



WHAT IS THE ELECTRONICS & COMPUTER TECHNOLOGY PROGRAM?

PVCC offers two options in electronics and computer technology: an A.A.S. degree in electronics and computer technology and a career studies certificate in electronics technology.

Electronics & Computer Technology Associate Degree

Electronics and computer technology is a two-year associate of applied science (A.A.S.) degree program that prepares students for entry-level jobs in computer and electronics technology or related fields. Individuals seeking their first employment or those presently in the field who are seeking additional knowledge and skills training may also benefit from this program.

Electronics Technology Career Studies Certificate

The electronics technology career studies certificate is a two-semester program that aligns with courses in the Electronics and Computer Technology A.A.S. Degree

Program. Successful graduates will be able to secure entry-level employment or advance careers or skillsets in fields that require technical knowledge of electronics, computer repair, power, energy, and electronic systems. Since this certificate is a “stackable credential,” credits taken as a part of this program can be applied towards PVCC’s Electronics & Computer Technology Degree.

WHAT DOES AN ELECTRONICS TECHNICIAN DO?

Electrical and electronics engineering technicians help engineers design and develop computers, communications equipment, navigational equipment, and other electrical and electronic equipment. They are involved in the manufacturing and distribution of equipment for automation and often work in product evaluation and testing.

WHAT SKILLS ARE NEEDED TO EXCEL IN THIS PROFESSION?

- Strong reasoning skills to identify and solve problems
- Logical thinking skills, and the ability to follow a sequence or specific set of rules, to implement design plans, inspect designs, and develop prototypes
- Math skills to analyze, design, and troubleshoot projects
- Mechanical skills to use hand tools and analyze mechanical systems
- Observational skills to determine if engineers’ designs are achieved
- Strong communication skills, self-motivation, and an ability to work in a team environment

WHAT TYPES OF JOBS DOES THIS PROGRAM PREPARE ME FOR?

- Biomedical Equipment Technician
- Test Technician
- Manufacturing Technician
- Micro-Assembly Technician

- Electronics Technician
- Facilities Technician

WHAT IS THE EMPLOYMENT OUTLOOK FOR THIS CAREER?

Demand for electrical and electronics engineering technicians is expected to continue for workers in this industry because of the integration of computer and electronics systems (source: www.bls.gov).

WHAT ARE THE AVERAGE EARNINGS?

The median annual wage for electrical and electronics engineering technicians was \$61,130 in May 2015. The lowest 10 percent earned less than \$36,170, and the highest 10 percent earned more than \$90,570 (source: www.bls.gov).

WHY SHOULD I CHOOSE PVCC?

- PVCC has a fully functional electronics lab, a manufacturing technology lab, and a state-of-the-art machine shop for use by students in the program.
- Students can gain hands-on experience through internships with local industries.
- For qualifying students who plan to pursue a four-year technology degree, PVCC’s Electronics and Computer Technology Degree Program provides an approved pathway to the bachelor of science degree in engineering technology at Old Dominion University.
- PVCC offers an established career pathway for students in the Electronics Technology Career Studies Certificate Program to advance to PVCC’s Electronics and Computer Technology A.A.S. Degree Program.

WHAT CERTIFICATIONS CAN I EARN THROUGH THESE PROGRAMS?

Students in the electronics programs at PVCC can earn industry certifications including:



- CompTIA A+
- CompTIA IT fundamentals
- ETA EM 1-5 certification*
(*for A.A.S. program students only)

ARE THERE ANY SPECIAL ADMISSION REQUIREMENTS FOR THIS PROGRAM?

No, there are no special admission requirements except for admission to the college.

ARE THERE ANY SIMILAR OR RELATED PVCC PROGRAMS I MAY BE INTERESTED IN?

- A.S. in Engineering. Visit www.pvcc.edu/engineering to learn more.
- Career Studies Certificate in Manufacturing Technology. Visit www.pvcc.edu/manufacturing to learn more.

