Maintenance Mechanics (MM)

MM 051 Introduction to Manufacturing (0.5)

Class Hours: *9 Lecture* *P/NP*

Transfers to: *Not transferable*

Introduction to Manufacturing

This course provides an introduction to careers in manufacturing. Topics include local job market, pay scales, and an introduction to basic mechanical skills required throughout the industrial areas. Safety and safe work environment will be stressed. (AA/AS)

MM 052A Trade Mathematics (1)

Class Hours: *18 Lecture* *P/NP*

Transfers to: *Not transferable*

Trade Mathematics

This course presents trade-related math and calculations. The use of metric system of weights and measures, arithmetic application of integers and fractions, along with ruler and caliper readings commonly used in manufacturing trades.

MM 052B Comp Fund for Maintenance Mech (0.5)

Class Hours: *27 Laboratory* *P/NP*

Transfers to: *Not transferable*

Comp Fund for Maintenance Mechanics

This course is an introduction to computers, their use, and basic use of popular software packages used in the agriculture maintenance mechanic industry.

MM 052C Job Preparation (0.5)

Class Hours: *27 Laboratory* *P/NP*

Transfers to: *Not transferable*

Job Preparation

This course guides students in preparing resumes, portfolios, and improving employment-seeking skills for careers within the agricultural maintenance mechanic industry.

MM 052D Technical Report Writing (0.5)

Class Hours: *27 Laboratory* *P/NP*

Transfers to: *Not transferable*

Technical Report Writing

This courses covers the basics of technical report writing as applied to the agricultural industry.Students will identify and write various types of reports, analyze data, and record information that are associated with production work.

MM 053A Fluid Power Fundamentals (0.5)

Class Hours: *9 Lecture* *P/NP*

Transfers to: *Not transferable*

Fluid Power Fundamentals

This course is designed to provide the learner with knowledge and working skills needed in the areas of Fundamentals of Fluid Power,physics principles pertaining to Fluid Power, various differences in hydraulics and pneumatics, and characteristics of liquids and gases. This course will particularly focus on the origins of the fluid power industry.

MM 053B Pneumatic Fundamentals (0.5)

Class Hours: *27 Laboratory* *P/NP*

Transfers to: *Not transferable*

Pneumatic Fundamentals

This course covers theory and application in the operation, service, and function of pneumatic systems. The design and application of systems in agricultural environments will be covered.

MM 053C Hydraulic Fundamentals (0.5)

Class Hours: *27 Laboratory* *P/NP*

Transfers to: *Not transferable*

Hydraulic Fundamentals

This course covers theory and application in the operation, service and function of hydraulic systems. The design and application of systems in agricultural environments will be covered.

MM 054A Power Transmission (0.5)

Class Hours: *9 Lecture* *P/NP*

Transfers to: *Not transferable*

Power Transmission

This is a course in the study and application of chains, belts, gear trains and augers.

MM 054B Welding Fundamentals (0.5)

Class Hours: *27 Laboratory* *P/NP*

Transfers to: *Not transferable*

Welding Fundamentals

This course covers basic metallurgy and properties of metals, oxyacetylene welding and cutting proceses, arc welding, and safety within the work.

MM 054C Electric Fundamentals (0.5)

Class Hours: *27 Laboratory* *P/NP*

Transfers to: *Not transferable*

Electric Fundamentals

This course introduces the basics of electrical funadamentals, AC circuitry, as well as an introduction to motor control and programmable logic controller concepts.