

Electronics Technology, AAS

Academic Year 2024-2025

Program Description:

Electronics Technician is one of today's fastest growing careers, a career that can provide not only a great salary and job security but also exciting work in a field that is always growing and changing. This field has many opportunities including maintenance, design, service and sales in commercial, manufacturing and process industries.

The following industries employ electronic technicians: computer industry, consumer electronics industry, robotics industry, utility companies, healthcare, broadcast, manufacturing, aerospace, automotive, mining, office equipment, waste-treatment, and any other industries that use electrical/electronic systems.

Career Outlook and Salary Forecast:

For the most current salary information please refer to the Bureau of Labor Statistics "Occupational Outlook Handbook" found at www.bls.gov/ooh/.

Program Outcomes:

- Understand the daily activities of a technician in an industrial setting
- Apply basic troubleshooting and calibration skills to common electronic or electromechanical equipment
- Interact successfully with technical staff while analyzing simple to moderately complex problems associated with automated manufacturing
- Execute accepted documentation practices for maintenance and calibration of electronic equipment
- Apply ethical principles and responsibilities in the profession
- Recognize the need for life-long learning in a world of technological change
- The student will compose coherent, unified written documents that demonstrate correct mechanics and style, as well as appropriate documentation of sources

Employment Opportunities:

- Bench technician
- Design technician
- Process control technician
- Bio-medical technician
- Maintenance technician
- Electronics trainers
- Electronics sales
- Installation technician

Contact Information:

Robert Adkins

Room: 247

Phone: 304-710-3458 or 1-8-N-ROLLED (1-866-676-5533) e-mail: adkinsr@mctc.edu

Mountwest empowers students to learn and lead in the community and in the workforce.

Electronics Technology – Major Code CE10

Name:					ID Number 942-		
Educational Counselor:							
Faculty Advisor:							
COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
ELT 111	DC Circuit Analysis & Applications ¹		5				
ENL 131	Business and Technical Writing ²		3				
IT 101	Fundamentals of Computers		3				
MAT 120	Applied Professional Math ³		3				
			14				
COM 112 or COM 125	Oral Communication or Interpersonal Communication		3				
ELT 121	Alternating Current Circuit Analysis & Applications ⁴		5				
MAT 215	Applied Discrete Math ⁵		3				
SCI 110	Introductory Physics ⁶		4				
			15				
ELT 131	Analog Circuits Analysis & Applications ⁷		5				
ELT 211	Digital Circuits ⁸		5				
IT 270	Computer Essentials and Application ⁹		4				
	Technical Elective ^{10,14}		3				
			17				
ELT 222	Introduction to Microcontrollers ¹¹		4				
ELT 299	Electronic Technology Internship ¹²		3				
IT 230 or IT 225	Network Communications or Fundamentals of Wireless LANs		3				
	Social Science Elective ¹³		3				
	Technical Elective ^{10,14}		3				
			16				
HOURS REQUIRED FOR GRADUATION: 62							

- ELT 111 has a prerequisite/co-requisite of MAT 144. MAT 144 has a corequisite of MAT 099.
- ENL 131 has a prerequisite of placement in 100-level English or a co-requisite of ENL 095.
- MAT 120 has a prerequisite of placement in 100-level Math or a minimum ACT Math score of 19 or SAT Math score of 510.
- ELT 121 has a prerequisite of ELT 111.
- MAT 215 has a prerequisite of MAT 145 or MAT 144, MAT 120 or MAT 120E.
- SCI 110 has a prerequisite of MAT 144, MAT 120, or MAT 120E.
- ELT 131 has a prerequisite of ELT 121.
- ELT 211 has a prerequisite of MAT 215.
- IT 270 has a prerequisite of IT 101 or IT 102.
- Choose from any of the following: ELT 150, 160, ELT 280-283, IT 115, IT 120, IT 121, IT 131, IT 150, IT 171, IT 224, IT 250, IT 261, GST 100, GST 110, GST 140, GST 150, GST 160.
- ELT 222 has a prerequisite of ELT 211.
- ELT 299 has a prerequisite of Permission
- Choose from EC, HIST, PSYC, SOCI 100-level or above.
- ELT 160 has a prerequisite of ELT 131 and ELT 211