

# INDUSTRIAL ELECTRICAL AND ELECTRONIC TECHNOLOGY

## Certificate

Prepares students for potential employment as industrial electrical technicians or technicians in consumer electronics, telecommunications, computers, or related fields. This program requires proof of computer literacy.

Course	Number		Credit Hours
<b>GENERAL EDUCATION</b>			
ENGL	1100	Communication Skills <b>or</b>	
ENGL	1101	English Composition I	3
READ	1100	Reading Skills <b>or</b>	
ENGL	1102	English Composition II	3
MATH	1104	Applied Math <b>or</b>	
MATH	1111	College Algebra	3
<b>MAJOR FIELD COURSES</b>			
<b><u>Essential Fundamental Technical Courses</u></b>			
CAPS	1101	Introduction to Computers	3
ELCT	1005	Direct Current Circuits I	3
ELCT	1065	Alternating Current Circuits I	3
ELCT	1085	Semiconductor Devices & Circuits I	3
MFGT	1207	Industrial Safety	3
OADM	1140	Basic Keyboarding*	1
Elective		DRFT 1120, DRFT 1151	3
<b><u>Essential Specific Technical Courses</u></b>			
ELCT	1055	Digital Logic Circuits I	3
ELCT	2025	Intro to Microprocessors	3
<b>AND</b>			
<b>COMPLETION OF ONE OF THE FOLLOWING SPECIALIZATIONS</b>			
<b><u>General Electronics Technician</u></b>			
ELCT	2005	Direct Current Circuits II	3
ELCT	2065	Alternating Current Circuits II	3
ELCT	2085	Semiconductor Devices & Circuits II	2
ELCT	2045	Digital Logic Circuits II	3
<b>OR</b>			
<b><u>Industrial Electronics Technician</u></b>			
ELCT	2115	Robotics	2
ELCT	2116	Computer Integrated Manufacturing	2
ELCT	2040	Programmable Logic Controllers	3
ELCT	2075	Motors, Drives, & Controls	3
ELCT	2090	Instrument & Control Systems	2

**OR**

**Telecommunications Technician**

ELCT	2005	Direct Current Circuits II	3
ELCT	2065	Alternating Current Circuits II	3
ELCT	2045	Digital Logic Circuits II	3
ELCT	2085	Semiconductor Devices & Circuits II	2
ELCT	2125	Telecommunications Principles	3

**PHYSICAL EDUCATION**

PHED		Activity Elective	<u>1</u>
		Total	46-49

\* Credit by examination may satisfy this requirement.