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 • Concentration Code - CE13

#### FIRST YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>ENL 111 Written Communication .................. 3</td>
<td>COM 112 Oral Communication .......................... 3</td>
</tr>
<tr>
<td>ELT 111 Direct Current Circuit Analysis........ 4</td>
<td>ELT 121 Alternating Current Circuit Analysis 1,3 4</td>
</tr>
<tr>
<td>ELT 111L Direct Current Electronics Lab .......... 2</td>
<td>ELT 121L Alternating Current Electronics Lab ....... 2</td>
</tr>
<tr>
<td>IT 101 Fundamentals of Computers (EDGE) ........ 3</td>
<td>MAT 215 Applied Discrete Mathematics 4 ............. 3</td>
</tr>
<tr>
<td>MAT 145 Applications in Algebra ................. 3</td>
<td>SCI 110 Introductory to Physics 4 .................. 4</td>
</tr>
<tr>
<td>SS Social Science Elective ........................ 3</td>
<td>TOTAL CREDITS ........................................ 18</td>
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<tr>
<td><strong>TOTAL CREDITS</strong> ................................ 18</td>
<td><strong>TOTAL CREDITS</strong> .................................. 16</td>
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#### SECOND YEAR

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Fourth Semester</th>
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</thead>
<tbody>
<tr>
<td>IT 131 Introduction to Networking 5 ............. 4</td>
<td>AH 151 Medical Terminology (EDGE) .................. 3</td>
</tr>
<tr>
<td>ELT 131 Analog Circuits 1,4 ........................ 5</td>
<td>ELT 222 Introduction to Microprocessor 5 ........... 4</td>
</tr>
<tr>
<td>ELT 131L Analog Circuits Lab ........................ 1</td>
<td>ELT 223 Biomedical Instrumentation 6 ............... 3</td>
</tr>
<tr>
<td>ELT 211 Combinational Logic Circuits 1,7 ........ 5</td>
<td>ELT 299 Electronic Technology Internship ........... 3</td>
</tr>
<tr>
<td>ELT 211L Combinational Logic Circuits Lab ........ 2</td>
<td>BIOL 257 Introduction to Anatomy &amp; Physiology (EDGE) 3</td>
</tr>
<tr>
<td>IT 270 Computer Repair (EDGE) ....................... 3</td>
<td><strong>TOTAL CREDITS</strong> .................................. 16</td>
</tr>
<tr>
<td><strong>TOTAL CREDITS</strong> ................................ 20</td>
<td><strong>TOTAL CREDITS</strong> .................................. 16</td>
</tr>
</tbody>
</table>

**HOURS REQUIRED FOR GRADUATION: 70**

### 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:
Carol Perry • Community College, Room 101  
Phone: 304-696-3018 or 1-866-N-ROLLED (1-866-676-5533) • E-mail: perry@mctc.edu

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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. Social Science requirement: 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 and IT 270 have 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. ELT 223 has a prerequisite of ELT 211 and ELT 211L.