STEM Academic & Career Pathway

Biomedical Electronics Technology

PROGRAM CODE: 10-605-6



Location: Downtown Milwaukee Campus

Start Dates: August and January

Admission Requirements: High school diploma or equivalent, criminal background check, 10-panel drug test, health exam, immunizations

Academic Preparedness Requirement: One year of high school-level algebra

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

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.
- Demonstrate safety precautions and practices with medical equipment.



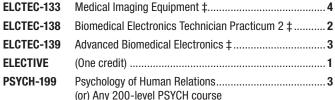
Complete Program Details QUESTIONS? 414-297-6319 or stempathway@matc.edu

VILWAUKEE AREA **Technical College** Transforming Lives, Industry & Community

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COURSES CREDITS Fundamentals of Engineering3 QETECH-200 ELCTEC-110 DC/AC Electronics 1 ‡ ^.....4 ELCTEC-130 **ENG-195** Written Communication ±......3 (or) ENG-201 English 1 ‡ **MATH-115** College Technical Mathematics 1 ‡ ^.....5 (or) take MATH-113 College Technical Mathematics 1A and MATH-114 College Technical Mathematics 1B BIOSCI-189 Basic Anatomy3 DC/AC Electronics 2 ‡ ^.....3 ELCTEC-111 ELCTEC-120 Electronic Devices ‡ ^......4 Fabrication Techniques ‡.....1 ELCTEC-186 Technical Reporting ‡......3 ENG-197 (or) Any 200-level ENG or SPEECH course **MATH-116** College Technical Mathematics 2 ‡ 4 Biomedical Instrumentation ±......4 ELCTEC-134 Biomedical Electronics Technician Practicum 1 ‡2 ELCTEC-137 ELCTEC-140 Microprocessors ‡ ^3 Data Communications and Networking ±......3 ELCTEC-150 **SOCSCI-197** (or) Any 200-level HIST or SOCSCI course ELCTEC-133



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

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