

Electrical Engineering Technology — Smart Manufacturing Option



Associate of Applied Science

About the Program

The Smart Manufacturing option will equip graduates with key skills in both instrumentation and controls engineering and information technology. Students will learn to install, operate, troubleshoot, and maintain automated systems. These systems will make use of networks of advanced sensors, data analytics, and information and communication technologies to improve manufacturing productivity. After completing the program, students will be able to build careers in areas such as electrical and electronics engineering and instrumentation and controls engineering.

Length of program

4 semesters | 64 credits

Program Contact

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Application requirements and eligibility may vary by program.

Marion Technical College is accredited by the Higher Learning Commission. MTC is also accredited by the Accreditation Commission for Education in Nursing. In addition, MTC is approved by the Ohio Board of Nursing, Ohio Bureau of Vocational Rehabilitation, the Ohio College Association, the Ohio State Department of Vocational Education, and the State Approving Agency for Veteran Training.

Marion Technical College is an equal opportunity educational institution and employer.

2021-22 Curriculum

Per program policy, a minimum grade of "C" is required to pass all EET courses.

SEMESTER 1

| Course No. | Course Title | Credits |
|------------|--|---------|
| GET1000 | Intro to Engineering | 2 |
| EET1000 | Introduction to Electricity | 2 |
| EET2010 | Intro to Programmable Controllers | 2 |
| EET2400 | Robotics I | 2 |
| TMT1110 | Applied Technical Math | 3 |
| OIS1240 | Computer Applications | 3 |
| SMT1100 | Cyber Security and Networking in Manufacturing | 3 |

SEMESTER 2

| Course No. | Course Title | Credits |
|------------|-----------------------------|---------|
| EET1210 | Digital Electronics | 4 |
| EET1500 | Circuit Analysis I | 3 |
| ENG1000 | English Composition I | 3 |
| PHY1110 | Applied Physics | 4 |
| SMT1200 | Instrumentation and Control | 2 |

SEMESTER 3

| Course No. | Course Title | Credits |
|------------|-----------------------------------|---------|
| EET1550 | Circuit Analysis II | 3 |
| EET2060 | Advanced Programmable Controllers | 3 |
| COM1400 | Oral Communication | 3 |
| SOC2020 | Ethnic and Cultural Diversity | 3 |
| BUS2800 | Career Readiness | 1 |
| MTH1245 | College Algebra | 3 |

SEMESTER 4

| Course No. | Course Title | Credits |
|------------|---|---------|
| EET2300 | Analog Electronics | 4 |
| EET2510 | Automated Process Control | 3 |
| GET2300 | Engineering Statistics | 2 |
| SMT2800 | Smart Manufacturing Capstone Project | 2 |
| GET2700 | Engineering Cooperative Work Experience | 1 |
| SOC1200 | Sociology | 3 |
| Or | | |
| PSY1100 | Introduction to Psychology | 3 |

To begin the enrollment process visit mtc.edu/admissions or contact us at enroll@mtc.edu