

GRADE 12 ESSENTIAL MATHEMATICS COURSE OUTLINE

Term 4: 02 Apr – 05 Jun 2024

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Final Exam: **Wednesday, 05 Jun, 2024**



We live in a rapidly changing world. Mathematics is playing more and more a role in our everyday lives. A firm foundation in mathematics is now an essential part of living in today's fast - paced society. On this Grade 12 Essential Mathematics course you will learn several of the essential skills of today's working world.

Grade 12 Essential Mathematics is intended for students whose post-secondary planning does not include a focus on mathematics or science-related fields. Grade 12 Essential Mathematics is a one-credit course emphasizing consumer applications, problem solving, decision making, and personal finances. Grade 12 Essential Mathematics builds on the knowledge and skills of prior Grades 10 and 11 Essential Mathematics courses.

Topics

Unit Label	Subject	Class Hours
A	Problem Solving / Analysis Games	14
B	Vehicle Finance	16
C	Statistics	8
D	Precision Measurement	12
E	Career Life Project ?	12
F	Home Finance	13
G	Geometry and Trigonometry	14
H	Business Finance (Spreadsheets)	10
I	Probability	11
	Total	110 hrs

Attendance. Attendance and participation will be communicated to funders based on the student's regular and timely attendance. More than nine days of absence on a course is considered irregular! Those unable to participate in class daily for any *brief* period are still expected to keep up with class work.

Supplemental Materials / Equipment: A scientific calculator is required. Those with the 50 to 100(+) different functions. A \$4 Dollarama scientific calculator is not sufficient, neither is your phone, a **\$15 - \$20** calculator that features **Multi-Line Display** that shows everything you type in is especially desirable. A few calculators are available in the classroom for classroom use.

Textbook. There is no textbook for the course. Each unit has its own prepared set of class notes and workbook(s) for students to interact with. Notes and some related resources are also available on the MrF Teach website: mrfteachmb.com.

Pre-Requisites. Grades 10 and 11 Math, or the equivalent experiential learning, is a pre-requisite for the readily successful completion of the course. There will be several occasions to backfill with *some* prior studies. Notably, for example, knowing the multiplication tables is **critical**.

Assessment and Evaluation. Assessment is based on assignments, quizzes, a Mid-Term Test; and a Final Exam with Study Notes ('Cheat Sheet'). Assignments more than a week late are subject to a penalty. Quizzes and tests cannot generally be made up if they are missed.

Item	Approx. Percentage of Mark
Assignment Worksheets (~20)	~35%
Regular Weekly Quizzes	~25%
One Mid-Term Test	~15%
Final Exam (& 'Cheat Sheet')	25%

Yellowquill Office Number. Reception is at 953-2800 for any family needing to contact a student.

Smart Phones and Related Devices. Smart phones and related devices can be very powerful tools in a mathematics class. There are some wonderful apps we may explore out of interest. Smart phones and related devices are otherwise to be stored away in vibrate mode. Students more interested in their social media will be invited to leave the room while they are so engaged. There will be limited occasion during which to be using iPods and ear buds in the classroom.

Study Notes (aka: 'Cheat Sheet'). You are required to make a single sheet of study notes ('cheat sheet') and revise it throughout the course. The single sheet of notes is allowed on quizzes, tests, and the final exam. Composing your thoughts early onto a single sheet of paper and regularly revising it is a powerful way to learn. The cheat sheet is worth an *extra* 5% on final mark.

Sickness Protocol(s). Students will comply with the established and current school and provincial protocols regarding suppression of virus transmission. Those stuck at home for a brief period must still keep up with classwork, more than ample resources are provided to so do; particularly the website and the daily blog at 'mrfteachmb.com/blog/'

Conclusion. We are all in this together. It will be a lot of work for all of us, myself included. But I am prepared to deliver to you a great Grade 12 Essentials mathematics course with your eager and enthusiastic participation.