INDUSTRIAL ELECTRONICS TECHNOLOGY ITC

The Industrial Electronics Technology Program provides entry level skills in basic core competencies desired by industry today. This program prepares students for work in installation, testing, and maintenance of electrical and electronic systems in industrial, scientific, and commercial facilities.

The program offers both degrees and certificates. The Intermediate Technical Certificate and Advanced Technical Certificate are mostly for persons who are already employed in industry or are considering working in industries where advancement requires them to have an upgrade of skills in the field of industrial electronics. The Associate of Applied Science degree (AAS) is for persons entering this field or for those already employed in the field and needing an upgrade of both electronic skills and academic skills (oral and written communications, mathematics, and human relations).

Potential positions include industrial electrician, instrument technician, power systems maintenance technician, electronic maintenance technician, process control technician, and electrical apprentice. Typical employers are engineering and manufacturing firms and utility companies.

Entrance requirements for students seeking enrollment in the Industrial Electronics program include:

- Students must score a 14 or higher in math on ALEKS and have a 1 or higher score on the Writing Placement Exam.
- Enrollment priority for students seeking entrance into the program is on a first-come first-serve basis as determined by the student’s faculty advising date.

### Intermediate Technical Certificate Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Technical Core</strong></td>
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<tr>
<td>IETTI-112</td>
<td>AC CIRCUIT ANALYSIS</td>
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<td>MTHPT-103</td>
<td>APPLIED ALGEBRA</td>
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<td>IETTI-101</td>
<td>BASIC ELECTRICAL PRINCIPLES</td>
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<td>IETTI-102</td>
<td>DIGITAL ELECTRONICS</td>
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<td>IETTI-103</td>
<td>INTRODUCTION TO MICROCOMPUTERS</td>
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<td>IETTI-104</td>
<td>ADVANCED ELECTRICAL PRINCIPLES</td>
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<td>IETTI-105</td>
<td>SOLID STATE DEVICES</td>
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<td>IETTI-106</td>
<td>EMBEDDED SYSTEMS</td>
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<td>IETTI-108</td>
<td>INTRODUCTION TO PLC’S</td>
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<td>IETTI-201</td>
<td>INDUSTRIAL CONTROLS I</td>
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<td>IETTI-204</td>
<td>INDUSTRIAL CONTROLS II: HUMAN MACHINE INTERFACES</td>
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<td>IETTI-205</td>
<td>ELECTRIC MOTORS, DRIVES AND CONTROLS</td>
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<td>IETTI-206</td>
<td>ELECTRIC MATERIALS AND TECHNIQUES</td>
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<td>IETTI-207</td>
<td>PROGRAM AND TROUBLESHOOT PLC’S</td>
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<td>IETTI-208</td>
<td>PLC’S SYSTEMS APPLICATIONS</td>
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### Summary

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