on relay ladder logic techniques and how the PLC is connected to external components in an operating control system. State-of-the-art software is used, including MultiSim, LabView, Cosivis, Veep, and RS Logix 500. Course covers: input/output ports, continuous process control, timing and counting functions, chaining sequences, and digital gate logic. Computer Aided Analysis and Design. Three credits.

**MF 454  Product and Process Design for Manufacturing**

Students learn the principles of product design for optimizing product manufacture and assembly - an essential part of the concurrent engineering process. The course examines materials and processes used in part manufacture and designing for manual and automated assembly processes. A course project applies these principles. (Prerequisite: ME 311 or equivalent) Three credits.

**MF 461  Automation and Robotics I**

This course introduces the basic elements of automation, industrial robotics, automated work cells, common information model systems, and the automated factory. Topics include kinematics, dynamics, the classification of robots, automation sensors, work cells, import systems and programming, robot/system integration, economic justification, and applications. (Prerequisite: ME 203 or equivalent) Three credits.

**MF 462  Automation and Robotics II**

This course introduces components of the automated factory. Topics include design of parts and processes for automation, hard and flexible automation, blocks of automation, automatic production and assembly, numeric controllers, computer-aided design/computer-aided manufacturing, industrial logic control systems, programmable logic controllers, and computer applications in automation. (Prerequisite: MF 361 or equivalent) Three credits.

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