



PROGRAM OF STUDY PATHWAY TEMPLATES 2011-2012
 — MECHANICAL ENGINEERING - CAD DESIGN *

COLLEGE: **Sinclair Community College**

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

Kettering Fairmont, Stebbins, Butler Tech, Oakwood,

Miami Valley CTC, Warren CCC, Wayne



CAREER FIELD: Engineering & Science Technologies

PATHWAY: Engineering Technology

PROGRAM: Mechanical Engineering - CAD Design

104 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)	Am 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	<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	• COM 211 (3) Effective Public Speaking I	• MAT 131 (5) Technical Math I	SCC 101 (2) Student Success Experience	■ ETD 198 (2) PC Apps - Engr Tech	■ ETD 101 (3) Intro to Engineering Design	■ ETD 128 (3) Print Reading with GD&T	
	2nd Quarter	• ENG 111 (3) English Comp I	• MAT 132 (5) Technical Math II	ETD 118 (1) Intro to the Product Real Process	OPT 101 (3) Intro to Operations	ETD 102 (3) Principles of Engineering	■ EET 198 (3) Digital Technology	
	3rd Quarter	• ENG112 (3) English Comp II	ETD 284 (5) Solidworks Basics	PHY 131 (4) Technical Physics I	ETD 110 (3) Engineering Design & Development	ETD 261 (2) Adv Analytical Tools for Engr Tech		
	4th Quarter	ETD 213 (4) Statics	ETD 133 (2) Non-Metallic Materials	ETD 132 (2) Metallurgy	CAT 255 (4) Engr Tech Project Management	OPT 105 (1) Intro to OSHA	ETD 291 (5) Unigraphics Basics	
	5th Quarter	• Arts & Humanities Elective (3)	• Sociology Elective (3)	OPT 205 (3) Manufacturing Processes	ETD 121 (2) Ethics for Engr Tech Professional	ETD 238 (2) Product Development & Testing	ETD 222 (4) Strength of Materials	
	6th Quarter	ETD 214 (4) Dynamics with Kinematic Analysis	ETD 245 (5) Machine Design	ETD 278 (4) Engineering Tech Design Capstone	ETD 270 (3) Mechanical Engr Tech Internship			



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