Engineering & Industrial Technology: **Precision Machining Technology CTE Program 48.0501**

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 or Honors 1	English 10 or Honors 2	English 11 or College Prep or Honors 3	Fantasy Fiction or ENG 111/Biography or AP English
Mathematics	Algebra, Academic Algebra 1 or Geometry Honors	Algebra 2, Academic Geometry or Honors Algebra 2	Trig/Pre-Calc Honors or Statistics or SAT Math	Unified Algebra & Trig or Financial Algebra for Business Application or Calculus
Science	Environmental Science 1 & Earth & Space or Biology 9	Biology or Chemistry	Physics	Chemistry or Environmental & Astronomy
Social Studies	US History	World History	American Government & Social Studies Elective (0.5)	Social Studies Elective (1.0)
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 (9.0) Delaware County Community College (10.0) Johnson College (9.0) Luzerne County Community College (12.0) Pennsylvania College of Technology (6.0) Reading Area Community College (12.0) Thaddeus Stevens College of Technology (11.0) Westmoreland County Community College (12.0)			AP Calculus AP Chemistry AP European History AP English AP Environmental Science AP Statistics AP US History	MATH123 ENGL111 CHEM100
Scheduling Notes:			Work-Based Learning Programs	
				Cooperative Education (4.0)
Career & Technical Education SkillsUSA			CTE Experience/Internship (4.0)	CTE Experience/Internship (4.0)
			-	tials & Certifications
			OSHA 10-Hour General Industry Grade 11	NIMS Machining Level I Grade 12