RICHVIEW COLLEGIATE INSTITUTE

PROGRAM AREA: Mathematics	COURSE NAME: Foundations for College
COURSE CODE: MBF 3C	GRADE/LEVEL: 11
PREREQUISITE: MFM 2P	CREDIT VALUE: 1.0

Cost of Textbook/equipment replacement: _____\$75____

(if lost or damaged)

Additional Course Costs: _____

Textbooks(s)/Resources:

Foundations for Mathematics 11 ISBN 978-0-07-078084-2 McGraw-Hill Ryerson

COURSE DESCRIPTION:

This course enables students to broaden their understanding of mathematics as a problem-solving toll in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; develop their ability to reason by collecting, analysing, and evaluating data involving one variable; connect probability and statistics; and solve problems using geometry and trigonometry.

CURRICULUM STRANDS (UNITS) and OVERALL EXPECTATIONS:

Mathematical Models	*	quadratic and exponential relations		
	*	make connections between the numeric, graphical & algebraic representations		
	•	use above connections to problem solve.		
	*	demonstrate an understanding of exponents		
	•	make connections between numeric, graphical & algebraic representations		
	•	describe & represent relations arising from real-world applications		
	•	solve problems arising from real-world		
Personal Finance	*	compare simple & compound interest		
	•	relate compound interest to exponential growth		
	•	solve problems involving compound interest		
	•	compare services from financial institutions		
	•	solve problems involving cost of purchases on credit		
	•	interpret information about owning and operating a vehicle		
Geometry &				
Trigonometry	*	represent, in a variety of ways, two-dimensional shapes and three-dimensional		
		figures arising from real-world applications		
	•	solve design problems		
	•	solve problems in acute triangles using the sine & cosine laws		
	•	solve problems in real-world applications		
Data Management	*	solve problems involving one-variable data		
	•	organize, analyse, evaluate data		
	•	determine and represent probability, identify & interpret applications		

CURRICULUM STRANDS (UNITS) and OVERALL EXPECTATIONS: (continued)

Throughout this course, students will

- Problem Solve
- Reason and Demonstrate
- Reflect, and apply
- Select Tools and Computational Strategies
- Connect (between mathematical concepts and procedures)
- Represent and determine through investigation
- Communicate

Assessment and Evaluation

Assessment and Evaluation are based on the expectations and levels of achievement outlined in the provincial curriculum document for each subject. A wide range of assessment and evaluation opportunities allows students to demonstrate their learning in a variety of ways. This information provides the basis for reporting student grades on the Provincial Report Card. A final mark will be calculated using the following categories or strands.

<u>Formative Evaluation:</u> (70% of the final mark will be based on evaluations conducted throughout the course) All four achievement categories/strands do not need to be evaluated in each evaluation task.

Communication (20%)	Knowledge/Understanding (30%)	Thinking and Inquiry (20%)	Application/Making Connections (30%)
Tests/quizzes Journal entries Presentations/reports Mathematical terminology/conventions Assignments	Tests/quizzes Assignments Reports	Tests Mathematical conventions Assignments Reports	Tests/quizzes Mathematical conventions Assignments Reports

Summative Evaluation: (30% of the final mark will be based on a final evaluation in the form of culminating activities).

Components of Summative Evaluation: 1. ____Assignment____(15%)

2. ____Exam____(15%)

** A detailed explanation of the culminating activity/activities will be distributed to students in the class.

<u>Learning Skills</u>: The report card provides a record of the learning skills, demonstrated by the student in every course in the following six categories: Responsibility, Independent Work, Initiative, Organization, Collaboration, Self-Regulations. The learning skills are evaluated using a four-point scale (E-Excellent, G-Good, S-Satisfactory, N-Needs Improvement).

Please refer to the Student Agenda Planner for details regarding the Achievement Chart and Learning Skills.

Summer School is available for students achieving between 35 and 49%.

We believe that homework completion is essential for student success.