

# MATH FOR TRADES (MATT)

This is a list of the Math for Trades (MATT) courses available at KPU.

## **MATT 1002** **.5 Credits** **Math for Building Trades 1**

First-year apprenticeship students in masonry and carpentry will learn the basic math needed for those trades.

## **MATT 1004** **.5 Credits** **Math for Building Trades 2**

Second-year apprenticeship students in masonry and carpentry will learn the measurement skills and related formulas needed for those trades.

*Prerequisites: MATT 1002*

## **MATT 1006** **.5 Credits** **Math for Building Trades 3**

Third-year apprenticeship students in masonry and carpentry will learn the estimating skills and related formulas needed for those trades.

*Prerequisites: MATT 1004*

## **MATT 1008** **.5 Credits** **Math for Building Trades 4**

Fourth-year apprenticeship students in masonry and carpentry will review all the math skills needed for those trades. They will also learn the math and science underlying safe use of job-related rigging and lifting machines.

*Prerequisites: MATT 1006*

## **MATT 1010** **1.5 Credits** **Math for Entry Level Building Trades**

Entry-level students in masonry and carpentry will learn the basic math needed for those trades. They will also learn the math and science underlying safe use of job-related rigging and lifting machines.

*Prerequisites: ABEM 0008 or MATP 1008 or Essentials of Math 11 (C) or assessment*

## **MATT 1015 (formerly MFAB 1106)** **3 Credits** **Mathematics/Science for Manufacturing and Mechanical Trades 1**

Students will learn to use whole numbers, decimals, fractions, proportions, percentages, equations, formulas, measurement, geometry, Pythagoras' theorem and right angle trigonometry in the context of manufacturing and mechanical trades. They will apply electrical, metallurgical, and other scientific principles and will be prepared to the National Occupational Analysis standard for these trades.

*Prerequisites: ABEM 0008 or MATP 1008 or Vocational Placement Test*

## **MATT 1025 (formerly MFAB 1205)** **3 Credits** **Mathematics/Science for Manufacturing and Mechanical Trades II**

Students will apply the principles of geometric constructions, Pythagoras' theorem, and trigonometry to the manufacturing and mechanical trades, and will use these principles to solve fabrication layout problems and to estimate manufacturing costs using industry-standard methods. They will apply electrical, metallurgical, and other scientific principles. Students will be prepared to the National Occupational Analysis standard for these trades.

*Prerequisites: MATT 1015 or MFAB 1105 or MFAB 1106 or permission of the instructor*

## **MATT 1081** **1.5 Credits** **Basic Mathematics for Welders**

Welding students in level C will learn the basic math skills needed in this trade. They will learn to apply these skills in various situations, including calculations for safe rigging and lifting.

*Prerequisites: ABEM 0008 or MATP 1008 or MATQ 1091 or Essentials of Math 11 (C) or Apprentice & Workplace Mathematics 11 (C) or assessment*  
*Not Transferable*