



PROGRAM OF STUDY PATHWAY TEMPLATES 2011-2012
 — OPERATIONS TECHNOLOGY - INDUSTRIAL *

COLLEGE: **Sinclair Community College**

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

Kettering Fairmont, Stebbins, Butler Tech, Oakwood,
Miami Valley CTC, Warren CCC, Wayne

CAREER FIELD: Engineering & Science Technologies

PATHWAY: Engineering Technology

PROGRAM: Operations Technology - Industrial Engineering

109 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)	P E (.5)	Elective (1)
	Junior	English III (1)	Algebra II or Adv Algebra & Trigonometry (1)	Conceptual Physics or Physics I (1)	American Govt (.5) Social Studies Elective (.5)	College Tech Prep Engineering Technology (1)	College Tech Prep Engineering Technology (1)	Technology: Word, PowerPoint, Excel (.5) Art (.5)
	Senior	<u>English IV (1)</u>	<u>Integrated College Math or Calculus (1)</u>	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	• ENG 111 (3) English Composition I	• MAT 131 (5) Technical Math I	SCC 101 (2) Student Success Experience	OPT 101 (3) Intro to Operations	OPT 125 (3) Intro World-Class Operations	OPT 126 (3) Supervision & Team Leadership	
	2nd Quarter	• ENG112 (3) English Composition II	• MAT 132 (5) Technical Math II	OPT 112 (3) Ergonomics	OPT 130 (3) Lean Operations	■ ETD 198 (2) PC Apps in Engineering	COM 206 or COM 211 (3) Interpersonal Comm or Public Speaking	
	3rd Quarter	• ENG113 (3) English Composition III	• MAT 133 (5) Technical Math III	OPT 110 (2) Operations Work Measurement	OPT 212 (3) Operations Project Management	PHY 131 (4) Technical Physics I	■ ETD 199 (2) Intro to Computer Aided Drafting	
	4th Quarter	ETD 132 (2) Metallurgy	OPT 207 (3) Operations Systems Analysis	OPT 201 (3) Statistical Process Control	OPT 205 (3) Manufacturing Processes	PHY 132 (4) Technical Physics II	OPT 209 (3) Operations Cost Analysis	
	5th Quarter	• Arts & Humanities Elective (3)	OPT 251 (5) Supply Chain Operations & Logistics	OPT 208 (3) Engineering Tech Economics	OPT 111 (2) Manufacturing Measurement	OPT 240 (3) Six Sigma - Green Belt	OPT 105 (1) Intro to OSHA Gen Industry Standards	
	6th Quarter	• Arts & Humanities Elective (3)	OPT 206 (3) Value Analysis	OPT 216 (3) Facilities Planning	OPT 223 (3) ISO9000/16949 Quality Sys Auditing	OPT 278 (3) Operations Tech Capstone	ETD 121 (2) Ethics for Engineering Technology Professionals	



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