

# Electronics Technology

## Diploma

ET14

### Curriculum

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<b>Basic Skills</b>	<b>8</b>
ENGL 1010 Fundamentals of English I (3)	3
EMPL 1000 Interpersonal Relations and Professional Development (2)	2
<i>Select ONE Math Course:</i>	3
MATH 1012 Foundations of Mathematics (3)	
MATH 1013 Algebraic Concepts (3)	
MATH 1111 College Algebra (3)	
<b>Occupational Courses</b>	<b>30</b>
<b>Required Courses:</b>	<b>27</b>
ELCR 1005 Soldering Technology (1)	
ELCR 1010 Direct Current Circuits (6)	
ELCR 1020 Alternating Current Circuits (7)	
ELCR 1030 Solid State Devices (5)	
ELCR 1040 Digital and Microprocessor Fundamentals (5)	
ELCR 1060 Linear Integrated Circuits (3)	
<b>Electronics Technology Occupational Elective: (Choose ONE course below.)</b>	<b>3</b>
ELCR 2170 Computer Hardware (5)	
ELCR 2190 Networking I (3)	
ELCR 2590 Fiber Optics Systems (3)	
ELCR 2600 Telecommunications and Data Cabling (3)	
ELCR 2620 Telecommunications Systems Installation, Programming, and Data Transmission (4)	
ELCR 2210 Analog Communications (5)	
ELCR 2220 Digital Communications (3)	
ELCR 2230 Antenna and Transmission Lines (3)	
ELCR 2240 Microwave Communications and Radar (3)	
ELCR 2250 Optical Communications Techniques (3)	
<b>Specialization: (Choose ONE course group below)</b>	<b>16</b>
<b>Telecommunication Electronics Specialization</b>	<b>18</b>
ELCR 2170 Computer Hardware (5)	
ELCR 2190 Networking 1 (3)	
ELCR 2590 Fiber Optic Systems (3)	
ELCR 2600 Telecommunication & Data Cabling (3)	
ELCR 2620 Telecommunication Systems Installation, Programming and Data Transmission (4)	
<b>Communications Electronics Specialization</b>	<b>17</b>
ELCR 2210 Advanced Circuit Analysis (5)	
ELCR 2220 Digital Communications (3)	
ELCR 2230 Antenna and Transmission Lines (3)	
ELCR 2240 Microwave Communications and Radar (3)	
ELCR 2250 Optical Communication Techniques (3)	

**Field Occupation Specialization**

16

*Select 16 credit hours from the occupational electives below.***Electronics Technology**

ELCR 2170 Computer Hardware (5)  
ELCR 2190 Networking I (3)  
ELCR 2590 Fiber Optic Systems (3)  
ELCR 2600 Telecommunication and  
Data Cabling (3)  
ELCR 2620 Telecommunications  
Systems (4)

ELCR 2210 Analog Communications (5)  
ELCR 2220 Digital Communications (3)  
ELCR 2230 Antenna and Transmission Lines (3)  
ELCR 2240 Microwave Communications and Radar  
(3)  
ELCR 2250 Optical Communications Techniques (3)

**Computer Information Systems Technology**

CIST 1122 Hardware installation and  
Maintenance  
CIST 1130 Operating Systems  
Concepts (3)  
CIST 1141 Network+ Preparation (4)  
CIST 1200 Database Management (4)  
CIST 1401 Computer Networking  
Fundamentals (4)  
CIST 1510 Web Development I (3)

CIST 1220 Structured Query Language (SQL) (4)  
CIST 1305 Program Design and Development (3)  
CIST 1601 Information Security Fundamentals (3)  
CIST 2451 Cisco Network Fundamentals (4)  
CIST 2452 Cisco Routing Protocols and Concepts  
(4)  
CIST 2453 Cisco Scaling Networks (4)  
CIST 2454 Cisco Accessing the WAN (4)

**Industrial Systems Technology**

IDSY 1110 Industrial Motor Controls I (4)  
IDSY 1120 Basic Industrial PLC's (6)  
IDSY 1130 Industrial Wiring (4)  
IDSY 1210 Industrial Motor Controls II (4)  
IDSY 1220 Intermediate Industrial PLCs (4)

**Transit Systems Technology**

TRST 1000 Transit Industry Fundamentals (1)  
TRST 1040 Transit Fiber Optics Controls (2)

**Automated Manufacturing Technology**

AUMF 1110 Flexible Manufacturing Systems I (5)  
AUMF 1130 Applied Hydraulics, Pneumatics, and Mechanics (2)  
AUMF 1560 Manufacturing Production Requirements (1)

**Mechanical Engineering**

MEGT 2100 Manufacturing Quality Control (3)

**Total Credit Hour (minimum):****54**