

## 2024-25 ACADEMIC PROGRAMS

### INDUSTRIAL ELECTRONICS TECHNOLOGY (CFIET)

#### Certificate

The Industrial Electronics I certificate program prepares students for entry-level jobs in any of the industrial electricity/electronics cluster of occupations. Students will develop skills in the installation, maintenance, and troubleshooting of industrial control systems with a focus on programmable logic controllers, electronic sensors, and electronic control circuits.

This is a **high demand, high skill** and **high wage** program as defined by the [Michigan Community College Network](#).

#### Program Highlights

- Build a solid foundation in electricity and electronics applicable to a wide range of electricity related careers.
- Understand the hows and whys of electricity to prepare you to learn new material and solve new problems on your own.
- Work in labs with 'real world' equipment that you will see on the job - programmable logic controllers, digital multimeters, oscilloscopes, 3 phase motors, motor controllers, sensors and actuators.

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#### Description

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#### Articulation

Eastern Michigan University, several BS degrees.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: <https://www.wccnet.edu/learn/transfer-wcc-credits/articulation-agreements.php>.

#### Admissions Requirements

Students must have an Academic Math Level of 3 to enroll in ELE 111. One year of high school algebra with a grade of "C" or better is recommended.

#### Course Requirements

#### Major/Area Requirements

Class	Title	Minimum Credits
ELE 111	Electrical Fundamentals	4
ELE 211	Basic Electronics	4
ELE 224	Programmable Controllers (PLCs) I	4
ELE 254	Programmable Controllers (PLCs) II	4
Total		16

#### Total Credits Required: 16

Accurate as of 07/12/2024 Information is subject to change without notice.