

FUNCTIONS AND RELATIONS 111

COURSE OUTLINE - FALL 2011



TEACHER: R. STEWART

TEXTS: Mathematical Modeling Books #2 & #3

WEBSITE: <http://math.mvhs.nbed.nb.ca/>

COURSE DESCRIPTION:

This elective course follows *Geometry and Applications in Mathematics 112*, and may be taken by students in grade 11 or 12. Students will study quadratics (exploring sequences, finite differences, solving quadratic equations, analyzing & transforming quadratic functions, and applying the general quadratic formula); rate of change (including average versus instantaneous rate of change); exponential growth (modeling with and analyzing exponential & logarithmic functions, transformations, properties of exponents & logarithms, and solving exponential & logarithmic equations) and applications of trigonometry (particularly the sine and cosine laws).

MATERIALS NEEDED:

- Pencils and an eraser
- Notebook/Binder to maintain daily notes and homework exercises
- Scientific Calculator

ATTENDANCE:

The pace of this course will be rapid; students will be expected to maintain excellent attendance. In the event of an absence, students are responsible for all missed work. (Please check the Math website noted above for missed notes and assignments.) If a student is absent for a test without a valid excuse, they will be given a mark of zero. It will be the responsibility of the student to present a satisfactory written excuse and arrange to write the test on his or her own time.

TOPICS:

Quadratics
Rate of Change
Exponential Growth
Trigonometry

EVALUATION:

Tests / Quizzes / Assignments	60 %
Midterm	10 %
Exam	30 %

To Learn Math Is To Do Math !!!