

## Michigan Technological University

### Minor in Data Acquisition and Industrial Control

Program Code TDAC, Academic Year 2026-2027

College of Computing

Minimum Credits Required: 18

#### Required Courses: 6 Credits

- EET 4253 Data Acquisition and Signal Processing (3) *Prereqs: EET 3131*
- EET 3373 Introduction to Programmable Controllers (3) *Prereqs: EET1411 or EET2121 or EET2411 or EE2111 or EE2174 or EE3010 or PH2230*

#### Required Course: Select one option for 3 to 4 credits

- EE 2112 Electric Circuits II and Lab (4) *Prereqs: EE2111 and (MA3520 or MA3521 or MA3530 or MA3560)*
- EE 3010 Circuits and Instrumentation (3) *Prereqs: none*
- EET 1121 (3) Circuits I *Prereqs: MA 1031 or MA 1032 or MA 1120 or MA 1121(C) or MA 1160(C) or MA 1161(C) or MA 1135(C)*
  - **and** EET 1122 (1) Circuits I Lab *Prereqs: MA 1031 or MA 1032 or MA 1120 or MA 1121(C) or MA 1160(C) or MA 1161(C) or MA 1135(C)*

#### Elective Courses: Select 8 to 9 additional credits from the list below

- CEE 3502 Environmental Monitoring and Measurement Analysis (3) *Prereqs: MA2160 and CH1112 or (CH1150 and CH1151)*
- CM 3310 Process Control (3) *Prereqs: (MA3520 or MA35321 or MA3530 or MA3560) and PH2200 and CM2110*
- EET 4144 Real-Time Robotics Systems (4) *Prereqs: EET1411 or EET2121 or PH2230 or EE2111 or EE3010*
- EET 4147 Industrial Robotic Vision Systems (4) *Prereqs: EET 4144*
- EET 4311 Control Systems (4) *Prereqs: EET3225*
- EET 4373 Advanced Programmable Controllers (4) *Prereqs: EET3373 or EE3373*
- GE 4250 Fundamentals of Remote Sensing (3) *Prereqs: PH2200 and MA2160*
- MEEM 3911 Mechanical Engineering Practice IV (3) *Prereqs: MEEM2911 and MEEM3901*
- MEEM 4701 Analytical & Experimental Modal Analysis (4) *Prereqs: MEEM3750*
- SU 4010 Geospatial Concepts, Technologies, and Data (3) *Prereqs: none*