

Electrical Control Systems

Diploma

EC22

Curriculum

Basic Skills	8
ENGL 1010 Fundamentals of English I (3)	3
<i>Select ONE of the following MATH courses:</i>	3
MATH 1012 Foundations of Mathematics (3)	
MATH 1013 Algebraic Concepts (3)	
EMPL 1000 Interpersonal Relations and Professional Development (2)	2
Occupational Courses	36
Required Courses:	30
IDSY 1130 Industrial Wiring (4)	
IDSY 1110 Industrial motor Controls I (4)	
IDSY 1210 Industrial Motor Controls II (4)	
IDSY 1230 Industrial Instrumentation (4)	
IDSY 1120 Basic Industrial PLCs (4)	
IDSY 1220 Intermediate Industrial PLCs (4)	
IDSY 1101 D Circuit Analysis (3)	
IDSY 1105 AC Circuit Analysis (3)	
Occupational Electives: (Choose six credit hours.)	6
AUMF 1110 Flexible Manufacturing Systems I (5)	
AUMF 1130 Appl Hydraulics, Pneumatics, and Mechanics (2)	
AUMF 1210 Flexible Manufacturing Systems II (5)	
AUMF 1560 Manufacturing Workforce Skills (1)	
AMCA 2110 CNC Fundamentals (4)	
ELCR 1030 Solid State Devices (5)	
ELCR 1040 Digital & Microprocessor Fundamentals (5)	
ELCR 1060 Linear Integrated Circuits (3)	
ELCR 1300 Mobile Audio and Video Systems (3)	
ELCR 2210 Advanced Circuit Analysis (5)	
ELCR 2220 Digital Communications (3)	
ELCR 2230 Antenna and Transmission Lines (3)	
ELCR 2240 Microwave Communications & Radar (3)	
ELCR 2250 Optical Communication Techniques (3)	
ELCR 2590 Fiber Optic Systems (3)	
ELCR 2600 Telecommunication & Data Cabling (3)	
ELCR 2620 Telcom-Instal Program & Data Trans (4)	
IDSY 1020 Print Reading & Problem Solving (3)	
IDSY 1160 Mechanical Laws and Principles (4)	
IDSY 1170 Industrial Mechanics (4)	
IDSY 1190 Fluid Power and Piping Systems (4)	
IDSY 1240 Maintenance for Reliability (4)	
IDSY 1260 Machine Tool for Industrial Repairs (4)	
MCHT 1020 Heat Treatment and Surf Grinding (4)	
MEGT 1010 Manufacturing Processes (3)	
MEGT 2100 Manufacturing Quality Control (3)	
Total Credit Hour (minimum):	44