

**COLLEGE:** Sinclair Community College-MVTP Consortium

**HIGH SCHOOL(S):** Centerville H.S., Pontiz CTC, GreeneCCC,

Kettering Fairmont H.S., Stebbins H.S., Butler

Tech, Miami Valley Career Tech Center

**CLUSTER:** ScienceTech, Engineering&Mathematics

**PATHWAY:** Engineering Technology

**PROGRAM:** Operations Technology-Industrial Engineering Option

2009-2010

109 SCC Credit Hours-Associate of Applied Science



ADULT LEARNER ENTRY POINTS

GRADE		ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	REQUIRED COURSES RECOMMENDED ELECTIVE COURSES OTHER ELECTIVE COURSES CAREER AND TECHNICAL EDUCATION COURSES				
<b>SECONDARY</b>	9	English I (1)	Integrated Algebra & Geometry or Algebra I (1)	Physical Science (1)	Social Studies (1)	Health (.5) P E (.5)	Career Exploration integrated with English 9	Elective (1)		
	10	English II (1)	Geometry or Algebra II (1)	Biology (1)	American History (1)	Introduction to Engineering Design (1)	Technology Word & Excel (.5) Art (.5)	Elective (1)		
	11	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)		
	In 11th grade, assess for college readiness by administering the "ACCUPLACER TEST" (Reading, Math and Writing)									
	12	English IV (1)	Integrated College Math or Calculus (1)	Chemistry (1)	Elective (1)	College Tech Prep Engineering Technology (1)	College Tech Prep Engineering Technology (1)	Elective (1)		
<b>Mandatory College Placement Assessment (Reading, Math and Writing) and Sinclair Academic Advising # + Passage of the State O.G.T. Requirement</b>										
<b>POSTSECONDARY</b>	1st Quarter	•English Comp. I ENG111 (3)	Technical Mathematics I MAT131 (5)	Intro to OSHA Gen IndustryStandards OPT105 (1)	Introduction to Operations OPT101 (3)	Intro World-Class Operations OPT125 (3)	Supervision & Team Leadership OPT126 (3)			
	2nd Quarter	•English Comp. II ENG112 (3)	•Technical Mathematics II MAT132 (5)	Ergonomics OPT112 (3)	Lean Operations OPT130 (3)	Excel for Engineering Tech OPT198 (2)	■Print Reading with GD&T ETD128 (3)			
	3rd Quarter	•English Comp III ENG113 (3)	•Technical Mathematics III MAT133 (5)	Operations Work Measurement OPT110 (2)	Operations Project Management OPT212 (3)	Technical Physics I PHY131 (4)	■Intro to Computer Aided Drafting ETD199 (2)			
	4th Quarter	•Interpersonal Comm Com206 (3) or EffPubSpeaking	Operations Systems Analysis OPT207 (3)	Statistical Process Control OPT201 (3)	Manufacturing Processes OPT205 (3)	Technical Physics II PHY132 (4)	Operations Cost Analysis OPT209 (3)			
	5th Quarter	•Arts&Humanities Elective (3)	Supply Chain Oper and Logistics OPT251 (5)	Engineering Tech Economics OPT208 (3)	Manufacturing Measurement OPT111 (2)	Six Sigma - Green Belt OPT240 (3)				
	6th Quarter	•Arts&Humanities Elective (3)	Value Analysis OPT206 (3)	Facilities Planning OPT216 (3)	ISO9000/16949 QualitySysAuditing OPT223 (3)	Operations Tech Capstone OPT278 (3)	Operations Tech Elective (3)			
<p><b># The Tech Prep Template is a MAP to Program Course Selection.</b> Sinclair Academic Advisors will assist students with individual course selections. Templates are precise for the year stated.</p>					<b>Required Courses</b>					
					<b>Recommended Elective Courses</b>					
					<b>Career and Technical Education Courses</b>					
					<b>Credit-Based Transition Programs (e.g. Dual/Concurrent Enrollment, Articulated Courses 2+2 (+2) (⇄=High School to College) (⇄=Com. College to 4yr. Institution) (■=Opportunity to test out)</b>					
					<b>Mandatory Assessments, Sinclair Academic Advising, and State of Ohio Requirements</b>					