

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

CLUSTER: **ScienceTech,Engineering&Mathematics**

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

PATHWAY: **Engineering Technology**



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

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

**Tech, Miami Valley Career Tech Center**

**2009-2010**

**107 Credit Hours-SCC - 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 |
| SECONDARY  | 9   | English I (1)                           | Integrated Algebra & Geometry or Algebra I (1)  | Physical Science (1)                             | Social Studies (1)  | Health (.5)<br>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-PPT-Excel .5<br>Art .5        | Elective (1) |  |
|  | 11  | English III (1)                         | Algebra II / Adv. Algebra II & Trigonometry (1) | Physics I (1)                                    | Am.Govt. (.5)<br>Social Studies<br>Elective (.5)  | College Tech Prep Engineering Technology (1)   | College Tech Prep Engineering Technology (1)  | P E (.5)     |  |
|  | <b>In 11th grade, assess for college readiness by administering the "Accuplacer Test" (Reading ,Math and Writing)</b> |   |   |  |   |  |   |              |  |
| 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>   |   |   |   |  |   |  |   |              |  |
| POSTSECONDARY  | 1st Quarter   |   | Technical Mathematics I MAT131 (5)              | Pbasic & Stamp EGR161 (3)                        | ■Fundamental Mechanical Skills EGR100 (3)   | ■Basic Electrical Circuits&Controls EET119 (4) | ◆Intro -Engineering Design ETD101 (3)         |              |  |
|  | 2nd Quarter   | ●English Composition I ENG111 (3)       | ●Technical Mathematics II MAT132 (5)            | Logic PHI207 (3) or Arts&Humanities Elective (3) | Digital Technology EET198 (3)   | ■Robotics in CIM Systems EGR128 (3)            |   |              |  |
|  | 3rd Quarter   | Sensors EGR144 (3)                      | Teach Pendant RobotProgramming EGR252 (3)       | Electrical Machinery EET139 (4)                  | Intro to Troublesht. Automated Sys. EGR231 (3)  | Programmable Logic Controllers EET281 (3)      | Intro to DesignEngr Symbology ETD128 (3)      |              |  |
|  | 4th Quarter   | Machine Vision EGR220 (3)               | Industrial Machine Wiring & Stands. EET166 (3)  | Fluid Power & Control EGR217 (4)                 | Human-Machine Interfaces (HMIs) EGR210 (3)  | Adv Programmable Logic Controllers EET282 (3)  | Applied Industrial Risk Management OPT211 (3) |              |  |
|  | 5th Quarter   | ●English Composition I I ENG112 (3)     | ●Interpersonal Comm Com206(3) or Effic.Speaking | Industrial Networking EGR255 (3)                 | Adv Troubleshoot. Of Auto Sys. EGR232 (3)   | Automation and Control Devices EGR244 (3)      | Engineering Technical Elective (3)            |              |  |
|  | 6th Quarter   | ●Social Science Elective (3)            | Tech Physics I Phy131 (4)                       | Lean Operations OPT130 (3)                       | Automated ManufacturingProj. EGR278 (3)   | Engineering Technical Elective (3)             |   |              |  |
| <p><b># The Tech Prep Template is a MAP to Program Course Selection. Sinclair Academic Advisors will assist students with individual course selections. Templates are precise for the year stated.</b></p> |   |   |   |  | <b>Required Courses</b>   |  |   |              |  |
|  |   |   |   |  | <b>Recommended Elective Courses</b>   |  |   |              |  |
|  |   |   |   |  | <b>Career and Technical Education Courses</b>   |  |   |              |  |
|  |   |   |   |  | <p><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></p> |  |   |              |  |
|  |   |   |   |  | <b>Mandatory Assessments, Sinclair Academic Advising, and State of Ohio Requirements</b>  |  |   |              |  |