Michigan Technological University  
Minor in Manufacturing Systems  
Program Code EMSM, Academic Year 2024-25  
College of Engineering  
Total Credits Required: 18

Required Courses: 13 Credits

- MET 3500 Manufacturing Processes (4)  \textit{Prereqs: MSE2100 and MET2153}
- MET 4510 Lean Manufacturing and Production Planning (3)  \textit{Prereqs: none}
- MET 4550 Computer Aided Manufacturing (3)  \textit{Prereqs: MET2153 and MET2400}
- MET 4780 Advanced Manufacturing (3)  \textit{Prereqs: MET3500}

Elective Courses: 5 credits

- EET 3373 Introduction to Programmable Controllers (3)  \textit{Prereqs: EET1411 or EET2121 or PH2230 or EE2111 or EE3010 or EET2411 or EE2174}
- EET 4144 Real-Time Robotics Systems (4)  \textit{Prereqs: EET1411 or EET2121 or PH2230 or EE2111 or EE3010}
- EET 4147 Industrial Robotic Vision Systems and Advanced Teach Pendant Programming (4)  \textit{Prereqs: EET4144}
- EET 4373 Advanced Programmable Controllers (4)  \textit{Prereqs: EET3373 or EE3373}
- MET 4210 Applied Quality Techniques (3)  \textit{Prereqs: MA2720(C) or MA3710(C)}
- MET 4355 Industrial Systems Simulation (3)  \textit{Prereqs: none}
- MET 4585 Facilities Layout and Safety Design (3)  \textit{Prereqs: none}