Maintenance Mechanics (MM)

MM 051A Intro. to Industrial Mechanics (3)

Class Hours: *36 Lecture | 54 Laboratory*

Corequisite(s): *MM 051B*

Introduction to Industrial Mechanics

MM 051A provides students with the fundamental knowledge and skills necessary for mechanical systems including, hand and power tool use, precision measurement tools, power transmission systems, hydraulic systems, pneumatic systems, centrifugal pumps, and lubrications.

MM 051B Mathematics for Machine Tech. (3)

Class Hours: *54 Lecture*

Mathematics for Machine Technology

MM 051B is an interactive course that explores mathematics for machine technology. Students use hand tools, industrial components and mechanical drive systems to explore how the mathematical concepts and topics established in general arithmetic processes, fundamental algebra, fundamental plane geometry, geometry areas and volumes, and fundamental trigonometry apply to industrial machine technology.

MM 051C Electrical for the Industrial (3)

Class Hours: *36 Lecture | 54 Laboratory*

Electrical for the Industrial Mechanic

MM 051C is an interactive course that explores electrical systems in the manufactuing plant. Students use hand tools, industrial components and mechanical drive systems to explore how to install, test and inspect electrical components. Additionally the concepts and codes will be introduced showing how complex systems come together creating a safe environment for employees, operators and mechanics in the industrial plant.

MM 051D Power Transmission Systems 1 (3)

Class Hours: *36 Lecture | 54 Laboratory*

Advisory(s): *MM 051A (Recommended, Previous or concurrent).*

Power Transmission System 1

MM 051D provides students with an in-depth look and hands on experience with new mechanical drives concepts and componenets V-belt driven systems, chain driven systems, spur gears as part of a system and multiple shaft driven systems and using hand and power tool use, precision measurement tools to align, measure and build documentation for preventive maintenance monitoring.

MM 051E Hydraulic & Pneumatic Syst. 1 (3)

Class Hours: *36 Lecture | 54 Laboratory*

Advisory(s): *MM 051A and MM 051B*

Hydraulic and Pneumatic Systems 1

MM 051E provides students with an in-depth look and hands on experience with hydraulic and pneumatic theory, components and systems using hand and power tools, precision measurement tools and schematics to explore the functionality and control of hydraulic and pneumatic systems.

MM 051F Pump Systems 1 (3)

Class Hours: *36 Lecture | 54 Laboratory*

Advisory(s): *MM 051A and MM 051B*

Pump Systems 1

MM 051F provides students with an in-depth look and hands on experience with centrifugal pump theory, components and systems including single and multiple pump systems. Additionally students using hand and power tools, precision measurement tools and schematics to explore the functionality and controls hydraulic and pneumatic systems.

MM 054 Welding Fundamentals (3)

Class Hours: *36 Lecture | 54 Laboratory*

Welding Fundamentals

MM 054 covers basic metallurgy and properties of metals, oxyacetylene weldng and cutting processes arc welding, and safety within the work environment.