



MIAMI VALLEY
TECHPREP
CONSORTIUM

COLLEGE: **Sinclair Community College**

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

Kettering Fairmont, Stebbins, Butler Tech,

Miami Valley CTC, Warren CCC, Wayne



PROGRAM OF STUDY PATHWAY TEMPLATES 2011-2012
— COMPUTER AIDED MANUFACTURING - CNC TECH *

CAREER FIELD: **Manufacturing Technologies**

PATHWAY: **Precision Machining**

PROGRAM: **Computer Aided Manufacturing - CNC Technology**

96 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)	Introduction to Engineering Design (1)	Technology Word, PowerPoint, Excel (.5) Art (.5)	Elective (1)
	Junior	English III (1)	Algebra II / Adv Algebra II & Trigonometry (1)	Physics I (1)	Am Govt (.5) Social Studies Elective (.5)	College Tech Prep Engineering Technology (1)	College Tech Prep Engineering Technology (1)	P E (.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 107 (4) Principles of Manufacturing	INT 116 (3) CNC Operations	■ INT 109 (4) Funda of Tool & Manuf Processes	SCC 101 (2) Student Success Experience	OPT 112 (3) Ergonomics		
	2nd Quarter	● ENG 111 (3) English Comp I	INT141(3) Applied Shop Math I	INT 113 (3) Fundamentals of CNC	OPT 100 (2) Tooling & Machining Metrology	OPT 125 (3) Intro to World Class Operations	■ ETD 198 (2) Personal Comp Appl in Engr	
	3rd Quarter	● ENG112 (3) English Comp II	INT 142 (3) Applied Shop Math II	OPT 101 (3) Intro to Operations	COM 206 (3) Interpersonal Communication	INT 204 (3) CNC Lathe Programming	ETD 199 (2) Intro to Comp Aided Drafting Concepts	
	4th Quarter	INT 211 (3) Advanced CNC	INT 143 (3) Applied Shop Math III	ETD 280 (3) Adv Computer Aided Drafting	Arts & Humanities Elective (3)	OPT 205 (3) Manufacturing Processes		
	5th Quarter	INT 212 (3) Computer Assisted Programming	MAT 101 (4) Elementary Algebra	INT 114 (3) Jig & Fixture Design	OPT 126 (3) Supervision & Team Leadership	INT 145 (3) Shop Floor Programming		
	6th Quarter	Arts & Humanities Elective (3)	OPT 216 (3) Facilities Planning	OPT 113 (3) Coordinate Measurement	INT 213 (4) CNC Applications	INT 225 (3) Tool Design		



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