mathematics	MATH-030		3	
	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 Modeling with Solidworks	MACH-105 & MACH-106 OR MACH-115 OR AEDD-100		3	
AEDD-250	Mechanical Design	MACH-105 & MACH-106 OR MACH-115		3	
MACH-115	Introduction to Precision Machining	MATH-030		7	
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	