** Course Outline**

*Applications of Mathematics 120*

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**September 6, 2012**

Textbook:

**Unit 1 – *Measurement Technology***

* Demonstrate and understanding of the metric system and select appropriate units in given situations
* Demonstrate and understanding of the imperial system and select appropriate units in given situations
* Perform conversions within the imperial and metric systems of measurement
* Read and measure using various tools and instruments such as measuring tapes
* Understand and use formulas for area, surface area, and volume of geometric figures
* Use formula rearranging and equations

**Unit 2 – *Geometry***

* Perform geometric constructions and analyze the properties of the resulting figures
* Describe and apply symmetry
* Apply inductive reasoning to make conjectures in geometric situations
* Explore, make conjectures about, and apply centers of circles
* Co-ordinate geometry, distance, midpoint and slope
* Investigate, make, and prove conjectures associated with angle relationships in circles
* Present informal deductive arguments

**Unit 3 – *Consumer Literacy***

* Understand various terms and calculations related to earning
* Develop skills to correctly fill out income tax returns
* Investigate different types of revolving credit and explore best money management practices
* Investigate different types of banks (credit unions, chartered, trust) and services each offer
* Explore different types of investments – GIC, RRSP, mutual funds
* Budgeting – personal, purchasing, % over/under budget, HST
* Expenses related to operating an Automobile

**Unit 4 – *Applied Trigonometry***

* Solving right angled triangles
* Primary trigonometry ratios
* Law of Sines, Co-Sines
* Applications

*\*These units of study may not be completed in order. Also, students will be responsible for class work and, if necessary, should make arrangements when possible if an absence occurs. Additional mini-lessons may be given if I note particular areas of struggle.*

**Evaluation**

### Test /Projects : 50%

### In class Assignments/

### Quizzes 20%

### Exam 30%