

GRADE 11 ESSENTIAL MATHEMATICS COURSE OUTLINE

Term 2: November 7, 2021 – January 19, 2023
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FINAL EXAM: Thursday 19 January 2023



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 11 Essential Mathematics course you will learn several of the essential skills of today's working world. This particular course will be slightly elevated to groom students for the subsequent Grade 12 Applied Math.

Grade 11 Essential Mathematics is intended for students whose post-secondary planning does not include a focus on mathematics or science-related fields. Grade 11 Essential Mathematics is a one-credit course emphasizing consumer applications, problem solving, decision making, and spatial sense. Grade 11 Essential Mathematics builds on the knowledge and skills of Grade 10 Essential Mathematics and provides a foundation for the topics studied in Grade 12 Mathematics Courses.

Prerequisites. Knowing one's multiplication facts is **absolutely critical**. Further; recalling fractions, geometry of shapes, basic algebra and problem solving from prior Grades will allow a smooth learning process.

Topics

Unit Label	Subject	Hours
A	Analysis of Games and Numbers	12
B	Interest and Credit	18
C	3-D (Solid) Geometry	16
D	Statistics	14
E	Managing Money	16
F	Relations and Patterns	16
G	Trigonometry	5
H	Design Modelling	13
X	Review of Prior Studies	A/R
	Total	110 hrs

On-Time. Notice that 110 hours is necessary for this course. This is a quick paced course! Disruption of your class through late arrivals too frequently does not promote effective learning. Late arrivals and extended breaks just complicate timely delivery of the course.

Extra Assistance. I am more than readily available at short notice for any and all students for additional assistance provided they are industrious and earnest. Ample additional support is available on the course website at: mrfteach.mb.ca/wp. Maintaining a daily watch on the daily **blog** will be **critical**.

Attendance. Attendance and tardiness are recorded daily and processed by the office and funding agencies. Making up missed work and notes is your responsibility. There is more than sufficient means to readily locate what you have missed.

Supplemental Materials / Equipment: A scientific calculator is required. The ones with the 50 to 100 different functions. \$3 Dollarama scientific calculator is not sufficient, a **\$15 - \$20** calculator that features **Multi-Line Display** or equivalent is especially desirable. The calculator on your phone is generally *not* sufficient although there are good Scientific Calculator Apps you can download.

Textbook. There is no text book for the course. Each unit has its own prepared set of class notes and Unit Workbooks for students to interact with.

Assessment and Evaluation. Assessment is based on Homework, roughly 40% of mark, Mid-Terms Test 15% of mark, regular quizzes (20%) and a Final Exam 30% of mark. In the event of migration to remote learning the assessment methods will be adjusted.

Item	Weight Factor	Approx. Percentage of Mark
Homework (x 20 Assignments)	10	35%
Quizzes (x ~ 5 Weekly)	25	20%
Mid-Term Test	50	15%
Final Exam (x 1) & Cheat Sheet	A/R	30%

Food/Drink. Food is not generally permitted in the classroom except on certain occasions. Drinks are permitted provided they have a secure lid.

Cell 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. However, use of the cell phone for personal reasons is not permitted. Silence it, store it away and check it at the break. Despite that the smart phones have a wonderful calculator you will likely need to have a proper handheld scientific calculator in the classroom.

Emergencies / Office Number. Reception is at **953-2800**. It will be useful to share this number with child care facilities and immediate family for emergencies only.

Reference Notes. You are encouraged to make a single sheet of notes and revise it throughout the course. The single sheet of notes [‘cheat sheet’] is allowed on all test and exams and final exams. Composing your thoughts onto a single sheet of paper is a powerful way to learn. Students are expected to have their own ‘Cheat Sheet’ for the Final Exam.

COVID-19. The prevailing COVID-19 rules will be enforced. In the event the course transitions to full Remote Learning a published Remote Learning procedure will be followed and students will need access to reliable internet and the necessary devices.

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 11 Essentials mathematics course with your eager and enthusiastic participation.

 Date

 Instructor