3.0

Electrical Engineering Technology

The Associate in Applied Science degree in Electrical Engineering Technology has been specifically designed to prepare individuals to become advanced technicians in the workforce.

Electrical Engineering Technicians (Associates degree holders) typically build, install, test, troubleshoot, repair, and modify developmental and production electronic components, equipment, and systems such as industrial/computer controls, manufacturing systems, instrumentation systems, communication systems, and power electronic systems.

A broad-based core of courses ensures that students develop the skills necessary to perform entry-level tasks. Emphasis is placed on developing the ability to think critically, analyze, and troubleshoot electronic systems. Beginning with electrical fundamentals, course work progressively introduces electronics, 2D Computer Aided Design (CAD), circuit simulation, solid-state fundamentals, digital concepts, instrumentation, C++ programming, microprocessors, programmable Logic Controllers (PLCs). Other course work includes the study of various fields associated with the electrical/electronic industry.

This degree program focuses on the knowledge and skills associated with the installation, maintenance, integration and troubleshooting of instrumentation and control systems. It is intended for workforce development to permit students to go directly into industry with this degree.

Graduates should qualify for employment as engineering assistants or as computer, electrical, or electronic technicians with job titles such as electronics engineering technician, field service technician, maintenance technician, communications technician, electronic tester, electronic systems integrator, electrical and electronics repairers, electromechanical equipment assemblers, electrical drafter, electronics and instrumentation technician, control technician, bench technician, electric motor, power tool, and related repairers, or production control technician.

The AAS degree in Electrical Engineering Technology is accepted at some colleges and universities as the first two years of a bachelor's-level engineering technology program and graduates can transfer to a university program to finish a bachelor's degree; however, there will be deficiencies.

Information on the Electrical Engineering Technology program may be found on the Electrical Engineering Technology website.

For specific information about potential positions and wages in electrical engineering technology employment, visit the Central Piedmont Career Coach website.

Electrical Engineering Technology (A40180)

Degree Awarded

The Associate in Applied Science Degree - Electrical Engineering Technology is awarded by the College upon completion of the program.

Program Accreditation

The Electrical Engineering Technology program at Central Piedmont is accredited by the Engineering Technology Accreditation Commission (TAC) of the Accreditation Board of Engineering and Technology (ABET).

How to Apply:

Complete a Central Piedmont admissions application through Get Started on the Central Piedmont website.

Contact Information

For questions about the program or for assistance as a student in the program, contact faculty advising. The Electrical Engineering Technology program is in the Engineering Technology Division. For additional information, visit the Electrical Engineering Technology website or call the Program Chair at 704.330.6773.

General Education Requirements

Writing and Inquiry

ENG 111

COM 110 Introduction to Communication COM 231 Public Speaking ENG 112 Writing and Research in the Disciplines ENG 113 Literature-Based Research ENG 114 Professional Research & Reporting MAT 171 Precalculus Algebra 4.0 or MAT 271 Calculus I Select 3 credits of the following: 3.0 ART 111 Art Appreciation ART 114 Art History Survey I ART 115 Art History Survey II HUM 120 Cultural Studies DRA 111 Theatre Appreciation HUM 130 Myth in Human Culture MUS 110 Music Appreciation MUS 112 Introduction to Jazz PHI 215 Philosophical Issues PHI 240 Introduction to Ethics REL 110 World Religions Select 3 credits of the following: 3.0 ECO 251 Principles of Microeconomics ECO 252 Principles of Macroeconomics HIS 111 World Civilizations II HIS 131 American History I HIS 132 American History I POL 120 American Government PSY 150 General Psychology SOC 210 Introduction to Sociology Major Requirements ACA 122 College Transfer Success 1.0 ELC 231 Electric Power Systems 4.0	LINOTTI	writing and inquiry	5.0
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ELN 133 Digital Electronics 4.0 ELC 231 Electric Power Systems 4.0	ACA 122	College Transfer Success	1.0
ELC 231 Electric Power Systems 4.0	ELC 131	Circuit Analysis I	4.0
•	ELN 133	Digital Electronics	4.0
ELC 135 Electrical Machines 3.0	ELC 231	Electric Power Systems	4.0
	ELC 135	Electrical Machines	3.0

Total Credits		67
ISC 112	Industrial Safety	
WBL 112	Work-Based Learning I	
Select 2 credits f	rom the following courses:	2.0
or MAT 272	Calculus II	
MAT 172	Precalculus Trigonometry	4.0
PHY 251	General Physics I	
PHY 151	College Physics I	
Select 4 credits f	from the following:	4.0
ELN 232	Introduction to Microprocessors	4.0
CSC 134	C++ Programming	3.0
or PCI 173	Programmable Systems	
PCI 170	DAQ and Control	4.0
ELC 133	Circuit Analysis II	4.0
or EGR 120	Engineering and Design Graphics	
ELN 150	Computer-Aided Drafting for Electronics	2.0
ELN 260	Programmable Logic Controllers	4.0
ELN 131	Analog Electronics I	4.0

No diplomas are offered in Electrical Engineering Technology.

Electrical Engineering Technology Certificates (C40180)

Electrical Engineering Technology Certificate Specialization in Automation Control (C40180-C6)

Major Requirements

Total Credits		15
PCI 173	Programmable Systems	4.0
ELC 136	Electrical Machines II	4.0
ELC 135	Electrical Machines	3.0
ELN 260	Programmable Logic Controllers	4.0

Electrical Engineering Technology Suggested Course Sequence

The following is the suggested plan for when to take each course to complete the Associate in Applied Science degree, based on the program requirements of the 2024-2025 catalog. This is only a recommendation — you may take courses in another order upon consultation with your advisor. This plan is based on you starting with college-level math and English courses, starting your program in the fall, and attending full-time. You can also follow this sequence if you attend part-time. Speak with your academic advisor about the plan and any questions. This program might also offer diplomas or certificates; visit the catalog or contact the program for details. Visit the Academic Advising page for instructions on locating your assigned advisor: https://www.cpcc.edu/academics/academic-advising

Term I		Credits
ENG 111	Writing and Inquiry	3.0
MAT 171	Precalculus Algebra	4.0
ELC 131	Circuit Analysis I	4.0
ELN 133	Digital Electronics	4.0
ELN 150 or EGR 120	Computer-Aided Drafting for Electronics or Engineering and Design Graphics	2.0

ACA 122	College Transfer Success	1.0
	Credits	18
Term II		
COM 110	Introduction to Communication	3.0
or ENG 112	or Writing and Research in the Disciplines	
ELC 133	Circuit Analysis II	4.0
ELN 260	Programmable Logic Controllers	4.0
CSC 134	C++ Programming	3.0
	Credits	14
Term III		
Behavioral/Social Science		3.0
MAT 172	Precalculus Trigonometry	4.0
ELC 135	Electrical Machines	3.0
ELN 131	Analog Electronics I	4.0
ELN 232	Introduction to Microprocessors	4.0
	Credits	18
Term IV		
ELC 231	Electric Power Systems	4.0
Humanities/Fine Arts		3.0
PHY 151	College Physics I	4.0
PCI 170	DAQ and Control	4.0
or PCI 173	or Programmable Systems	
WBL 112	Work-Based Learning I	2.0
or ISC 112	or Industrial Safety	
	Credits	17
	Total Credits	67