



Course Outlines – Secondary 4

Mathematics T.S.O.

Course Code : 564406

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Competencies

<i>Solves a situational problem</i>	30%
<i>Uses mathematical reasoning</i>	45%
<i>Communicates by using mathematical language</i>	25%

Course Description

Mathematics is a science and a universal language that plays an important role in a person's intellectual, social and cultural development. Mathematics is an intrinsic part of daily life and social progress, and is used in virtually every field of study (e.g. media, the arts, business administration, biology, engineering, sports).

Designed to begin preparing students for future studies in the sciences, commerce or in technologically-oriented professions, this mathematics course will develop the competencies outlined above largely through the use of educational technology. Students will be evaluated according to the three subject specific competencies, which delineate skills that pertain to the mathematical content.

(Source: MELS QEP Mathematics Program Description)

Principle Themes

- Algebraic Expressions
- Functions (polynomial, piece-wise & exponential)
- Analytic Geometry (including Systems of Equations)
- Metric Relationships in Triangles (including trigonometric ratios)
- Probability
- Statistics

Evaluation

- Learning and Evaluation Situations
- Evaluation Situations
- Assignments (in-class and take-home)
- Exams

Course Text

Buzgalo, C. **Mathematics 3000 – Technical & Scientific**. Guerin: Montreal