

ELECTRICAL AND AUTOMATION

Electrical and Automation Technology prepares students for exciting and well-paying career paths in the field of electrical power and automation.

www.emcc.edu/electrical

Students in the **Electrical and Automation** program will function as technicians in the field of electrical power, electronics, or automation.

- EMCC has an articulation agreement with the Electrical Engineering Technology program at UMaine. This allows Electrical and Automation graduates to easily transfer into UMaine's 4-year Electrical Engineering Technology program with junior standing.
- Graduates are eligible to sit for the State of Maine Journeyman Electrician Exam. After having passed it, as well as having met the on-the-job experience requirements of the State Electrician Examining Board, they will receive a Journeyman Electrician license.
- EMCC offers an Electricians Technology Certificate program for those students who would rather focus on residential wiring.

EMCC students enjoy small class sizes, supportive faculty, transferable courses and leadership/engagement opportunities all for under \$4,000/year.

(Most programs, based on 30 credit hours, in-state rate of \$96 per credit hour)



Free Application!
Scan this code to apply today.

 Eastern Maine Community College

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354 Hogan Rd, Bangor, ME 04401 | 207-974-4680 | emcc.edu | #WeAreEMCC

ELECTRICAL AND AUTOMATION

Associate in Applied Science Degree

Prerequisites

AAS Degree: High School level Algebra I and Algebra II required. Physics, Chemistry with Lab, and Trigonometry desired.

1ST SEMESTER (CREDITS)

CADD 101 **Introduction to CADD** (3)
ELEC 116 **DC Circuits** (3)
ELEC 176 **Programmable Controllers** (3)
ELEC 245 **Digital Electronics** (3)
Elective **Math Elective** - sequence below** (3-4)

2ND SEMESTER (CREDITS)

ELEC 123 **Power Distribution** (3)
ELEC 125 **AC Electricity** (3)
ELEC 167 **Fluid Power Technology** (3)
ELEC 173 **DC/AC Machines** (3)
ENGL 101 **College Composition** (3)

3RD SEMESTER (CREDITS)

ELEC 228 **Industrial Electronics** (3)
ELEC 241 **Linear Circuits** (3)
ELEC 296 **Automation Projects I** (3)
ENGL 201 **Business & Technical Writing** (3)
PHYS 151 **Physics I** (3)
PHYS 152 **Physics I Lab** (1)
Elective **Math Elective** - sequence below** (3-4)

4TH SEMESTER (CREDITS)

ELEC 155 **National Electrical Code** (3)
ELEC 251 **Control Systems** (3)
ELEC 298 **Automation Projects II** (3)
Elective **Any Humanities or Social Science** (3)
COMM 107 **Oral Communication** (3)

TOTAL AAS DEGREE CREDITS 64-66

** Math sequence choices:

- MATH 140 College Algebra & MAT 160 College Trigonometry
- MATH 160 College Trigonometry & MATH 155 Introduction to Statistics
- MATH 160 College Trigonometry & MATH 190 Pre-Calculus
- MATH 190 Pre-Calculus & MATH 260 Calculus I
- MATH 260 Calculus I & MAT 270 Calculus II

We have TWO residence halls on campus!



Kineo Hall houses students in “blocks” (two double-occupancy rooms with four people of the same gender) or triple-occupancy rooms. Each is individually climate controlled and shares a common bathroom, with double sinks, a shower and a toilet stall.

Acadia Hall houses students in corridor-style double or triple occupancy rooms.

A meal plan is mandatory for anyone living in residential housing on campus.

Studies show that students who live on campus not only tend to have higher GPA's, but they are also more likely to complete their education and get more out of their college experience.



Visit www.emcc.edu/housing to learn more. Apply early, space is limited!

Still in high school? Concurrent enrollment agreements with many high schools and technical education centers are available. Information can be found online at:

www.emcc.edu/academics/programs/early-college



Did you graduate from high school in 2022, 2023, or 2024 or will be graduating in 2025?

Then you may qualify for the Maine Free College Scholarship at EMCC!

Did you know EMCC has its own foundation?

Each year, our Foundation gives out over \$100,000 in scholarships to EMCC students. Visit emcc.edu/foundation to learn more and apply.

CAMPUS TOURS AVAILABLE

Call 207.974.4780 or scan this QR code to schedule an appointment!



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