

# Central Piedmont Community College



**ABET  
Accredited**

## **Computer Engineering Technology**

**Associate in Applied  
Science Degree  
(A40160)**

### About this program

The Associate in Applied Science (AAS) in Computer Engineering Technology program has been designed to include training in both hardware and software, emphasizing operating system concepts to provide a unified view of computer systems. The program focuses on the circuitry of computers and some programming. Coursework begins with electrical fundamentals and progressively introduces electronics, circuit simulation, solid-state fundamentals, digital concepts, instrumentation, C++ programming, microprocessors, microcomputer applications, networking, operating systems, I/O hardware interfacing, industrial applications, and data acquisition using LabView. Other coursework includes the study of various fields associated with the electrical/electronic industry.

Several opportunities for industry certifications are built into the program, which allows students to add skills to their resume. The Computer Engineering Technology curriculum provides the necessary skills to design and implement microprocessor and computer controlled equipment.

### Math Covered in this program

Precalculus

### Program Intention

This program is designed as workforce development for immediate employment after graduation and/or university transfer.

## Accreditation

This program is accredited by the [Accreditation Board for Engineering and Technology](#) (ABET).

## Degree Awarded

Upon successful completion of this program, the AAS in Computer Engineering Technology is awarded by the College.

## University Transfer

The AAS in Computer Engineering Technology degree is accepted at some colleges and universities as a significant portion of the first two years of a bachelors-level engineering technology program; however, there will be deficiencies.

## Third-party Industry Recognized Certifications

Students can sit for the following certifications:

- Cisco A+
- Cisco CCENT
- NI LabVIEW CLAD

## Employment Opportunities

Graduates should qualify for employment opportunities in electronics technology, computer service, computer networks, server maintenance, programming, and other areas requiring knowledge of electronic and computer systems as engineering assistants or either computer, electrical, or electronic technicians with job titles such as:

