



COURSE DESCRIPTION 2011-2012

COURSE NAME:	Technical and Scientific Mathematics	LEVEL:	Cycle 2, Year 2
COURSE CODE:	564-406	PERIODS PER CYCLE:	8
TEACHER(S):	E-MAIL ADDRESS:		
Ms. M. Franco	franco.m@gaa.qc.ca		

Subject Area Competencies (C1 and C2):

C1	Solves a Situational Problem: <i>a complex task that involves multiple steps and may have numerous solutions</i>
30%	<ul style="list-style-type: none"> - The student must be able to identify information from different types of representations such as graphs, tables of value, word problems etc. - The student must be able to represent a situational problem using a graph, table of values, equation etc. - The student should be able to work out a solution using appropriate methods. - The student should be able to check the solution to the problem and justify all steps in the procedure. - The student should be able to clearly explain the solution either in written form or orally.
<i>Activity Types in this competency: Activities that involve solving situational problems; LES; Complex Problems</i>	
C2	Uses Mathematical Reasoning: <i>applies appropriate concepts and processes</i>
70%	<ul style="list-style-type: none"> - The student should be able to make connections and relationships between concepts and processes. - The student should be able to select and evaluate the suitability of the process. - The student should be able to choose an appropriate representation and follow a logical sequence of steps.
<i>Activity Types in this competency: Tests, quizzes, Assignments, LES</i>	

Please note the following changes in Evaluation:

C3 Communicates by Using Mathematical Language

- The student will be able to understand mathematical vocabulary and symbols.
- The student will be able to interpret and summarize the ideas using mathematical language.
- The student will be able to produce a clear and coherent message using appropriate mathematical or everyday language suited to the context.

******The student will be provided with feedback on this element, but this feedback will not be considered when determining the student's mark in the report card.**

Reporting:

	Overview and Evaluation Summary	Competencies	
		#1	#2
Term 1	Review of algebra Factoring (all forms) Simplifying rational expressions Operations on radicals Solving systems of equations Study of the linear function Study of the quadratic function Study of the piecewise function Study of the square root function *Quizzes, Tests, LES, Assignments	X	X
Term 2	Study of congruent and similar figures Study of analytic geometry Study of trigonometry Area of triangles *Quizzes, Tests, LES, Assignments	X	X
	Christmas Exam	X	X
Term 3	Study of the greatest integer function Study of the periodic function Study of the logarithmic function Study of the exponential function Statistics Probability *Quizzes, Tests, LES, Assignments	X	X
	June exam * The final mark for the year is composed of the 50% of the June exam and 50% of the year's mark.	X	X

Lunchtime Tutoring: every Day 3

***Students are requested to bring a bagged lunch on tutoring days to maximize our lunchtime tutorial session together. Thank you!

Tutoring location: TBA

Please Note:

- The expectation is for approximately **30** minutes of homework for each one hour of class time.
- Lists of outside tutors are available upon request.
- Please contact appropriate teacher by **e-mail** if there are questions or problems.
- For specific concerns, please contact the Mathematics Department Head, Ms. D. Fry at fry.d@qaa.qc.ca