



• Associate of Applied Science

About The Program

The Industrial Electronics Technology program is ideal for students interested in pursuing careers working with the latest electronic, computer and industrial control technologies. This challenging program provides an exceptionally strong foundation in electronics theory supported by extensive hands-on experience through accompanying labs. Topics include amplifier and digital circuitry, programmable logic, robotics, microprocessors, instrumentation, simulation, troubleshooting and industrial automation. Real world theory and applications are emphasized throughout the program.

Aerospace, commercial, consumer, industrial, medical, security, and transportation technologies depend on electronic systems. The operation, implementation, and design of such fields require knowledgeable technicians and technologists. Industrial Electronics Technology graduates are employed in the design, testing, installation, and troubleshooting of industrial process control systems, robotics devices, communications systems and sophisticated instrumentation.

Admission Requirements

Students are admitted to the program each semester. Students must have Program approval, a completed application, and other required information submitted by the due date. If there are openings after the application deadline, remaining openings will be filled on a "first-come" basis.

Individuals interested in the Industrial Electronics and Controls Technology program are required to fulfill the following requirements:

- College admission requirements.
- Declare their intent to enter the Industrial Electronics and Controls Technology program on the WCCCD Application for Admission or change their intent at the Admission Office.
- Course placement requirements based on COMPASS test results.
- Students must complete WCCCD Program Application during the semester they are enrolled in EE 101 Direct Current Fundamentals, 4 credit hours and submit to the Campus Academic Officer.
- Students must complete all core course work with a grade of "C" or better to meet graduation requirements.

Associate of Applied Science Degree Requirements

SEMESTER I

CT 203	Digital Logic I	4
Humanities	Elective	3
EE 101	Direct Current Fundamentals	4
ENG 119	English I	3
TOTAL CREDITS		14

SEMESTER II

ENG 134	Technical Communications	3
EE 102	Alternate Current Fundamentals	4
EE 107	Mathematics for E/E I	4
CT 205	Introduction to Microprocessors	4
TOTAL CREDITS		15

SEMESTER III

EE 105	Electronics Fabrication & Design	2
EE 115	Mathematics for E/E II	4
IEC 203	Electrical Machinery & Controls	3
Natural Science	Elective	3
TOTAL CREDITS		12

SEMESTER IV

EE 111	Solid State Fundamentals	3
IEC 202	Introduction to Robotics	3
IEC 207	Hydraulics & Pneumatics	3
PS 101	American Government	3
TOTAL CREDITS		12

SEMESTER V

EE 205	Linear Integrated Circuits	2
IEC 208	Programmable Logic Controllers	3
PHY 235	General Physics I	4
Electronics	Elective	2
TOTAL CREDITS		11

PROGRAM TOTAL CREDITS 64

* Program totals may not include prerequisite work.

District Office

801 West Fort Street
Detroit, MI 48226

General Information Number:
(313) 496-2600

Career Program Hotline:
1-800-300-2118

Information Website:
www.wcccd.edu

E-mail:
info@wcccd.edu

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