

Electronics Technology

Associate of Applied Science Degree

ET13

Curriculum

General Education Core	15
Area I: Language Arts/Communication	3
ENGL 1101 Composition and Rhetoric (3)	
Area II: Social/Behavioral Sciences <i>(Choose ONE course below.)</i>	3
ECON 1101 Principles of Economics (3)	
ECON 2105 Principles of Macroeconomics (3)	
ECON 2106 Principles of Microeconomics (3)	
HIST 1111 World History I (3)	
HIST 1112 World History II (3)	
HIST 2111 American History I (3)	
HIST 2112 American History II (3)	
POLS 1101 American Government (3)	
PSYC 1101 Introduction to Psychology (3)	
SOC 1101 Introduction to Sociology (3)	
Area III: Natural Sciences / Mathematics	3
MATH 1111 College Algebra (3)	
Area IV: Humanities/Fine Arts <i>(Choose ONE course below.)</i>	3
ARTS 1101 Art Appreciation (3)	
ENGL 2130 American Literature (3)	
ENGL 2310 English Literature from the Beginnings to 1700 (3)	
HUMN 1101 Introduction to Humanities (3)	
MUSC 1101 Music Appreciation (3)	
RELG 1101 Introduction to World Religions (3)	
Program Specific Elective: General Education	3
MATH 1113 Precalculus (3)	
Occupational Courses	30
Required Courses:	30
COMP 1000 Introduction to Computer Literacy (3)	
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)	

Specialization: <i>(Choose ONE course group below)</i>	16
Telecommunication Electronics Specialization	18
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)	
Communications Electronics Specialization	17
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
<i>Select 16 credit hours from the Field Occupational Specialization Electives list. Advisor approval required.</i>	
Total Credit Hour (minimum):	61

Field Occupation Specialization Electives

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)