

ST. JEAN DE BREBEUF CATHOLIC SECONDARY SCHOOL

Course Outline

MAP 4C: College Mathematics, College Preparation

DESCRIPTION / RATIONALE

This course equips students with the mathematical knowledge and skills they will need in many college programs. Students will use statistical methods to analyse problems; solving exponential equations; solve problems involving principles of geometry and measurement to the design and construction of physical models; solve problems involving trigonometry in triangles; consolidate their skills in analyzing and interpreting mathematical models; demonstrate an understanding of mortgages and annuities; compare, analyse and solve problems associated with owning and renting accommodation; design and adjust budgets based described in case studies and describe applications of personal finance.

UNIT TITLES (APPROXIMATE TIME AND SEQUENCE)

Unit 1	Measurement and Geometry	9 lessons
Unit 2	Trigonometry	9 lessons
Unit 3	Two-Variable Statistics	8 lessons
Unit 4	Apply Data Management	9 lessons
Unit 5	Graphical Models	9 lessons
Unit 6	Algebraic Models	9 lessons
Unit 7	Annuities and Mortgages	9 lessons
Unit 8	Budgeting	9 lessons

NAME OF TEXT: Foundations for College Mathematics 12 (McGraw-Hill Ryerson)
\$103

COST:

EVALUATION

70% Based on evaluation conducted throughout the course broken down as follows:

KNOWLEDGE / UNDERSTANDING (TOTAL 25%)

Tests 15%

Quizzes 10%

APPLICATION (TOTAL 25%)

Tests 15%

Assignments 10%

COMMUNICATION (10%)

Tests 10%

THINKING (10%)

Performance Tasks 10%

30% Based on Final evaluation broken down as follows:

Final Exam 30%

Assessment tools used in this course will provide students with an appropriate balance of questions across the four Categories of the Achievement Chart: *Knowledge/Understanding, Application, Communication and Thinking*.

MATERIALS REQUIRED:

Scientific Calculator (Optional: TI-83+), three-ring binder, pencil, lined paper, graph paper, eraser, pen, ruler

LEARNING SKILLS

Learning skills will be assessed, evaluated and reported separately from the achievement grade. The learning skills include the following: *Responsibility, Organization, Independent Work, Collaboration, Initiative and Self-Regulation* ("Growing Success", page 11). These will be reported on the following scale

E – Excellent

G – Good

S – Satisfactory

N – Needs Improvement

TECHNOLOGICAL REQUIREMENTS:

Due to the extensive use of technology throughout the course, considerable knowledge of the use of the TI-83+ graphing calculator, *Microsoft Internet Explorer* web browser, *Microsoft Word* and *Excel* and *Geometer's Sketchpad* are an asset. Computer access is widely available throughout the school. Students may be encouraged to use the *First Class* client for various components of the course.

HOMEWORK

Homework assignments will be given daily. You are responsible for completing all assignments. Start each night's homework on a fresh sheet of paper and write the date on top of each page. An attempt on all questions must be made. Leave space at the end of questions you find difficult so corrections can be added. Homework is critical to your success in the course.

CLASS TIME

Students are expected to come to class on time and prepared. Bring notebook, textbook, pencil, pen, eraser, ruler and scientific calculator to class every day. Have your homework ready as it will be checked daily (during the first few minutes of class) and homework problems will be taken up before the lesson begins. It is expected that you work on your homework until you are dismissed by your teacher.

ABSENCE

You are responsible for any work missed due to absence (school events included). Copy missed class work as soon as you return and read over missed section in the text. You are expected to contact a classmate for information regarding homework, tests and quizzes. To help you, complete this chart and refer to it when necessary.

CLASSMATE'S NAME	PHONE NUMBER	E-MAIL

If you know you are going to be away, make arrangements with me for missed tests, quizzes, etc. and get the next day's homework.

LATES

Punctuality and attendance are signs of a mature student. Parents/guardians will be contacted after **4 lates**. The student will be sent to the office for the fifth and subsequent lates.

EXTRA HELP

I will be available for extra help when you need it. Make arrangements with me ahead of time to find a convenient time for both of us. There is also an after-school tutoring program (sign up through Guidance). It is up to you to get help as soon as you experience difficulties. This course moves very quickly but remember help is always available.

TESTS / QUIZZES and PERFORMANCE TASKS

If a student knows ahead of time that they will be absent on the day of a scheduled assessment, the student can make arrangements with the teacher to write upon returning to class. It is expected that students will write tests on designated dates.

For *legitimate* reasons, the student is required to submit a note, signed by the student's parent/guardian or doctor explaining the reason for their absence to his/her teacher as well as the parent/guardian being aware that a test was missed. An admit slip from the office does not constitute an official note.

If the student misses a Test/Quiz/Performance Task for no valid reason, the student will receive a **Zero**.

I have read this document and I am aware of the consequences should these requirements not be met.

Student's Signature: _____

Date: _____

Parent/Guardian Signature: _____

Date: _____