



# 2009-2010 COURSE OUTLINE

<b>COURSE NAME:</b>	Technical and Scientific Mathematics	<b>LEVEL:</b>	Cycle 2, Year 2
<b>COURSE CODE:</b>	564-406	<b>PERIODS PER CYCLE:</b>	8

## Subject Area Competencies:

1.	<b>The student solves a situational problem (a complex task that involves multiple steps and may have numerous solutions)</b>
30%	<ul style="list-style-type: none"> <li>-The student must be able to identify information from different types of representations such as graphs, tables of value, word problems etc.</li> <li>-The student must be able to represent a situational problem using a graph, table of values, equation etc.</li> <li>-The student should be able to work out a solution using appropriate methods.</li> <li>-The student should be able to check the solution to the problem and justify all steps in the procedure.</li> <li>-The student should be able to clearly explain the solution either in written form or orally.</li> </ul>
<i>Activity types in this competency:</i> -Activities that involve solving situational problems	
2.	<b>The student uses mathematical reasoning ( applies appropriate concepts and processes)</b>
45%	<ul style="list-style-type: none"> <li>-The student should be able to make connections and relationships between concepts and processes.</li> <li>-The student should be able to select and evaluate the suitability of the process.</li> <li>-The student should be able to choose an appropriate representation and follow a logical sequence of steps.</li> </ul>
<i>Activity types in this competency:</i> -Tests, quizzes, homework assignments.	
3.	<b>The student communicates using mathematical language</b>
25%	<ul style="list-style-type: none"> <li>-The student will be able to understand mathematical vocabulary and symbols.</li> <li>-The student will be able to interpret and summarize the ideas using mathematical language</li> <li>-The student will be able to produce a clear and coherent message using appropriate mathematical or everyday language suited to the context.</li> </ul>
<i>Activity types for this competency:</i> -Any activity which requires using mathematical vocabulary, interpreting mathematical models and comparing different forms of representation.	

Please read both our Information Handbook and the Course Description book for details on absences, homework, Parent/Teacher interviews, evaluation, requirements for graduating, requirements for entering CEGEP, and many other pertinent topics.