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.

Do you have another career in mind? Search for careers

Description

This 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.

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

<table>
<thead>
<tr>
<th>Class</th>
<th>Title</th>
<th>Minimum Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELE 111</td>
<td>Electrical Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>ELE 211</td>
<td>Basic Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELE 224</td>
<td>Programmable Controllers (PLCs) I</td>
<td>4</td>
</tr>
<tr>
<td>ELE 254</td>
<td>Programmable Controllers (PLCs) II</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>16</td>
</tr>
</tbody>
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Total Credits Required: 16

Accurate as of 05/09/2024 Information is subject to change without notice.