

COUNTY COLLEGE of MORRIS

Electronics Engineering Technology



Career Opportunities

The average starting salary for graduates with an Associate's degree in Electronics Engineering Technology is \$55,000 - \$65,000.

- Engineering Technician
- Control Automation/ Technician
- Information Technology Manager (IT)
- Quality Engineer
- Senior Technical Support Engineer
- Clinical Operations Manager
- Controls Engineer
- Health Technology Management

What You Will Learn

The Electronics Engineering Technology Program at County College of Morris (CCM) prepares students for positions in electronics industries and related electronics services. Job activities center on technical problem solving and the practical application of engineering. The Electronics Engineering Technology Program produces graduates that are employed and operate effectively in the positions of technicians, I.T. developers, equipment managers and quality control operators. It also produces graduates that can successfully transfer and complete a baccalaureate degree in electronics engineering technology.

Why Study Electronics Engineering Technology At CCM?

The faculty that teach in the Electronics Engineering Program at CCM have many years of teaching and industry experience. The program has core electronic courses sequenced along with applied mathematics and science to develop a broad background in the technology. Each electronics course contains a

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Contact Information

- **Engineering Technology and Engineering Science Department**
Advanced Manufacturing and Engineering Center, Room 104
973-328-5760
- **Professor Venancio Fuentes**
Chairperson
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laboratory which utilizes modern test instruments and applies classroom theory to practical applications. In the second year of study, students interested in health-related fields may select Biomedical Equipment options. In this option, students develop a specialization in equipment used in the healthcare industry, learning how to maintain and repair the equipment.

This program is through on campus learning between lectures and laboratory for students on high-end computers and equipment.

Accreditation

This program is accredited by the Engineering Technology Accreditation Commission of ABET.

www.abet.org

Scholarship Opportunities

In addition to the general scholarships available at the college, Glenbrook Technologies, NDIA John Amerspek, NDIA Rodney Frelinghuysen, NDIA Dean Gallo, offer scholarships.

Where You Can Go!

CCM offers cooperative education, a work-study program with local electronic firms for students in the biomedical option, cooperative education opportunities are available with Atlantic Health System. Further internships are with Mecca Electronics, BASF, Honeywell, and Siemens.



Electronics Engineering Technology Curriculum

General Education Foundation (20/21 CR)

COMMUNICATION (6 CR)

English Composition I	ENG 111	3
English Composition II	ENG 112	3

MATH/SCIENCE/TECHNOLOGY (3 CR)

Computer Science I	CMP 128	3
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SOCIAL SCIENCE OR HUMANITIES (3 CR) 3

Choose a Humanities or Social Science elective from the General Education Course list (This course must also appear on the Diversity list)

GENERAL EDUCATION (8 CR)

Precalculus	MAT 123	4
Mathematics Elective		4

ELECTRONICS CORE (40 CR)

Circuit Analysis DC/AC	ELT 100	3
Circuit Measurement	ELT 102	1
Active Circuit Components	ELT 115	3
Digital Principles	ELT 110	3
Advanced Digital and Microprocessors	ELT 209	4
Electronic Fabrication	ELT 210	1
Active Circuit Design	ELT 213	4
Industrial Electronics	ELT 215	4
Electronic Communications Systems	ELT 231	4
Computer-Aided Drafting I	ENR 117	2
Intro to Exp and Design	ENR 132	3
Technical Physics I	PHY 111	4
Technical Physics II	PHY 112	4

TOTAL 60

Biomedical Equipment Option Curriculum

General Education Foundation (20 CR)

COMMUNICATION (6 CR)

English Composition I	ENG 111	3
English Composition II	ENG 112	3

MATH/SCIENCE/TECHNOLOGY (3 CR)

Computer Science I	CMP 128	3
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SOCIAL SCIENCE OR HUMANITIES (3 CR)

Choose a Humanities or Social Science elective from the General Education Course list. (This course must also appear on the Diversity list) 3

GENERAL EDUCATION (8 CR)

Human Biology	BIO 133	4
Precalculus	MAT 123	4

ELECTRONICS ENGINEERING TECHNOLOGY Biomedical Equipment Option Core (40 CR)

Circuit Analysis DC/AC	ELT 100	3
Circuit Measurement	ELT 102	1
Active Circuit Components	ELT 115	3
Biomedical Electronics	ELT 200	3
Advanced Digital and Microprocessors	ELT 209	4
Electronic Fabrication	ELT 210	1
Active Circuit Design	ELT 213	4
Industrial Electronics	ELT 215	4
Digital Principles	ELT 110	3
Biomedical Clinical Experience	ELT 227	3
Electronic Communications Systems	ELT 231	4
Intro to Exp and Design	ENR 132	3
Technical Physics I	PHY 111	4

TOTAL 60

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.