COURSE DESCRIPTION 2011-2012

COURSE NAME:	**Technical and Scientific Mathematics**	LEVEL:	**Cycle 2, Year 3**
COURSE CODE:	**564-506**	PERIODS PER CYCLE:	7
TEACHER(S):	E-MAIL ADDRESS:		
Ms. K. Pannell	pannell.k@qaa.qc.ca		

Subject Area Competencies (C1 and C2):

C1	**Solves a Situational Problem:** ***a complex task that involves multiple steps and may have numerous solutions***
30%	- 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.
Activity Types in this competency: Activities that involve solving situational problems; LES; Complex Problems	
C2	**Uses Mathematical Reasoning:** ***applies appropriate concepts and processes***
70%	- 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.
Activity Types in this competency: Tests, quizzes, Assignments, LES	

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	• Optimization
	• Real Number Functions
	  o Second Degree Polynomial Function
	  o Greatest Integer Function
	  o Rational Function
	  o Square Root Function
	• Circle Geometry
	
	*Quizzes, Tests, LES, Assignments
		X	X

Term 2	• Trigonometry • Exponents • Logarithms *Quizzes, Tests, LES, Assignments	X	X
	Christmas Exam	X	X
Term 3	• Conics • Vectors • Solids and Matrices *Quizzes, Tests, LES, Assignments	X	X
	June exam ***** The mark of the June examination will be incorporated into the Term 3 mark and will make up a significant percentage of Term 3.	X	X

Lunchtime Tutoring: every Day 5 in room 3A

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

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