



PROGRAM OF STUDY PATHWAY TEMPLATES 2011–2012
— AUTOMATION CONTROL TECHNOLOGY *

COLLEGE: **Sinclair Community College**

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

Kettering Fairmont, Stebbins, Butler Tech,

Miami Valley CTC, Warren CCC, Wayne

CAREER FIELD: **Engineering & Science Technologies**

PATHWAY: **Engineering Technology**

PROGRAM: **Automation & Control Technology with Robotics**

106 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 / 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	<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	SCC 101 (2) Student Success Experiences	MAT 131 (5) Technical Mathematics I	■ EGR 100 (3) Fundamental Mechanical Skills	EET 120 (3) Intro to DC & AC Circuits	◆ ETD 101 (3) Intro Engineering Design		
	2nd Quarter	● ENG 111 (3) English Composition I	● MAT 132 (5) Technical Mathematics II	EGR 161 (3) Pbasic & Stamp	EET 198 (3) Digital Technology	■ EGR 128 (3) Robotics in CIM Systems		
	3rd Quarter	EGR 144 (3) Sensors	EGR 252 (3) Teach Pendant Robot Programming	EET 139 (4) Electrical Machinery	EGR 231(3) Intro to Troubleshooting Automated Systems	EET 281 (3) Programmable Logic Controllers	ETD 128 (3) Intro to Design Engr Symbology	
	4th Quarter	EGR 220 (3) Machine Vision	EET 166 (3) Industrial Machine Wiring & Standards	EGR 217 (4) Fluid Power & Control	EGR 210 (3) Human-Machine Interfaces (HMIs)	EET 282 (3) Adv Programmable Logic Controllers		
	5th Quarter	● ENG112 (3) English Comp II	● COM 206 or 211 (3) Interpersonal Comm or Effic Pub Speaking	EGR 255 (3) Industrial Networking	EGR 232 (3) Adv Troubleshooting of Auto Systems	EGR 244 (3) Automation and Control Devices	OPT 211 (3) Applied Industrial Risk Management	
	6th Quarter	● Social Science Elective (3)	PHY 131 (4) Tech Physics I	OPT 130 (3) Lean Operations	EGR 278 (3) Auto Manufact Project	Engineering Technical Elective (3)	PHI 207 (3) Logic or Arts & Human Elective	



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