



# St. Michael Catholic Secondary School

9130 Columbia Way  
 Bolton, Ontario L7E 4G6  
 Phone: 905-951-8935

*We believe that each one, created in the image and likeness of God, is called by name into the Dufferin-Peel community to realize the Ontario Catholic School Graduate Expectations to the fullest extent possible as we all journey from the early years to vocation.*

## COURSE OUTLINE

<b>Department:</b>	Mathematics	
<b>Course:</b>	Foundations for College Mathematics, Grade 12, College Prep	
<b>Course Code:</b>	MAP4C1	
<b>Common Course Calendar</b>	<b>Course Description:</b>	
	<p>This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyse data using statistical methods; solve problems involving applications of geometry and trigonometry; solve financial problems connected with annuities, budgets, and renting or owning accommodation; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades.</p> <p><b>Prerequisite:</b> MBF3C1 or MCF3M1 ~ The mathematics department highly recommends a minimum average of 65% or higher be obtained in all prerequisite courses.</p>	
<b>Ministry/ICE Curriculum Documents Strand</b>	<b>Catholic Graduate Expectation Indicators for each Strand</b>	
<b>Mathematical Models</b> <ul style="list-style-type: none"> <li>Solving Exponential Equations</li> <li>Modelling Graphically</li> <li>Modelling Algebraically</li> </ul> <b>Personal Finance</b> <ul style="list-style-type: none"> <li>Understanding Annuities</li> <li>Renting or Owning Accommodation</li> <li>Designing Budgets</li> </ul> <b>Geometry and Trigonometry</b> <ul style="list-style-type: none"> <li>Solving Problems Involving Measurement and Geometry</li> <li>Investigating Optimal Dimensions</li> <li>Solving Problems Involving Trigonometry</li> </ul> <b>Data Management</b> <ul style="list-style-type: none"> <li>Working With Two-Variable Data</li> <li>Applying Data Management</li> </ul>	<b>A Discerning Believer Formed in the Catholic Faith Community who:</b> <ul style="list-style-type: none"> <li>Understands that one's purpose or call in life comes from God and strives to discern and live out this call throughout life's journey</li> </ul> <b>An Effective Communicator who:</b> <ul style="list-style-type: none"> <li>Reads, understands and uses written materials effectively</li> <li>Presents information and ideas clearly and honestly and with sensitivity to others</li> </ul> <b>A Reflective and Creative Thinker who:</b> <ul style="list-style-type: none"> <li>Recognizes there is more grace in our world than sin and that hope is essential in facing all challenges</li> <li>Thinks reflectively and creatively to evaluate situations and solve problems</li> </ul> <b>A Self-directed, Responsible, Life Long Learner who:</b> <ul style="list-style-type: none"> <li>Sets appropriate goals and priorities in school, work and personal life</li> <li>Applies effective communication, decision-making, problem-solving, time and resource management skills</li> </ul> <b>A Collaborative Contributor who:</b> <ul style="list-style-type: none"> <li>Develops one's God-given potential and makes a meaningful contribution to society</li> <li>Finds meaning, dignity, fulfillment and vocation in work which contributes to the common good</li> </ul> <b>A Responsible Citizen who:</b> <ul style="list-style-type: none"> <li>Accepts accountability for one's own actions</li> </ul>	

## Assessment and Evaluation:

Category Weightings	Weight %
Knowledge/Understanding	30%
Application	30%
Thinking	20%
Communication	20%

Final Summative Assessments	Overall Weighting
Term Work	70%
Culminating Assessment	10%
Exam	20%

Learning Skills and Work Habits will also be assessed and reported on. For More information please refer to Growing Success pg.

11. <http://www.edu.gov.on.ca/eng/policyfunding/growsuccess.pdf>

## Resources and Supplies Needed

► **Textbook:** Foundations for College Mathematics 12. McGraw-Hill Ryerson. ISBN 0-07-072514-4

**Please Note:** Students are assigned a textbook at the beginning of the year. Each student is responsible for his/her assigned textbook and must return the assigned textbook in good condition at the end of the year. Failure to do so will result in a payment of **\$120 cash, debit or credit card.**

► **Scientific Calculator or NSpire CAS graphing calculator, Pencil, Eraser, Paper, Graph Paper, Binder**

**Please Note:** The Math Department suggests that you invest in a graphing calculator to use in and out of the classroom. Prices vary, depending on where you purchase your calculator, however, if you invest in the graphing calculator now it will carry you through high school and college/university. Graphing calculators are available for in-class use for those students who do not purchase their own. Graphing calculator use on tests is at the discretion of the teacher.

## Assessment and Evaluation Policy – additional details may be found in the student agenda book

### ► Student Absences

Regular attendance on the part of students is vital to the learning process. Teachers will not be able to measure the achievement of curriculum expectation of students who miss assessment and evaluation opportunities.

Type of Absence	Communication	Next Steps
Illness	The parent/guardian will contact the school as per the school's attendance policy indicating that he/she is aware of the missed evaluation.	On the day of his/her return, the student and teacher will make arrangements to address the missed evaluation in a timely manner.
Appointments	In advance, the student will advise the teacher of the upcoming absence which will be verified by the parent/guardian as per the school's attendance policy.	In advance, the student and teacher will make arrangements to make up the missed evaluation.
School-related	In advance, the student will advise the teacher of the upcoming school related absence.	In advance, the student and teacher will make arrangements to make up the missed evaluation.
Prolonged	The parent/guardian will advise the school of the prolonged absence as soon as possible.	In advance, where possible, the student and teacher, in consultation with the administrator, will make arrangements to address the missed evaluations.

In the event that the student does not make up the missed evaluation(s), a zero may be assigned.

If it is determined that the evaluation(s) has/have been missed as a result of a skip or truancy, a zero may be assigned.

The parent/guardian and student should review the student handbook for absences related to the 30% final and for any additional information.

### ► Submission of Assignments

Timelines for submission of assignments are established to encourage students to manage their time and to take responsibility for their learning. Timelines are also established to allow teachers to effectively deliver curriculum, support students, and manage the evaluation of assignments. It is important, therefore, that students work towards completing all assignments.

Due Date	Late Submissions	Closure Date
A due date is set by the teacher.	Once the due date has passed, a maximum 10% mark deduction may be used.	Once the closure date has passed, a zero may be recorded for assignments not submitted.
	The Learning skills section of the report card will reflect observations regarding late and missed assignments.	

### ► Homework Policy

Homework is assigned on a daily basis. Students and parents should expect a maximum of 20 minutes of homework a night.

Student success in math requires an ongoing review and practice of material. Extra help is available - ask your teacher how you can receive extra help.

**Please feel free to contact the teacher at 905-951-8935**

I have read the above information:

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Parent / Guardian Signature