Application Process

MTC Application for Admission and nonrefundable applicable fee.

1. Final high school transcript (or GED results) and college transcripts (if applicable).
2. Successful completion of the Basic Skills Assessment (ACCUPLACER) and Technology Skills Test (TST) is required. Any college foundation courses recommended by placement results are also required.
3. ACCUPLACER math score of 41 or above required to take the first mathematics course in the engineering program.

Career Opportunities

- Electrical and Electronics Engineering Technician
- Electrical and Electronics Repairer
- Electrical and Electronics Equipment Assembler
- Electrical and Electronics Drafter

Degree Received Associate of Applied Science

Two-year full-time degree schedule; mixture of core engineering, mathematics, CAD, and communications courses; program can be completed on a part-time basis.

For More Information:

Admission Office
Marion Technical College
1467 Mt Vernon Avenue
Marion, OH 43302
Email: enroll@mtc.edu
740.389.4636

The Program – Electrical Engineering Technology

The Electrical Engineering Technology graduate will be equipped with knowledge in electrical and electronics engineering. They will receive systematic training in electrical power supply, electrical equipment, motors/motor drive, PLCs, Robots, human machine interface (HMI) and industrial Ethernet. The comprehensive study in this program will support efforts in building their careers in areas such as electrical power engineering and automation engineering.

Graduates of this program will be able to...

- analyze, interpret and troubleshoot DC and AC electric circuits
- analyze, interpret and troubleshoot digital and analog electronic circuits
- develop and interpret electrical diagrams for installation and troubleshooting
- select and use various electrical tools and instruments such as the digital multimeter, oscilloscope and function generator
- identify and explain the operation of the basic components in an electric power generation, transmission and distribution system
- program, interface and troubleshoot systems controlled by programmable logic controllers
- program, operate and troubleshoot industrial robots
- follow required electrical and environmental safety procedures
- Utilize data analysis techniques for process analysis and improvement.
- Work both independently and as an integral part of a technical team.
- Communicate effectively with customers, suppliers, and co-workers.

Cooperative Education

Cooperative education is a learning experience that integrates academic skills with workplace experience. Students in Engineering Technologies can earn college credit, make valuable professional contacts, and link their classroom studies to real-world workplace challenges. See the department dean or an academic advisor for details.

To Learn More Visit

www.mtc.edu
### ELECTRICAL ENGINEERING TECHNOLOGY

**Associate of Applied Science Degree**  
*(Effective Academic Year 2018-19)*

<table>
<thead>
<tr>
<th>Course No</th>
<th>Course Title</th>
<th>Credits</th>
<th>TECHNICAL</th>
<th>NON-TECHNICAL</th>
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<td>(30-35 CrHr)</td>
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#### FIRST SEMESTER (Fall)
- **GET1000** Introduction to Engineering 2 2  [OES001] FA, SP Placement or ENG0970
- **EET1000** Introduction to Electricity 2 2  FA, SP Placement or ENG0970
- **EET2010** Introduction to Programmable Controllers 2 2  FA, SP EET1000
- **EET2400** Robotics I 2 2  FA, SP EET1000
- **MET1010** Technical Drawing with CAD 3 3  FA, SP Placement or ENG0970
- **TMT1110** Applied Technical Math 3 3  FA, SP Placement or MTH0920
- **OIS1240** Computer Applications 3 3  [OBU003] ALL OIS1200 or Placement

#### SECOND SEMESTER (Spring)
- **EET1210** Digital Circuits 4 4  [OET002] and [CTEET002] SP Placement or MTH0990
- **EET1500** Circuit Analysis I 3 3  [OET001] SP EET1000
- **ENG1000** English Composition I 3 3  [TME001] ALL OIS1220 or OIS1240 or concurrent, and Placement
- **PHY1110** Applied Physics 4 4  SP TMT1010
- **MTH1245** College Algebra 3 3  ALL MTH0920 or MTH1150 or Placement

#### THIRD SEMESTER (Fall)
- **EET1550** Circuit Analysis II 3 3  [OET003] FA EET1500, TMT1110
- **EET2060** Advanced Programmable Controllers 3 3  FA, SP EET2010
- **EET2460** Robotics II 3 3  FA, SP EET2400
- **EET2200** Electrical Distribution Systems 2 2  FA EET1500
- **ENG1400** Oral Communications 3 3  [TMCOM] ALL None
- **HSS2020** Ethnic & Cultural Diversity 3 3  [OCM004] [TMSBS] ALL Placement or ENG0970

#### FOURTH SEMESTER (Spring)
- **EET2300** Electronics 4 4  [OET005] SP EET1550
- **EET2510** Automated Process Control 3 3  SP EET2400
- **GET2300** Engineering Statistics 2 2  [OES004] SP MTH1245 and OIS1240
- **GET2700** Engineering Cooperative Work & Experience 1 1  ALL Dept Approval
- **SOC0000** Sociology Elective 3 3  ALL Course requirements

**Credit Hour Total**: 64