WHERE CAN I GET MORE INFORMATION?

Visit www.pvcc.edu/electronics or contact a faculty or academic advisor. Please see right-hand column for contact information.

NON DISCRIMINATION STATEMENT

Piedmont Virginia Community College is an equal opportunity institution providing educational and employment opportunities, programs, services, and activities. PVCC does not discriminate on the basis of age, color, disability, family medical history or genetic information, military service, national origin, parental status, political affiliation, race, religion, sex (including pregnancy and gender identity), sexual orientation, or any other non-merit base factor. The College also prohibits sexual harassment including sexual violence or misconduct. PVCC offers programs in the following vocational areas: business, construction, culinary arts, health care, police science and technology. Some of the vocational programs offer admission based on selective criteria through a separate application process that is nondiscriminatory. These programs are: Diagnostic Medical Sonography, Emergency Medical Services, Nursing, Practical Nursing, Radiography and Surgical Technology. The following person has been designated to handle inquiries regarding any of these policies: Human Resources Manager, 501 College Dr., Main Building, Room M810, Charlottesville, VA 22902; 434.961.6567.

GAINFUL EMPLOYMENT STATEMENT

Visit www.pvcc.edu/gainful for PVCC graduation rates and other gainful employment information about our programs of study.

A.A.S. DEGREE Electronics & Computer Technology

See www.pvcc.edu/electronics for the most up-to-date list of curriculum and program requirements.

First Semester (Fall)	16 credits
IND 103 Industrial Methods	1
SDV 100 College Success Skills	1
SAF 130 Industrial Safety - OSHA 10	1
ENG 111 College Composition I	3
MTH 115 Technical Mathematics ¹	3
ETR 113 DC & AC Fundamentals I	4
ETR 164 Upgrading & Maintaining PCs	3
Second Semester (Spring)	18 credits
ENG 112 College Composition II	3
ETR 114 DC & AC Fundamentals II	4
ETR 203 Electronic Devices I ²	4
ETR 156 Digital Circuits & Microprocessor Fundamentals	4
_____ Technical Elective ³	3
Third Semester (Fall)	16 credits
ETR 204 Electronic Devices II	4
ETR 237 Industrial Electronics I	3
ELE 239 Programmable Controllers	3
_____ Technical Elective ³	3
_____ Social Science Elective ⁴	3
Fourth Semester (Spring)	15 credits
ETR 238 Industrial Electronics II	3
ETR 241 Electronics Communications I	3
_____ Humanities Elective ⁴	3
_____ Technical Elective ³	3
_____ Technical Elective ³	3
Total	65 credits

¹ Students may substitute a higher-level math course to include: MTH 163, MTH 164, or MTH 173.

² ETR 203 is a Writing Intensive Course.

³ Approved Technical Electives: CAD 151; CSC 110; ETR 149; IND 113, IND 250, IND 251; ITN 101, ITN 106, ITN 260; ITP 120, ITP 132; MEC 155, MEC 161; MTH 163, MTH 164, MTH, 167, MTH 263 or higher.

⁴ For a full list of approved Humanities and Social Sciences Electives, please visit www.pvcc.edu/advising.

⁵ Approved Internship: ETR 290, ITD 290, ITE 290, ITN 290, or ITP 290.

CAREER STUDIES CERTIFICATE Electronics Technology

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Semester 1	13 credits
ETR 113 DC & AC Fundamentals I	4
MTH 115 Technical Mathematics	3
ETR 237 Industrial Electronics I	3
IND 103 Industrial Methods	1
SAF 130 Industrial Safety - OSHA 10	1
SDV 100 College Success Skills	1
Semester 2	15 credits
ETR 114 DC & AC Fundamentals II	4
ETR 156 Digital Circuits & Microprocessor Fundamentals	4
ETR 203 Electronic Devices I	4
ETR 238 Industrial Electronics II	3
Total	28 credits

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