

# MILLWRIGHT (MWRT)

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## **MWRT 111, MILLWRIGHT TOOLS AND EQUIPMENT 2 (3)**

This course covers the use of measuring instruments (micrometers, calipers, gauges, pressure gauges, and other instruments); the selection and use of rigging tools; metrics, fiber and wire ropes, tackle block, and slingchains in moving and installing machinery; principles of equilibrium in 3D space; and the selection and use of wood and metal working tools used by millwrights. Laboratory required. (A special fee will be assessed.)

**General Education:** IN1

**Course Entry Requirement(s):** Course placement policy: Grade of C or higher in MTHM 033 or satisfactory placement assessment in mathematics

## **MWRT 114, PLANT LAYOUT AND INSTALLATION 2 (3)**

This course covers plant layout print reading, machinery, aligning, and balancing using rigging tools and equipment such as hoists, catwalks, platforms, suspended scaffolds, and cranes. Installation of pumps and wall-mounted equipment will also be covered. Selection and use of structural materials, millwright tools, and equipment in accordance with OSHA regulations will be studied. Laboratory required. (A special fee will be assessed.)

**General Education:** IN1

**Course Entry Requirement(s):** Course placement policy: Grade of C or higher in MTHM 033 or satisfactory placement assessment in mathematics

## **MWRT 211, MECHANICAL POWER TRANSMISSION SYS 2 (3)**

This course covers the fundamental principles, operational practices, installation procedures, and maintenance scheduling of mechanical power transmission systems used in industry. Laboratory exercises include selection of mechanical power units, drive components, shaftings, and structural materials from manufacturer's catalogs and standard specifications. Laboratory required. (A special fee will be assessed.)

**General Education:** IN1

**Course Entry Requirement(s):** Prerequisite: MWRT 111