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Course: Foundations of Mathematics 12 Course Len

Teacher: Ms. Leila Dianati

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Phone: 604 760-1686

Course Length: 10 months

Website:

Information

Registration

(approx. 120 hours)

https://online.burnabyschools.ca/

online.info@burnabyschools.ca

register.online@burnabyschools.ca

Course Curriculum

The curriculum for this course is built around the following Big Ideas:

Probabilistic thinking informs decision making in situations involving chance and uncertainty.

Modelling data requires an understanding of a variety of functions.

Mathematical analysis informs financial decisions.

Through **explorations** of spatial relationships, we can develop a geometrical appreciation of the world around us.

Building on these Big Ideas, Students are expected to know the following:

- · geometric explorations:
 - constructions
 - □ conics
 - □ fractals
- graphical **representations** of polynomial, logarithmic, exponential, and sinusoidal functions
- regression analysis
- combinatorics
- odds, probability, and expected value
- financial planning

Mark Weighing

Category	Weighing
Assignments	35%
Project	25%
Unit Tests	40%

MFOM-12 (2019) Page 1 of 2

Resources

- A textbook is not required for this course.
- A graphing calculator (Suggested: TI-83Plus)
 Students may want to use an online graphing calculator or an emulator on their phone, but will need to borrow one to write tests.

Course Content

Completion of items in boldface and underlined will activate a student.

Units	Formative Assessment	Cumulative Assessment
1: Financial Planning	1 assignment	1 Unit test
	1 project	
2: Deleted		
3: Combinatorics	1 assignment	1 Unit test
4: Probability	1 assignment	1 Unit test
5: Conics	1 assignment	1 Unit test
	1 project	
6: Polynomial Functions	1 assignment	1 Unit test
7: Exponential and Logarithmic Functions	1 assignment	1 Unit test
8: Sinusoidal Functions	1 assignment	1 Unit test
	1 project	
9: Geometric Exploration	1 assignment	1 Unit test
	1 project	

Students are expected to:

- contact the teacher by email or phone when help is needed, or questions arise
- be actively engaged and submitting work on a regular basis
- inform the teacher when they will be inactive for two or more weeks.
- be aware that if they are inactive in a course for four or more weeks they may be removed from that course
- check their email at least twice a week
- create and submit completed solutions for all activities in the unit/chapter before requesting a test.
- cite all sources properly
- answer in their own words
- check that their work and tests have been marked.
- make appointments to write tests at least 2 school days in advance.

MFOM-12 (2019) Page 2 of 2