



PROGRAM OF STUDY PATHWAY TEMPLATES 2011–2012
 – COMPUTER AIDED MANUFACTURING – PRECISION MACHINING *

COLLEGE: **Sinclair Community College**

CAREER FIELD: **Manufacturing Technologies**

HIGH SCHOOL(S): **Bellbrook, Centerville, Ponitz CTC, Greene CCC,**

PATHWAY: **Precision Machining**

Kettering Fairmont, Stebbins, Butler Tech,

PROGRAM: **Computer Aided Manufacturing - Precision Machining**

Miami Valley CTC, Warren CCC, Wayne

103 Credit Hours - Associate of Applied Science



HIGH SCHOOL	Freshman	English I (1)	Integrated Algebra & Geometry or Algebra I (1)	Physical Science (1)	Social Studies (1)	Health (.5) P E (.5)	Career Exploration	Elective (1)
	Sophomore	English II (1)	Geometry or Algebra II (1)	Biology (1)	American History (1)	Intro to Engineering Design (1)	P E (.5)	Elective (1)
	Junior	English III (1)	Algebra II / Adv Algebra II & Trigonometry (1)	Physics I (1)	American Govt (.5) Social Studies Elective (.5)	College Tech Prep Engineering Technology (1)	College Tech Prep Engineering Technology (1)	Tech: Word, PowerPoint, & Excel (.5) Art (.5)
	Senior	English IV (1)	Pre-College Math (1)	Chemistry (1)	Elective (1)	College Tech Prep Engineering Technology (1)	College Tech Prep Engineering Technology (1)	Elective (1)

Take Accuplacer (reading, math, and writing). Visit Sinclair academic advising. Earn high school diploma. Complete pathway as designed.

COLLEGE	1st Quarter	INT 141 (3) Applied Shop Mathematics I	INT 161 (8) Machine Operations Lab I	INT 107 (4) Principles of Manufacturing	■ INT 109 (4) Fund of Tool & Manuf Processes			
	2nd Quarter	INT 142 (3) Applied Shop Mathematics II	INT 162 (8) Machine Operations Lab II	INT 113 (3) Fundamentals of CNC	OPT 100 (2) Tooling Machining Metrology	SCC 101 (2) Student Success Experience		
	3rd Quarter	INT 143 (3) Applied Shop Mathematics III	INT 163 (8) Machine Operations Lab III	INT 116 (3) CNC Operations	INT 145 (3) Shop Floor Programing			
	4th Quarter	● ENG 111 (3) English Comp I	MAT 101 (4) Elementary Algebra	INT 211 (3) Advanced CNC	INT 204 (3) CNC Lathe Programming	OPT 101 (3) Intro to Operations		
	5th Quarter	● ENG112 (3) English Comp II	● Arts & Humanities Elective (3)	OPT 205 (3) Manufacturing Processes	INT 212 (3) Computer Assist Programming	INT 114 (3) Jig & Fixture Design	■ EDT 198 (2) PC Apps in Engr	
	6th Quarter	● COM 206 (3) Interpersonal Communication	● Arts & Humanities Elective (3)	INT 225 (3) Tool Design	INT 213 (4) CNC Applications	OPT 206 (3) Value Analysis		



Sinclair converts to semesters in 2012-2013. Visit www.sinclair.edu/semesters for new course names and credit hours.

Credit-Based Transition Programs, such as dual enrollment, articulated courses 2+2 (+2)
 ◆ = high school to college ● = community college to 4 year institution ■ = opportunity to test out
Required Courses (credit hours)
Recommended Elective Courses