# **Biomedical Electronics Technology**

PROGRAM CODE: 10-605-6



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. 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.



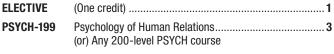
Complete Program Details QUESTIONS? 414-297-6319 or stempathway@matc.edu

# WILWAUKEE AREA **Technical College** Transforming Lives, Industry & Community

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COURSE CREDITS QETECH-200 Fundamentals of Engineering ......3 ELCTEC-110 DC/AC Electronics 1 ‡ ^.....4 ELCTEC-130 ENG-195 Written Communication ±......3 (or) ENG-201 English 1 ‡ College Technical Mathematics 1 ‡ ^......5 **MATH-115** BIOSCI-189 Basic Anatomy ......3 DC/AC Electronics 2 ± ^.....3 ELCTEC-111 Electronic Devices ‡ ^......4 ELCTEC-120 (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** (or) Any 200-level HIST or SOCSCI course ELCTEC-133 Medical Imaging Equipment ‡.....4 ELCTEC-138 ELCTEC-139



#### CREDITS

Total credits needed to complete this degree

‡ 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.

MATC is an Affirmative Action/Equal Opportunity Institution and complies with all requirements of the Americans With Disabilities Act. MATC is accredited by the Higher Learning Commission, Commission on Institutions of Higher Education, the national standard in accrediting colleges and schools for distinction in academics and student services. 2024-25



