



Electronic Technology – Automation

ASSOCIATE DEGREE

Program Code: 10-605-1

Downtown Milwaukee Campus

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

Admission Requirements

- A high school diploma or GED
- One year of high school-level geometry and one year of high school-level algebra, or equivalent



matc.edu/academic_programs/pathways

You can earn the Electronics Technician Fundamentals technical diploma on your way to completing this associate degree.

 **MILWAUKEE AREA *Technical College***
School of **TECHNOLOGY** and **APPLIED SCIENCES**

TECHNICAL STUDIES

Credits

(1) ELCTEC-170	Computer Systems ‡	3
(1) ELCTEC-130	Digital Electronics ‡ ^	3
(1) ELCTEC-110	DC and AC Electronics 1 ‡ ^	4
(2) ELCTEC-111	DC and AC Electronics 2 ‡ ^	3
(2) ELCTEC-120	Electronic Devices and Circuits ‡ ^	4
(2) ELCTEC-140	Microprocessors ‡ ^	3
(2) ELCTEC-186	Fabrication Techniques ‡	1
(3) ELCTEC-150	Data Communications and Networking ‡	3
(3) ELCTEC-173	Computing With C ‡	3
(3) ELCTEC-195	Motors and Controls ‡	4
(3) ELCTEC-196	Programmable Controllers ‡	3
(4) ELCTEC-192	Basic Industrial Hydraulics and Pneumatics ‡	2
(4) ELCTEC-198	Advanced Programmable Controllers ‡ ..	3
(4) ELCTEC-199	Automated Systems ‡	3

GENERAL STUDIES

ENG-151	Communication Skills 1 ‡	3
(& ENG-152	Communication Skills 2 ‡	3
	(or) ENG-201‡ and any 200-series ENG or SPEECH course	
MATH-115	College Technical Mathematics 1 ‡ ^ ...	5
	(or) MATH-113 College Technical Mathematics 1A‡ and MATH-114 College Technical Mathematics 1B ‡	
MATH-116	College Technical Mathematics 2 ‡	4
NATSCI-137	Comprehensive Technical Physics ‡	4
	(or) NATSCI-221 College Physics 1 ‡	
PSYCH-199	Psychology of Human Relations	3
	(or) Any 200-series PSYCH course	
SOCSCL-197	Contemporary American Society	3
	(or) Any 200-series HIST or SOCSCL course	
ELECTIVES	(Three credits needed)	3

TOTAL CREDITS: 70

() Semester order for full-time students.

‡ Prerequisite required.

^ Counts toward earning the Electronics Technician
Fundamentals technical diploma.

Program curriculum requirements are subject to change.

This Associate in Applied Science program will transfer
to one or more four-year institutions.

Official Wisconsin Technical College System program
title: Electronics.

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

**For complete information, go to
matc.edu/tas**

To apply for financial aid, visit fafsa.gov
School Code: 003866

Possible Careers

- Automation and Controls Technician
- Electronic Systems Technician
- Robotics Technician
- Wind Turbine Technician

Related Programs

- Electronics Technician
Fundamentals
- Biomedical Electronics Technology
- Computer Electronics Technology
- Electronic Engineering Technology



10% Post Consumer Recycled



matc.edu or **414-297-MATC**
Wisconsin Relay System 711

Downtown Milwaukee Campus

700 West State Street

Mequon Campus

5555 West Highland Road

Oak Creek Campus

6665 South Howell Avenue

West Allis Campus

1200 South 71st Street

MATC Education Center at Walker's Square

816 West National Avenue, Milwaukee