

# Biomedical Electronics Technology

PROGRAM CODE: 10-605-6



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
BIOSCI-189	Basic Anatomy ..... 3
ELCTEC-111	DC/AC Electronics 2 ‡ ^ ..... 3
ELCTEC-120	Electronic Devices ‡ ^ ..... 4 (or) ELCTEC-118 Electronic Devices Interactive
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-134	Biomedical Instrumentation ‡ ..... 4
ELCTEC-137	Biomedical Electronics Technician Practicum 1 ‡ ..... 2
ELCTEC-140	Microprocessors ‡ ^ ..... 3
ELCTEC-150	Data Communications and Networking ‡ ..... 3
SOCSCI-197	Contemporary American Society ..... 3 (or) Any 200-level HIST or SOCSCI course
ELCTEC-133	Medical Imaging Equipment ‡ ..... 4
ELCTEC-138	Biomedical Electronics Technician Practicum 2 ‡ ..... 2
ELCTEC-139	Advanced Biomedical Electronics ‡ ..... 3
ELECTIVE	(One credit) ..... 1
PSYCH-199	Psychology of Human Relations ..... 3 (or) Any 200-level PSYCH course

**Location:** Downtown Milwaukee Campus

**Start Dates:** August and January

**Admission Requirement:** High school diploma or GED, one year of high school-level algebra, criminal background check, 10-panel drug test, health exam, immunizations

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

**Financial Aid Eligible:** Yes.

Apply at [fafsa.gov](https://fafsa.gov). Use School Code 003866.

### Program Description

Through coursework and lab work focused on electrical safety, medical gas safety and the clinical application of electronics and electromechanical devices, you will prepare for a technical career in the healthcare field.

### Career Outlook

Jobs are competitive in the Milwaukee area. Employment opportunities include hospitals, equipment manufacturers and independent service organizations.

### Program Learning Outcomes

- Manage medical equipment and systems.
- Identify the function and operation of various types of imaging equipment.
- Problem-solve electronic circuits and systems.
- Demonstrate a competency with computers and networks used in medical equipment.
- Apply principles of anatomy, physiology and medical terminology.



Complete Program Details

QUESTIONS? 414-297-6319 or [stempathway@matc.edu](mailto: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.

Official Wisconsin Technical College System program title: Bio-Medical Electronics.

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