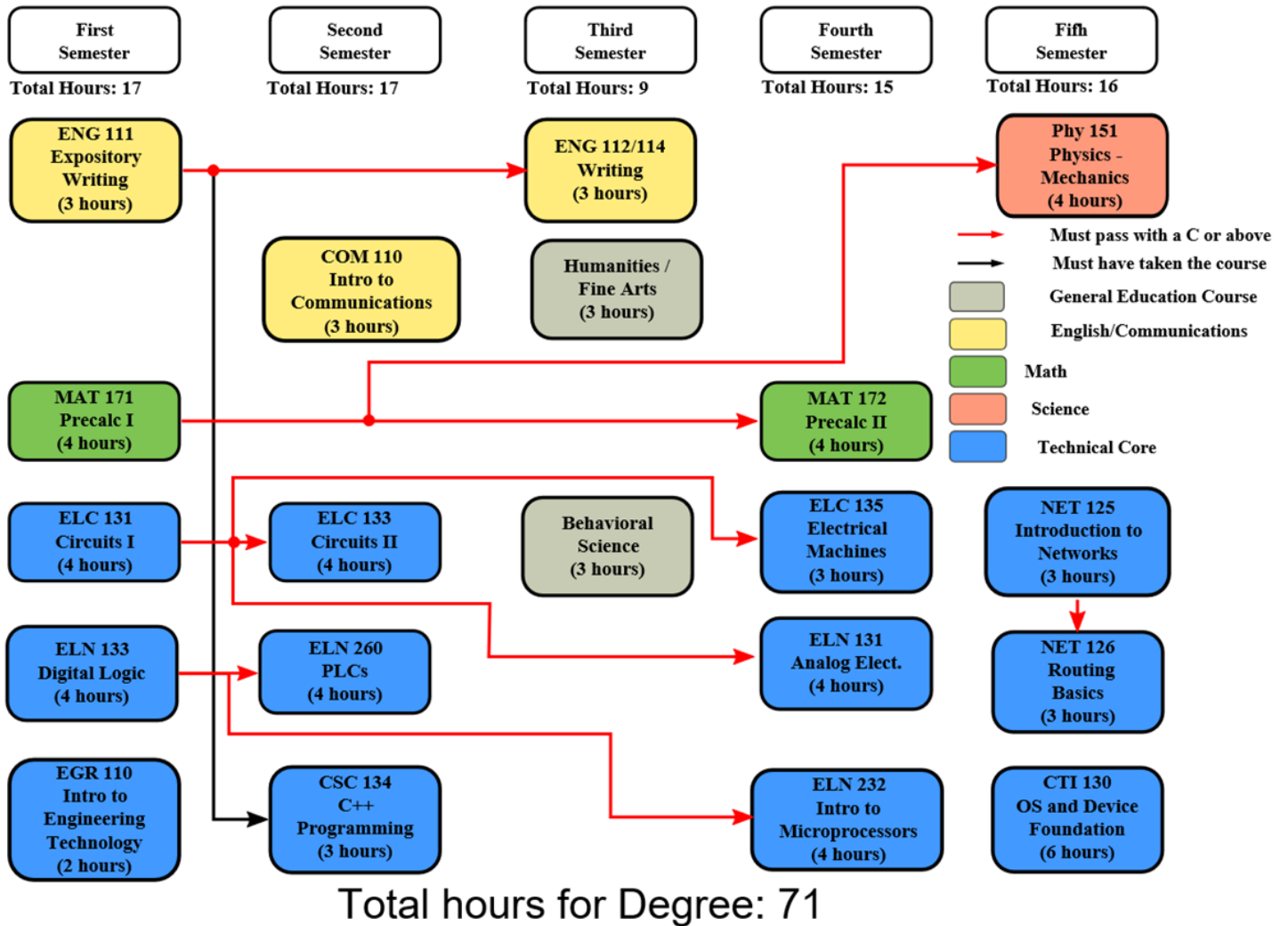
- Electronics Engineering Technician
- Maintenance Technician
- Electronic Tester
- Electronics and Instrumentation Technician
- Bench Technician
- Electronics and Instrumentation Technician
- Computer User Support Specialist
- Field Service Technician
- Communications Technician
- Electronic Systems Integrator
- Control Technician
- Electromechanical Equipment Assembler
- Computer Network Support Specialist
- Electronic Home Entertainment Equipment Installer and Repairer

## Resources

- To learn more about this program, which falls under the Engineering Technologies Division, please visit <https://www.cpcc.edu/programs/computer-engineering-technology>
- To become a student or to register, please visit <https://www.cpcc.edu/enroll>.
- If you have program-specific questions, please contact [Dennis.Leak@cpcc.edu](mailto:Dennis.Leak@cpcc.edu) (Instructor), [Eric.Easton@cpcc.edu](mailto:Eric.Easton@cpcc.edu) (Senior Program Coordinator), or Dr. [Adam.Harris@cpcc.edu](mailto:Adam.Harris@cpcc.edu) (Program Chair).
- Visit [Career Coach](#) for more career information.

If you are interested in Computer Programming, Web technologies, or Computer Networking, please visit [Computer Information Technology](#), which falls under the Information Technology Division, to view their degree options.

## Recommended Course Sequence 2019 – 2020 Catalog\*



\* Other course sequence options are available; please contact [Dennis.Leak@cpcc.edu](mailto:Dennis.Leak@cpcc.edu) (Instructor), [Eric.Easton@cpcc.edu](mailto:Eric.Easton@cpcc.edu) (Senior Program Coordinator), or Dr. [Adam.Harris@cpcc.edu](mailto:Adam.Harris@cpcc.edu) (Program Chair).

- Note 1: Each student should check his/her Program Evaluation through <https://mycollege2.cpcc.edu> for specific required course information.
- Note 2: **Financial Aid Recipients/Veterans:** benefits will **not** be awarded for courses not listed in the declared program of study.
- Note 3: Some courses might not be offered during all semesters.
- Note 4: Some courses will only be offered during specific times during a semester.
- Note 5: All information is subject to change without notice.