

Electronics Technology

Associate in Applied Science in Technical Studies

Program Description:

The Electronics Technology program is offered in cooperation with the Cabell County Career Technology Center (CCCTC). The CCCTC is responsible for providing the electronics courses and electronics laboratories. Mountwest Community & Technical College provides support courses that enhance a student's analytical, communication, computer, customer service, and interpersonal skills.

Upon completion of the Associate of Applied Science Degree in Electronics Technology, the graduate will be able to:

- Exhibit knowledge of electronic terminology;
- Demonstrate a working knowledge of the proper techniques for maintaining, troubleshooting, and repairing electronic devices through proper use of schematic diagrams and common test equipment;
- Apply quantitative principles to analyze and solve problems;
- Make decisions after gathering and analyzing information;
- Prepare and present written and oral communication;
- Demonstrate teamwork and customer service skills.

Career Outlook:

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.

Salary Forecast:

Low Range	\$21,710 to \$27,680
Mid Range	\$27,680 to \$45,750
High Range	\$45,750 to \$62,540

(Information obtained from Occupational Outlook Handbook, 2006-2007)

Tech Prep Affiliation:

The Electronics Technology program is aligned with the West Virginia Tech Prep Engineering/Technical cluster. This career track provides the opportunity for West Virginia students to acquire college credit while attending high school.

Major Code – CE10

FIRST YEAR	
First Semester ENL 111 Written Communication3 ELT 111 Direct Current Circuit Analysis ¹4 ELT 111L Direct Current Electronics Lab2 IT 101 Fundamentals of Computers (EDGE)3 MAT 145 Applications in Algebra3 SS Social Science Elective ²3 TOTAL CREDITS18	Second Semester COM 112 Oral Communication 3 ELT 121 Alternating Current Circuit Analysis ^{1,3} 4 ELT 121L Alternating Current Electronics Lab2 MAT 215 Applied Discrete Mathematics ⁴3 SCI 110 Introductory to Physics ⁴4 TOTAL CREDITS 16
SECOND YEAR	
Third Semester ELT 131 Analog Circuits ^{1,6}5 ELT 131L Analog Circuits Lab1 ELT 211 Combinational Logic Circuits ^{1,7}5 ELT 211L Combinational Logic Circuits Lab2 IT 270 Computer Essentials and Application4 TOTAL CREDITS17	Fourth Semester (Electronics Option) ELT 222 Introduction to Microprocessor ⁸ 4 ELT 299 Electronic Technology Internship3 IT 131 Introduction to Networking ⁵4 IT 276 Computer Maintenance⁹ (EDGE)3 TOTAL CREDITS 14
HOURS REQUIRED FOR GRADUATION: 65	

Employment Opportunities:

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

Earn a Degree Graduate Early (EDGE):

This program provides students the opportunity to receive credit for their high school EDGE courses.

Contact Information:

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1. ELT 111, ELT 121, ELT 131 and ELT 211 must be taken concurrently with their respective labs: ELT 111L, ELT 121L, ELT 131L and ELT 211L.

2. Select from EC 102, SS 201, SS 210, or SS 215.

3. ELT 121 has a prerequisite of ELT 111.

4. MAT 215 and SCI 110 have a prerequisite of MAT 145.

5. IT 131 has a prerequisite of IT 101.

6. ELT 131 has a prerequisite of ELT 121.

7. ELT 211 has a prerequisite of ELT 131 and MAT 215.

8. ELT 222 has a prerequisite of ELT 211.

9. IT 276 has a prerequisite of IT 270.