

Computer Electronics Technology

PROGRAM CODE: 10-605-3



Associate Degree



COURSE	CREDITS
QETECH-200	Fundamentals of Engineering 3
ELCTEC-110	DC/AC Electronics 1 ‡ ^ 4
ELCTEC-130	Digital Electronics ‡ ^ 3
ENG-195	Written Communication ‡ 3 (or) ENG-201 English 1 ‡
MATH-115	College Technical Mathematics 1 ‡ ^ 5 (or) Any 200-level MATH course
ELCTEC-111	DC/AC Electronics 2 ‡ ^ 3
ELCTEC-120	Electronic Devices ‡ ^ 4
ELCTEC-140	Microprocessors ‡ ^ 3
ELCTEC-186	Fabrication Techniques ‡ 1
ENG-197	Technical Reporting ‡ 3 (or) Any 200-level ENG or SPEECH course
MATH-116	College Technical Mathematics 2 ‡ 4
ELCTEC-150	Data Communications and Networking ‡ 3
ELCTEC-173	Computing With C ‡ 3
ELCTEC-174	Hardware Systems ‡ 3
ELCTEC-178	Software Systems ‡ 3
ELCTEC-172	Input/Output Programming ‡ 3
ELCTEC-176	Computer Networks ‡ 3
ELCTEC-179	Advanced Computer Systems ‡ 3
ELECTIVE	(One credit) 1
PSYCH-199	Psychology of Human Relations 3 (or) PSYCH-231 Introductory Psychology
SOCSCI-197	Contemporary American Society 3 (or) SOCSCI-203 Introduction to Sociology

Location: Downtown Milwaukee Campus

Start Dates: August and January

Admission Requirement: High school diploma or GED and one year of high school-level algebra

Transfer: Will transfer to one or more four-year institutions

Financial Aid Eligible: Yes.

Apply at fafsa.gov. Use School Code 003866.

Program Description

Learn to develop, install, maintain, troubleshoot and repair computers and processors in manufacturing and control systems. Work with edge computers, smart sensors, and networking hardware and software. This program is manufacturing- and hardware-focused compared to IT-related programs.

Career Outlook

Outlook is strong for computer electronics technicians with skills to perform installation, configuration, upgrading and maintenance of computer and network systems, and who can develop technical software.

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.



Complete Program Details

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

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.

Official Wisconsin Technical College System program title: Electronics – Computer.