

Course Outline: Foundations For College Mathematics 12: MAP4C

Teacher: _____ **Credit Value:** 1.0
Course Code: MAP4C **Prerequisite:** MBF3C/MCF3M/MCR3U

Course Description:

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.

Curriculum Strands:	Units of Study:
Trigonometry and Geometry	Unit 1: Trigonometry
Mathematical Models	Unit 2: Geometry
Personal Finance	Unit 3: Mathematical Models
Data Management	Unit 4: Personal Finance
	Unit 5: Data Management

Assessment & Evaluation:

Term Work:	70%	Final Summative:	30%
UNIT Assignments	= 15%	Summative Project/Review	= 15%
Quizzes	= 15%	Final Exam	= 15%
In Class/Take Home Assignments	= 10%		
Tests	= 30%		

Within each Curriculum Strand, the following Achievement Chart Categories will be used for individual evaluations: Knowledge/Understanding, Thinking/Inquiry, Communication, Application

Learning Skills and Work Habits: The following Learning Skills and Work Habits are evaluated regularly using a scale of Excellent, Good, Satisfactory or Needs Improvement:

- Responsibility
- Organization
- Independent Work
- Collaboration
- Initiative
- Self-Regulation

Growing Success: Students will be assessed through a combination of conversation, observation, and product. Success criteria, exemplars and ongoing descriptive feedback will be used to support student learning. Assessment will be varied in nature, and administered over a period of time to provide multiple opportunities for students to demonstrate the full range of their learning. The final grade should reflect the student's most consistent level of achievement, with special consideration given to more recent evidence. (*Growing Success, 2010*)

Teaching Strategies: A variety of teaching and learning strategies will be incorporated throughout the course.