

## WHAT YOU WILL LEARN

Degreed individuals working in the field of electronics or those planning to enter the electronics field can use these clusters of courses at CCM to improve their technical skills. Each of the career certificates in Basic Electronics, Advanced Electronics and Digital Technology includes a balance of theory and hands-on experience.

## WHY STUDY ELECTRONICS AT CCM?

CCM faculty have extensive industrial experience and as well as many years of teaching experience. The laboratories are equipped with the latest test equipment and industrial machines found in industry. Computer-based simulation is used to reinforce the theory taught in class. This program is available through on-campus learning between lectures and laboratory for a better experience within the trade.

## WHERE YOU CAN GO!

To learn more about CCM's Career Services for certifications, visit: [www.ccm.edu/student-life/campus-services/](http://www.ccm.edu/student-life/campus-services/).

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Curriculum Checksheet: [www.ccm.edu/checksheets](http://www.ccm.edu/checksheets)

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214 Center Grove Road, Randolph, NJ 07869 • 973-328-5000 • [www.ccm.edu](http://www.ccm.edu)

## CAREER OPPORTUNITIES

The certificate of achievement is meant to augment individuals who already have earned college degrees, yet seek continued education to increase their skills in a technical area or begin a new career in a field such as electronics or digital technology.

Students are equipped for the following positions and fields:

- 3D Printing
- Appliance Technician
- Digital Electronics
- Home Entertainment Equipment
- Instrument Technician
- Laboratory Technician
- Production Technician
- Quality Inspectors
- Reliability Technician
- Telecommunications Equipment

## CONTACT INFORMATION

If you would like to speak with someone about the program, please contact:

### Engineering Technology and Engineering Science Department

973-328-5760

[engtech.ccm.edu](http://engtech.ccm.edu)

Advanced Manufacturing and  
Engineering Center, Room 104



## BASIC ELECTRONICS CURRICULUM

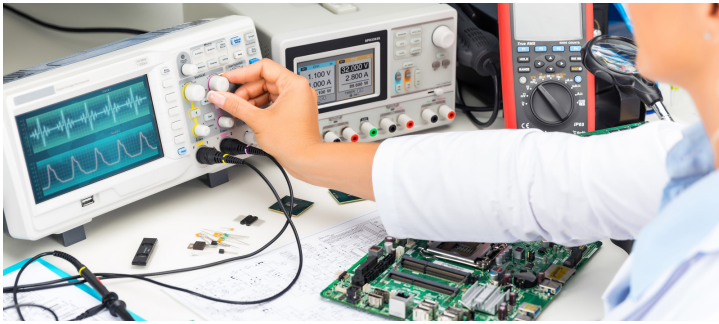


This certificate is an introduction to electronic theories and applications. It is possible to complete the certificate within three semesters and the courses fully transfer to the Electronics Engineering Technology degree.

Circuit Analysis DC/AC	ELT 100	3
Circuit Measurement	ELT 102	1
Active Circuit Components	ELT 115	3
Intro to Exp and Design	ENR 132	3
College Algebra* OR Equivalent	MAT 110	3

**TOTAL** **13**

## ADVANCED ELECTRONICS CURRICULUM

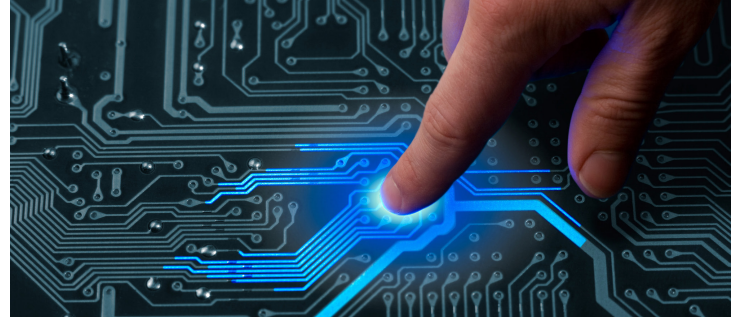


This certificate introduces the theories and techniques used in the analysis of electronic circuits. It is possible to complete the certificate within a year and the courses fully transfer to the Electronics Engineering Technology degree.

Active Circuit Design	ELT 213	4
Industrial Electronics	ELT 215	4
Electronic Communication Systems	ELT 231	4

**TOTAL** **12**

## DIGITAL TECHNOLOGY CURRICULUM



This certificate provides a strong foundation in digital theories and applications. It is possible to complete the certificate within a year and the courses fully transfer to the Electronics Engineering Technology degree.

Digital Principles	ELT 110	3
Advanced Digital & Microprocessors	ELT 209	4
Computer Science I	CMP 128	3
Routing I (CISCO)	TEL 110	3

**TOTAL** **13**

*Note: You must see a faculty advisor to plan your sequence of courses. For the most up-to-date listing of courses, see the Curriculum Checklist for this program on the CCM website at [www.ccm.edu/checksheets](http://www.ccm.edu/checksheets).*