Mathematics Math 9 — MMA--09MA — Grade 9 — Credits 0

The grade 9 math program will cover concepts of numbers (powers, rational numbers, square root of positive rational numbers), patterns and relationships (graph of linear relationships, interpolation and extrapolation, linear equations, single variable linear equalities operations on polynomials), shapes and space (circle properties, surface area of composite 3-D objects, similarities of polygons) and statistics and probability. It is suitable for the student who is competent with the concepts in the Grade 8 curriculum.

Mathematics Pre-Math 9 — MMA--09PRE — Grade 9 — Credits 0

This is a preparatory course for mathematics 9; students should select this course if they need additional time to develop their skills and confidence to prepare for Math 9.

Mathematics Foundations & Pre-Calculus Math 10 — MFMP-10 — Grade 10 — Credits 4

Topics include Powers, Prime Factorization, Functions and Relations, Linear Functions, Arithmetic Sequences, Systems of Linear Equations, Polynomial Multiplication and Factoring, Trigonometry and Financial Literacy. Students who take this course will be able to choose between both Pre-Calculus Mathematics 11 and Foundations of Mathematics 11 in their Grade 11 year.

Mathematics Foundations of Mathematics and Pre-calculus 10- Distance Learning (CEAP) — MFMP-10DL — Grade 10 — Credits 4

Distance Learning Course—Topics include Powers, Prime Factorization, Functions and Relations, Linear Functions, Arithmetic Sequences, Systems of Linear Equations, Polynomial Multiplication and Factoring, Trigonometry and Financial Literacy. Students who take this course will be able to choose between both Pre-Calculus Mathematics 11 and Foundations of Mathematics 11 in their Grade 11 year.

Mathematics Workplace Math 10-Distance Learning (CEAP) — WMPM-10DL — Grade 10 — Credits 4

Distance Learning Course—Students will learn the following: puzzles and games for computational fluency, create, interpret, and critique graphs, primary trigonometric ratios, metric and imperial measurement and conversions, solving problems involving surface area and volume, angles, central tendency experimental probability, financial literacy, gross and net pay.

Mathematics Workplace Mathematics 10 — MWPM-10 — Grade 10 — Credits 4

Students will learn the following: puzzles and games for computational fluency, create, interpret, and critique graphs, primary trigonometric ratios, metric and imperial measurement and conversions, solving problems involving surface area and volume, angles, central tendency experimental probability, financial literacy, gross and net pay.

Mathematics Foundations of Math 11 — MFOM-11 — Grade 11 — Credits 4

This course is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus like Economics, Geography, Arts or Humanities. Topics include Mathematical Reasoning, Angle Relationships, Graphical Analysis, Statistics, Scale and Financial Literacy.

Mathematics Foundations of Math 11-Distance Learning (CEAP) — MFOM-11DL — Grade 11 — Credits 4

Distance Learning Course—This course is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus like Economics, Geography, Arts or Humanities. Topics include Mathematical Reasoning, Angle Relationships, Graphical Analysis, Statistics, Scale and Financial Literacy.

Mathematics Pre-Calculus 11 — MPREC11 — Grade 11 — Credits 4

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus like Sciences or Engineering. Topics include Number Systems, Powers, Radicals, Rational Expressions, Quadratic Functions, Linear and Quadratic Inequalities, Trigonometry and Financial Literacy.

Mathematics Pre-Calculus 11- Distance Learning (CEAP) — MPREC11DL — Grade 11, Credits 4

Distributed Learning Course—This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus like Sciences or Engineering. Topics include Number Systems, Powers, Radicals, Rational Expressions, Quadratic Functions, Linear and Quadratic Inequalities, Trigonometry and Financial Literacy.

Mathematics Workplace Mathematics 11 — MWPM-11 — Grade 11, Credits 4

In Workplace Math 11, student will explore the following Big Ideas: Proportional reasoning is used to make sense of multiplicative relationships. Mathematics informs financial decision making. 3D objects are often represented and described in 2D space. Flexibility with numbers builds meaning, understanding, and confidence. Representing and analyzing data allows us to notice and wonder about relationships. Upon course completion Students will know the following: puzzles and games for computational fluency, how statistics are used in a contextualized situation, 3D objects (views and scale diagrams), linear relationships, slope as a rate of change, financial literacy: investments and loans, personal budgeting and planning for significant life purchases.

Mathematics Workplace Mathematics 11- Distance Learning (CEAP) — MWPM-11DL — Grade 11, Credits 4

Distance Learning Course—In Workplace Math 11, student will explore the following Big Ideas: Proportional reasoning is used to make sense of multiplicative relationships. Mathematics informs financial decision making. 3D objects are often represented and described in 2D space. Flexibility with numbers builds meaning, understanding, and confidence. Representing and analyzing data allows us to notice and wonder about relationships. Upon course completion Students will know the following: puzzles and games for computational fluency, how statistics are used in a contextualized situation, 3D objects (views and scale diagrams), linear relationships, slope as a rate of change, financial literacy: investments and loans, personal budgeting and planning for significant life purchases.

Mathematics Calculus 12 — MCALC12 — Grade 12, Credits 4

This course is designed for those students who wish to develop mathematically beyond Pre-Calculus 12. It will be especially helpful to those going on to any college or university program. Students will study the concepts of functions and limits, rules of differentiation, indefinite integrals, methods of integration and the application of Calculus to real world problems.

Mathematics Foundations of Mathematics 12 — MFOM-12 — Grade 12, Credits 4

This course is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that do not require the study of theoretical calculus like Economics, Geography, Arts or Humanities. Topics include financial mathematics, logical reasoning, probability, relations and functions and fractals.

Mathematics Foundations of Mathematics 12 -Distance Learning (CEAP) — MFOM-12DL — Grade 12, Credits 4

Distance Learning Course—This course is designed to provide students with developing mathematical understanding and competencies identified for post secondary studies in programs that do not require the study of theoretical calculus. Topics include financial mathematics, logical reasoning, probability, relations and functions and fractals.

Mathematics Pre-Calculus 12 — MPREC12 — Grade 12, Credits 4

This pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post -secondary programs that require the study of theoretical calculus like Sciences, Engineering or Economics. Topics include algebra and number, measurement, relations and functions, trigonometry, permutations, combinations and binomial theorem.