## TECHNICAL COLLEGE

## **PRECISION MACHINING TECHNOLOGY**

## Diploma, 42 Credit Hours, 12-Month Program

The Precision Machining Technology graduate will be able to set up and operate a variety of machine tools to produce precision metal parts, instruments, and tools. Machinists use machine tools, such as lathes, milling machines, and grinders, to produce precision metal parts. Although they may produce large quantities of one part, precision machinists often produce small batches or one-of-a-kind items. The parts that machinists make range from simple bolts of steel or brass to titanium bone screws for orthopedic implants. Hydraulic parts, anti-lock brakes and automobile pistons are other widely known products that machinists make.

Course	No.	Course Title	Credits		
		General Education Requirements			
CSC	105	MICROCOMPUTER SOFTWARE APPLICATIONS I	3		
ENGL	106	WORKPLACE COMMUNICATIONS I*			
MATH	100	ELEMENTARY ALGEBRA** or higher			
PSYC	103	HUMAN RELATIONS IN THE WORKPLACE			
Total		12			
		Technical Requirements			
MACH	110	MACHINE SHOP OPERATIONS	3		
MACH	113	TURNING THEORY AND OPERATIONS	3		
MACH	123	MILLING THEORY AND OPERATIONS	3		
MACH	125	MECHANICAL BLUEPRINT READING	3		
MACH	130	MATERIALS APPLICATIONS	3		
MACH	136	TURNING THEORY AND CNC OPERATIONS	3		
MACH	141	MILLING THEORY AND CNC OPERATIONS	3		
MACH	146	APPLIED COMPUTER AIDED DRAFTING FUNDAMENTALS	3		
MACH	199	INTERNSHIP	6		
		Total	30		

\*Prerequisite: Acceptable ACCUPLACER score or Basic Writing.

## Semester Breakdown Diploma

First		Second		
Semester (Fall Only)	CR	Semester (Spring Only)		
CSC 105 Microcomputer Software	3	ENGL 106 Workplace Communications I	3	
Applications I		MACH 130 Materials Applications	3	
MACH 110 Machine Shop Operations	3	MACH 136 Turning Theory and CNC	3	
MACH 113 Turning Theory and Operations	3	Operations		
MACH 123 Milling Theory and Operations	3	MACH 141 Milling Theory and CNC	3	
MACH 125 Mechanical Blueprint Reading	3	Operations		
MATH 100 Elementary Algebra or higher	3	MACH 146 Applied Computer Aided Drafting	3	
		Fundamentals		
		PSYC 103 Human Relations in the Workplace	3	
Total Credit Hours	18	<b>Total Credit Hours</b>	18	
Third				
Semester (Summer Only)	CR			
MACH 199 Internship	6			
-				
Tatal Cuadit Harris	(	2024-2025 Academic Catalog – 6/2024		
i otal Credit Hours	0			

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