



Precision Machining and Manufacturing
 Associate in Applied Science
 Four-Semester Pathway - Academic Year 2019-2020

Semester 1	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
FIGS-100	Freshman Interest Group				1	
MATH-130 <i>OR</i>	Technical Mathematics		MATH-030		4	
MATH-140 <i>AND</i>	College Algebra		MATH-050		3	
MATH-146	Introduction to Trigonometry		MATH-050	MATH-140	1	
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

Precision Machining and Manufacturing

General Education Requirements

COURSE CODE	COURSE TITLE	PREREQUISITES	COREQUISITES	CREDITS
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 <i>OR</i>	Technical Mathematics	MATH-030		3
MATH-140 <i>AND</i>	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
AEDD-170	Parametric Modeling with Solidworks	MACH-105 & MACH-106 <i>OR</i> MACH-115 <i>OR</i> AEDD-100		3
AEDD-250	Mechanical Design	MACH-105 & MACH-106 <i>OR</i> MACH-115		3
MACH-115	Introduction to Precision Machining	MATH-030		7
MACH-165	Advanced Precision Machining Practices	MACH-105 & MACH-106 <i>OR</i> 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

