

# ELECTRICAL TECHNOLOGY: ELECTRONICS AAS



## Electrical Technology at Cayuga

Cayuga's approach focuses on the hands-on use of industrial instrumentation to learn the operation and troubleshooting skills for sophisticated electronic systems. Within our continually changing technological world, electronics technicians find rewarding work in the development and maintenance of electronic components, products, and systems.

## State-of-the-Art

Courses provide students with a fundamental knowledge in:

- DC and AC Circuitry
- Digital Circuits
- Microprocessor Systems
- Programmable Logic Controllers
- High Frequency Systems

Our simulation laboratory environments give students experience with:

- Multimeters
- Oscilloscopes
- Logic Pulsers & Probes
- Logic Analyzers
- Spectrum Analyzers
- Network Analyzers

## Career Possibilities

Positions in the fields of computers, robotics, medical instrumentation, audio/radio frequency communication, and manufacturing include:

- Electronics Technician
- Service Technician
- Systems Test Technician
- Research and Development Technician
- Quality Control Technician
- Documentation Technician
- Software Technician
- Biomedical Technician

## Electrical and Electronics Engineering Technicians

2021 Median Salary

**\$63,640/yr**

*United States Department of Labor*

<https://www.bls.gov/ooh/architecture-and-engineering/electrical-and-electronics-engineering-technicians.htm>



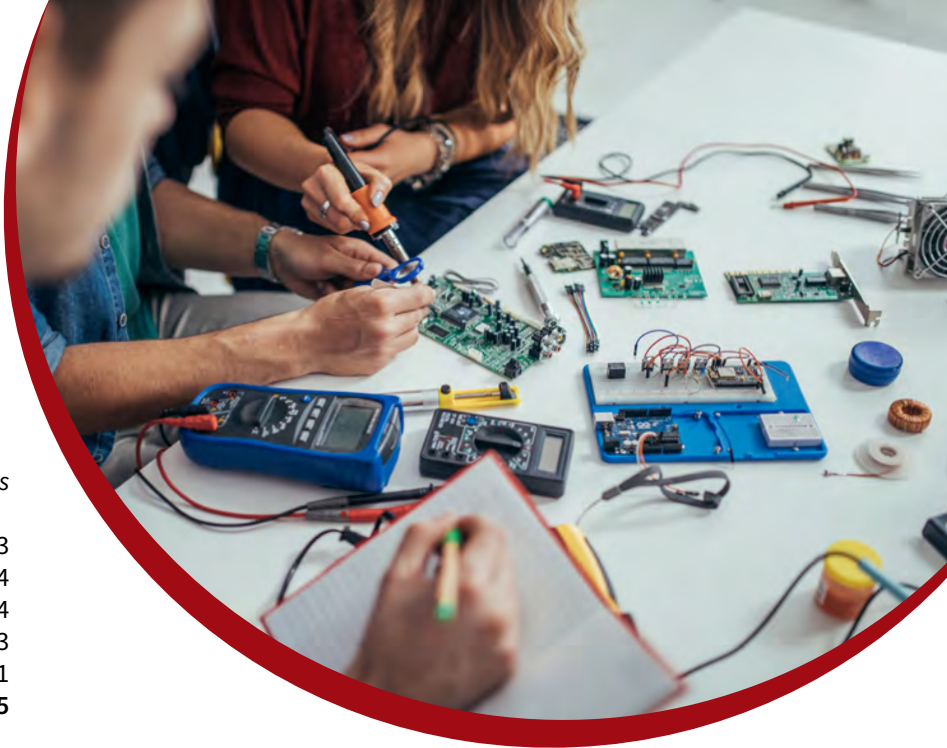
**CAYUGA**<sup>®</sup>  
COMMUNITY COLLEGE

cayuga-cc.edu



# Electrical Technology: Electronics

AAS



<i>Courses</i>	<i>Credit Hours</i>
<b>First Semester</b>	
ENGL 101 Freshman English I	3
ELEC 101 Electrical Circuits	4
ELEC 105 Digital Electronics	4
Math Elective*	3
Health or Physical Education	1
	<b>15</b>
<b>Second Semester</b>	
ENGL 102 Freshman English II	
or	
ENGL 270 Technical Writing	3
ELEC 102 Basic Electronics	4
ELEC 107 Fundamentals of Microcomputers	4
MATH 114 Applied Mathematics for Technologists	
or	
MATH 104 College Algebra and Trigonometry (or higher)	3
CS 200 Programming in Visual Basic	
or	
CS 222 Programming in C/C++	
or	
CS 238 Java	3
	<b>17</b>
<b>Third Semester</b>	
ELEC 201 Intermediate Electronics	4
ELEC 208 Radio Frequency Communications	4
PHYS 103 General Physics I	4
Technical Elective**	3
Behavioral/Social Sciences	3
	<b>18</b>
<b>Fourth Semester</b>	
ELEC 204 Industrial Electronics	4
ELEC 209 Programmable Logic Controllers	3
ENGR 207 Quality Assurance	3
PHYS 104 General Physics II	4
	<b>14</b>
<b>TOTAL CREDIT HOURS</b>	<b>64</b>

\* MATH 112, 115, 116 or 121 will not fulfill Math requirement.

\*\* The following will fulfill this requirement:

BUS 225 or BUS 226

CS 200 or higher

Electronics

Engineering

Geographic Information Systems

Math (except Math 112, 115, 116 or 121)

Mechanical Manufacturing Technology

Physics

## Why Cayuga?

- Small classes and individual attention
- State-of-the-art equipment and instrumentation
- Experimental and simulation laboratory environments
- Extra support from student tutors
- Open lab hours
- Affiliation with the New York State Engineering and Technology Association (NYSETA), providing a link to other two- and four-year institutions in New York
- Opportunities for plant tours through the Technology Club



Contact us for more information

**ADMISSIONS OFFICE**

admissions@cayuga-cc.edu

www.cayuga-cc.edu/admissions

1-866-598-8883

**AUBURN CAMPUS**

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**FULTON CAMPUS**

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