



## Course Outline

Course: MATH 414 (School Year 2014 – 2015)  
 Class resources: Math-help-services.com  
 Course description: Cultural, Social and Technical Stream, Prerequisite to MATH 504

### Evaluation

Term 1 (20% of School Course Grade)		
Competencies Targeted	Evaluation Methods	Timeline
Competency 1: Solves a situational problem (30% of term grade)  Competency 2: Uses mathematical reasoning (70% of term grade)	May include, but not limited to: <ul style="list-style-type: none"> <li>• Tests</li> <li>• Projects</li> <li>• Quizzes</li> <li>• Pop quizzes</li> <li>• Situational Problems</li> </ul>	To finish by Nov. 7
<i>Communication to Students and Parents</i>	<i>Materials Required</i>	
<ul style="list-style-type: none"> <li>• Progress report in October</li> <li>• Report card in November</li> <li>• Written and verbal communication on an as needed basis</li> </ul>	<ul style="list-style-type: none"> <li>• Graph paper and copybook</li> <li>• Ruler, pencils, and eraser</li> <li>• Scientific calculator</li> <li>*Cell phones cannot be used as calculators</li> <li>• Internet access for math-help-services.com</li> <li>• Memory aid.</li> </ul>	

Term 2 (20% of School Course Grade)		
Competencies Targeted	Evaluation Methods	Timeline
Competency 1: Solves a situational problem (30% of term grade)  Competency 2: Uses mathematical reasoning (70% of term grade)	May include, but not limited to: <ul style="list-style-type: none"> <li>• Tests</li> <li>• Quizzes</li> <li>• Pop Quizzes</li> <li>• Situational Problems</li> <li>• Midyear Exam (EMSB)</li> </ul>	To finish by Jan. 30
<i>Communication to Students and Parents</i>	<i>Materials Required</i>	
<ul style="list-style-type: none"> <li>• Report card in February</li> <li>• Written and verbal communication on an as needed basis</li> </ul>	<ul style="list-style-type: none"> <li>• Graph paper and copybook</li> <li>• Ruler, pencils, and eraser</li> <li>• Scientific calculator</li> <li>*Cell phones cannot be used as calculators</li> <li>• Internet access for math-help-services.com</li> <li>• Memory aid</li> </ul>	

Term 3 (60% of School Course Grade)		
Competencies Targeted	Evaluation Methods	Timeline
Competency 1: Solves a situational problem (30% of term grade)  Competency 2: Uses mathematical reasoning (70% of term grade)	May include, but not limited to: <ul style="list-style-type: none"> <li>• Tests</li> <li>• Projects</li> <li>• Quizzes</li> <li>• Pop quizzes</li> <li>• Situational Problems</li> <li>• June Exam (MELS)</li> </ul>	To finish by Jun. 5
Communication to Students and Parents	Materials Required	
<ul style="list-style-type: none"> <li>• Report card in June</li> <li>• Written and verbal communication on an as needed basis.</li> </ul>	<ul style="list-style-type: none"> <li>• Graph and lined paper</li> <li>• Ruler, pencils, and eraser</li> <li>• Scientific calculator</li> <li>*Cell phones cannot be used as calculators</li> <li>• Internet access for math-help-services.com</li> <li>• Memory Aid</li> </ul>	

Additional Information / Specifications
<p>Topics Covered:</p> <p>Topic 1: From Lines to Systems of Equations (Arithmetic – Algebra – Geometry)</p> <p>Topic 2: From Congruent to Similar Figures (Geometry)</p> <p>Topic 3: Statistical Measure (Statistics)</p> <p>Topic 4: From Functions to Modeling (Arithmetic- Algebra)</p> <p>Topic 5: From Right Triangles to Trigonometric Relations (Geometry)</p> <p>Topic 6: Probability of Random Experiments (Probability)</p> <p>Competency 1: Situational Problems (100%)</p> <p>Competency 2: Tests (60%); Quizzes (30%); Pop quizzes and/or projects (10%)</p> <p><input type="checkbox"/> This course does not have a final exam. The final course grade comes entirely from the school course grade.</p> <p><input type="checkbox"/> This course has a final exam administered by the English Montreal School Board. The final course grade is determined by taking 80% of the school course grade and 20% of the school board exam.</p> <p><input checked="" type="checkbox"/> This course has a final exam administered by the <i>Ministère d'éducation, de loisirs et de sports (MELS)</i>. The final course grade is determined by taking 50% of the school course grade and 50% of the MELS exam. Please note that the final course grade is subject to MELS moderation.</p>