

Precision Machining Technology CTE Program 48.0501

Engineering & Industrial Technology Pathway

This is a two-year program starting in Grade 11

CIP 48.0501	Grade 9	Grade 10	Grade 11	Grade 12
	Exploratory Courses	Introductory Courses	Career & Technical Education Courses	
Technical Courses Grades 11-12 6.0 credits 720 hours	Exploratory Precision Machining (.25)	Introduction to Precision Machining (.5)	Precision Machining Level 1 (3.0)	Precision Machining Level 2 (3.0)
Academic Courses				
English	English 9 Honors English 1	English 10 Honors English 2 Academic English 2	English 11 English 11 College Prep Honors English 3 (Pre-AP Lit)	Technical Communication ENL111 English Composition
Mathematics	Academic Algebra Geometry Honors	Academic Algebra 2 Algebra 2 Honors Academic Geometry	PC Honors AP Statistics Pre-Calculus	Pre-Calculus MATH 123/Intro to Stats or Math Elective
Science	Earth & Space Science Intro to Envio Science Honors Biology	Biology Chemistry	Physics	Science Elective
Social Studies	US History US History 1 19 th Century Honors	World History US History 2 20 th Century Honors	Civics & Government + Economics	Social Studies Elective
Required Courses	Comp. Applications (.5) Health 9 (.5) Physical Education (.5)	Physical Education (.5)	Personal Finance (.5) Physical Education (.5)	Physical Education (.5)
Electives	+2.25 credits	+3.0 credits	Not Available	+0.5 credits
Articulation Agreement Credit Opportunities			Advanced Placement Credits	Dual Enrollment Credits
Butler County Community College – Butler, PA (9.0) Delaware County Community College – Media, PA (10.0) Johnson College – Scranton, PA (9.0) Luzerne County Community College – Nanticoke, PA (12.0) Pennsylvania College of Technology – Williamsport, PA (6.0) Reading Area Community College – Reading, PA (12.0) Thaddeus Stevens College of Technology – Lancaster, PA (11.0) Westmoreland County Community College – Youngwood, PA (12.0)			AP English AP Calculus & Statistics AP Chemistry & Envi Sci AP US & European History AP Seminar & Research	MTH123 ENG111 CHM100
Scheduling Notes:  			Work-Based Learning Programs	
				Cooperative Education (4.0)
			CTE Experience/Internship (4.0)	CTE Experience/Internship (4.0)
			CTE Industry Credentials & Certifications	
			OSHA 10-Hour General Industry	NIMS Machining Level I
			Grade 11	Grade 12