Electronic Engineering Technology

ASSOCIATE DEGREE  Program Code: 10-605-7
West Allis Campus

Gain the expertise for professional testing/repair positions in the field of electronics. Graduates have the option to continue their education at Milwaukee School of Engineering (MSOE) to pursue a Bachelor of Science degree in electrical engineering through the BSEE Transfer Track.

Career Outlook
These technicians assist engineers and producers of electronic equipment and systems, and are part of a fast-growing career area.

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
TECHNICAL STUDIES

For Job-Ready or MSOE-BSEE Transfer Track
The Transfer Track option is available directly to those entering the program calculus-ready.

(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
(3) ELCTEC-121 Advanced Electronic Devices and Circuits ‡ .......................... 3
(3) ELCTEC-150 Data Communications and Networking ‡ .. 3
(3) ELCTEC-196 Programmable Controllers ‡ .......... 3
(4) ELCTEC-141 Microcontrollers ‡ ......................... 3
(4) ELCTEC-195 Motors and Controls ‡ .......................... 4

Select Job-Ready or MSOE-BSEE Transfer Track:

JOB-READY EMPHASIS
(1) MATH-115 College Technical Math 1 ‡ ^ .................. 5
(or) MATH-230 College Algebra and Trigonometry ‡
(2) ELCTEC-131 Advanced Digital Electronics ‡ .......... 3
(2) MATH-116 College Technical Math 2 ‡ .................. 4
(4) ELCTEC-198 Advanced Programmable Controllers ‡ 3
(4) ELCTEC-176 Computer Networks ‡ .......................... 3

MSOE-BSEE TRANSFER TRACK*
(1) MATH-231 Analytic Geometry and Calculus 1 ‡ ... 5
(2) MATH-232 Analytic Geometry and Calculus 2 ‡ .... 5
(4) ELCTEC-112 DC and AC Electronics 3 ‡ .......... 3
(4) ELCTEC-124 Electronic Circuit Analysis ‡ .......... 3

GENERAL STUDIES

ECON-195 Economics (MSOE track) (or) ECON-201 (MSOE track) (or) ECON-202 (MSOE track)* 3
ENG-151 Communication Skills 1 ‡ .......................... 3
ENG-152 Communication Skills 2 ‡ .......................... 3
(Needs one additional credit to meet minimum credit requirements)
NATSCI-137 Comprehensive Technical Physics ‡ .... 4
PSYCH-199 Psychology of Human Relations ........... 3
SOCSCI-197 Contemporary American Society ........... 3
ELECTIVES (Job-ready: Three credits needed)........... 3
(MSOE track: Five credits needed)* .......................... 5

TOTAL CREDITS: 70

*73 credits needed for MSOE Transfer Track program


For complete information, go to matc.edu/tas
To apply for financial aid, visit fafsa.gov
School Code: 003866

Possible Careers
• Electronic Test Technician
• Manufacturing Test Technician
• Quality Control Technician
• Repair and Installation Technician
(For full description, see matc.edu.)

Related Programs
• Electronics Technician Fundamentals
• Biomedical Electronics Technology
• Computer Electronics Technology
• Electronic Technology – Automation
• Advanced Manufacturing Technology

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. REV 2019/20