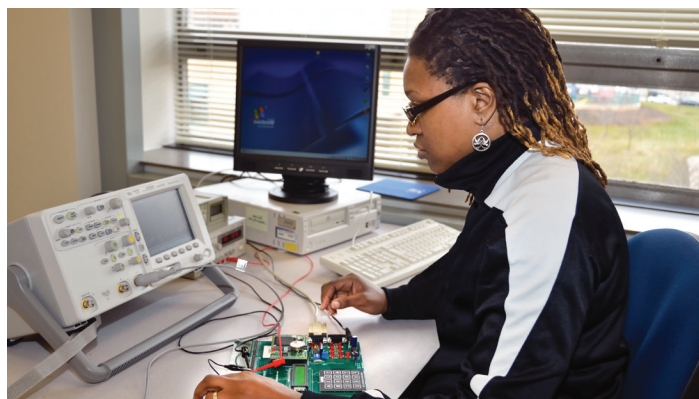# Electronic Technology – Automation

PROGRAM CODE: 10-605-1

AD
Associate Degree

Location: Downtown Milwaukee Campus

Start Dates: August and January

Admission Requirement: High school diploma or equivalent

Academic Preparedness Requirements: One year of high school-level geometry and one year of high school-level algebra, or equivalent

Financial Aid Eligible: Yes. Use code 003866 at fafsa.gov.
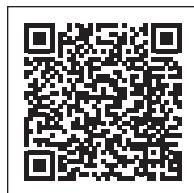
Program Description

This program features industry-relevant hands-on labs and is designed to prepare students for a variety of occupations in the field of electronics.

Career Outlook

Electronic technology is a rapidly changing field, which creates great opportunities. Skills acquired from this program provide a strong foundation to keep pace with the technology.

Program Learning Outcomes

- Apply electronic theory to practice.
- Operate test equipment.
- Build electronic circuits and systems.
- Evaluate the operation of electronic circuits or systems.
- Communicate technical information.

COURSES		CREDITS
QETECH-200	Fundamentals of Engineering	3
ELCTEC-110	DC/AC Electronics 1 ‡ ^	4
ELCTEC-130	Digital Electronics ‡ ^	3
ENG-195	Written Communication ‡ (or) ENG-201 English 1 ‡	3
MATH-115	College Technical Mathematics 1 ‡ ^	5
ELCTEC-111	DC/AC Electronics 2 ‡ ^	3
ELCTEC-120	Electronic Devices ‡ ^	4
ELCTEC-140	Microprocessors ‡ ^	3
ELCTEC-186	Fabrication Techniques ‡	1
MATH-116	College Technical Mathematics 2 ‡	4
ELCTEC-150	Data Communications and Networking ‡	3
ELCTEC-173	Computing With C ‡	3
ELCTEC-195	Motor Controls ‡	4
ELCTEC-196	PLC Systems Basic ‡	3
ENG-197	Technical Reporting ‡	3
ELCTEC-192	Fluid Power ‡	2
ELCTEC-198	PLC Systems Advanced ‡	3
ELCTEC-199	Automated Systems ‡	3
ELECTIVE	(One credit) Any 100-, 200- and/or 300-level courses in any subject. ELCTEC-100 and ELCTEC-101 are suggested	1
PSYCH-199	Psychology of Human Relations (or) PSYCH-231 Introductory Psychology	3
SOCSCI-197	Contemporary American Society (or) SOCSCI-203 Introduction to Sociology	3

CREDITS
Total credits needed to complete this degree

64

‡ Prerequisite required.

^ Counts toward earning the Electronics Technician Fundamentals technical diploma.

Program curriculum requirements are subject to change.

Current MATC students should consult their Academic Program Plan for specific curriculum requirements.

MATC courses are offered in person, entirely online or partially online. Check each course's delivery options in Self-Service at **selfservice.matc.edu**.

Official Wisconsin Technical College System program title: Electronics.

Complete Program Details
QUESTIONS? 414-297-6319 or stempathway@matc.edu