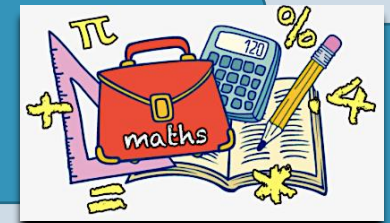


Foundations for College Mathematics (MAP4C1)



This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyse data using statistical methods; solve problems involving applications of geometry and trigonometry; solve financial problems connected with annuities, budgets, and renting or owning accommodation; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades.

Mathematical Modelling

- Solve problems using formulas arising from real-world applications
- Evaluate powers and simplify algebraic expressions involving exponents
- Interpret and compare graphs using rate of change and initial conditions

Geometry and Trigonometry

- Solve real-world problems using measurement and geometry
- Determine optimal dimensions of two and three-dimensional figures
- Solve problems using primary trigonometric ratios, sine law, and cosine law

Personal Finance

- Understand and solve problems involving annuities
- Gather, interpret, and compare information about owning or renting accommodation
- Design, justify, and adjust budgets

Data Management

- Understand common statistical terms
- Collect, analyse, and summarize two-variable data
- Understand the applications of data management used by the media and the advertising industry