MATHEMATICS QUALIFYING (MATQ)

This is a list of the Mathematics Qualifying (MATQ) courses available at KPU.

Note:

These courses are not at the post-secondary level and therefore are not eligible for Education Tax Credit or Tuition Tax Credit (T2202A).

These courses meet the criteria of Adult Basic Education, and are therefore tuition-free for domestic students (Canadian citizens and permanent residents). Regular student fees and student association fees apply.

MATQ 0001 CR-0 (formerly ABEM 0001)
Adult Literacy Fundamental Mathematics Level 1
Students will learn beginning math concepts including addition and subtraction without carrying or borrowing, rounding whole numbers, ordering whole numbers to 100, counting by 2's, 5's, 10's up to 100, estimating time, applying addition and subtraction in real life situations, identifying geometric figures, recognizing time concepts (i.e., a.m./p.m., hours, min, sec.).

Prerequisites: ACP Math Assessment
Transferable (refer to transfer guide)

MATQ 0002 CR-0 (formerly ABEM 0002)
Adult Literacy Fundamental Mathematics Level 2
Students will learn addition and subtraction with carrying and borrowing, round whole numbers, order numbers using greater than, less than, and equal. Students will learn multiplication of a single digit by multiple digits, making change, telling time, adding time, and solving problems using perimeter of squares and rectangles.

Prerequisites: MATQ 0001 or ABEM 0001 or ACP Math Assessment
Not Transferable

MATQ 0003 CR-0 (formerly ABEM 0003)
Adult Literacy Fundamental Mathematics Level 3
Students will learn the divisibility rules for 2, 3, 5, and 10. Students will learn to multiply and divide larger numbers. Students will learn to add and subtract time and learn to make change. Students will find areas and perimeters of squares and rectangles.

Prerequisites: MATQ 0002 or ABEM 0002 or ACP Math Assessment
Not Transferable

MATQ 0004 CR-0 (formerly ABEM 0004)
Adult Literacy Fundamental Mathematics Level 4
Students will learn to add, subtract, multiply, and divide decimals. Students will apply decimal calculations to various problems including area, perimeter, metric measurement, record keeping, and unit pricing.

Prerequisites: MATQ 0003 or ABEM 0003 or ACP Math Assessment
Not Transferable

MATQ 0005 CR-0 (formerly ABEM 0005)
Adult Literacy Fundamental Mathematics Level 5
Students will learn to add, subtract, multiply, and divide fractions and mixed numbers. Students will also convert between fractions and decimals.

Prerequisites: MATQ 0004 or ABEM 0004 or ACP Math Assessment
Not Transferable

MATQ 0006 CR-0 (formerly ABEM 0006)
Adult Literacy Fundamental Mathematics Level 6
Students will learn ratio, rate, proportion, percentage, and descriptive statistics.

Prerequisites: MATQ 0005 or ABEM 0005 or ACP Math Assessment
Not Transferable

MATQ 0010 CR-3 (formerly ABEM 0010)
Intermediate Mathematics (Math 10)
Students will briefly review fundamental arithmetic and descriptive statistics. They will focus on a study of algebra, word problems, graphs, measurement, geometry and right-triangle trigonometry, with an introduction to logic and sets. Students will upgrade their mathematics skills and understanding in preparation for an applied or academic program.

Prerequisites: MATQ 0008 or ABEM 0008 or MATQ 0009 or ABEM 0009 or MATP 1009 or MATQ 1091 or ACP Assessment or Mathematics Placement Test
Not Transferable

MATQ 0011 CR-3 (formerly ABEM 0011)
Advanced Mathematics (Math 11)
Students will learn algebra and trigonometry, with an emphasis on problem-solving. They will be introduced to functions, systems of equations, quadratic and exponential functions, inequalities, radical expressions, complex numbers, and the sine and cosine laws.

Prerequisites: MATQ 0010 or ABEM 0010 or MATP 1010 or MATQ 1092 or ACP Assessment or Mathematics Placement Test.
Transferable (refer to transfer guide)

MATQ 0027 CR-0
Directed Study: Math
Students will work on a variety of units taken from other ABE math courses at the Intermediate or Advanced level. The student and instructor will draw up a list of units appropriate to the student's needs.

Prerequisites: ACP Assessment
Not Transferable

MATQ 1091 CR-3
Basic Mathematics
Students will briefly review fundamental arithmetic. They will then study the following topics in beginning algebra: introductory statistics, signed numbers, evaluation of expressions, solution of equations and inequalities, and word problems with one variable. They will also learn basic geometry, introductory trigonometry, and measurement with an emphasis on metric conversion.

In the event of a discrepency between this document and the official KPU 2013-14 Calendar (available at www.kpu.ca/calendar/2013-14), the official calendar shall be deemed correct.

2013-14 Calendar

www.kpu.ca/calendar/2013-14

MATQ 1092 CR-3 (formerly MATP 1010)
Introductory Algebra
Students will briefly review fundamental arithmetic and descriptive statistics. They will focus on a study of algebra, word problems, graphs, measurement, geometry and right-triangle trigonometry, with an introduction to logic and sets. Students will upgrade their mathematics skills and understanding in preparation for an applied or academic program.

Prerequisites: Math 10 (C) or Applications or Principles of Mathematics 11 (P) or ABEM 0009 or MATP 1009 or MATQ 1091 or ABEM 0008 or ACP Assessment Test or Mathematics Placement Test

MATQ 1093 CR-3
Intermediate Algebra
Students will study algebraic concepts and methods, making use of them in problem solving. They will study polynomial, exponential, logarithm and trigonometric functions.

Prerequisites: MATQ 1092 or ABEM 0010 or Pre-calculus 12 with a P; or Principles of Mathematics 12 with a P; or Pre-calculus 11 with a C; or Principles of Mathematics 11 with a C; or Applications of Mathematics 12 with a C; or Foundations of Math 11 with a C+; or Mathematics Placement Test
Not Transferable

MATQ 1094 CR-3
Foundations of Mathematics
Students will study financial math, measurement, algebra, geometry, probability, statistics, logical reasoning, and trigonometry.

Note: This course can be taken in either a classroom related instruction environment (fixed intake) or an individually-paced learning environment (continuous intake).

Prerequisites: MATQ 1091 with a C+, or MATQ 1092 with a C, or ABEM 0010 with a C, or Principles of Mathematics 10 with a C+, or Pre-calculus Mathematics 10 with a C+, or Foundations of Mathematics 10 with a C+, or Apprenticeship and Workplace Mathematics 10 with a B+, or Essentials of Mathematics 10 with a B+, or an ACP Math assessment result of "MATQ 1094"
Not Transferable

MATQ 1099 CR-3 (formerly MATP 1011)
Qualifying Studies Math
Students planning to enter Bachelors' and other programs will use this as a qualifying course. They will learn algebra, with an emphasis on problem solving. Students will be introduced to functions, systems of equations, polynomials, quadratic functions, inequalities, and radical and rational expressions. They will also be introduced to exponential and logarithmic functions or descriptive statistics or probability.

Prerequisites: Math 10 (B) or Principles of Math 11(P) or Applications of Math 11(C) or ABEM 0010 or MATP 1010 or MATQ 1092 or ACP Assessment or Mathematics Placement Test.

In the event of a discrepency between this document and the official KPU 2013-14 Calendar (available at www.kpu.ca/calendar/2013-14), the official calendar shall be deemed correct.

2013-14 Calendar — **www.kpu.ca/calendar/2013-14**