

Michigan Technological University
Minor in Data Acquisition and Industrial Control
Program Code TDAC, Academic Year 2023-24
College of Computing
Total Credits Required: 18

Required Courses: 6 Credits

Note: EET3131 is offered in the spring semester, and EET3373 is offered in the fall semester

- EET 3131 Sensors and Instrumentation (3) *Prereqs: EET 1411 or EET2121 or PH2230 or PH2111 or EE3010*
 - or 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 only one course 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 1411 Basic Electronics (4) *Prereqs: MA1031 or MA1032 or MA1120 or MA1121 or MA1135 or MA1160 or MA1161*

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 4141 Microcontroller Interfacing (4) *Prereqs: EET2411 or CS1111*
- 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*
- UN 4000 Earth and Space Sciences Seminar (1-2) *Prereqs: none*