Prerequisite: Level 1 or greater in Grade 9 Academic Math, level 2 or greater in Grade 9 Applied Math

Text Book: Addison Wesley

Unit 1: Functions/ Other
- ❑ Integers, Fractions, Bedmas
- ❑ Substituting Values for Variables
- ❑ Simplifying Polynomial Expressions
- ❑ Solving Equations
- ❑ Re-arranging Equations
- ❑ Functions

Unit 2: Co-ordinate Geometry
- ❑ $y = mx + b$ and Graphing
- ❑ Parallel and Perpendicular Reference
- ❑ Finding Equations Algebraically (Slope and Point, Two Points, Intercepts)
- ❑ Finding Equations from Graphs

Unit 3: Linear System
- ❑ Solving Systems of Equations by Graphing
- ❑ Solving Systems of Equations by Elimination
- ❑ Solving Systems of Equations by Substitution

Unit 4: Quadratic Expressions
- ❑ Expanding and Simplifying 2nd Degree Polynomials
- ❑ Factoring (Common, Simple Trinomials and Difference of Squares)

Unit 5: Quadratic Functions
- ❑ Properties of Quadratic Functions
- ❑ Graphing Using Properties
- ❑ Graphing Using Transformations
- ❑ Getting Equations from Graphs
- ❑ Maximum/Minimum (from Graph or Technology)

Unit 6: Trigonometry
- ❑ Proportions
- ❑ Congruence and Similarity
- ❑ Pythagoras
- ❑ Sine/Cos/Tan

Unit 7: Measurement and Geometry
- ❑ Conversions (Met to Imp, Imp to Met)
- ❑ Perimeter and Area
- ❑ Surface Area of Prisms, Pyramids, and Cylinders
- ❑ Volume of Prisms, Pyramids, Cylinders, Cones and Spheres

Evaluation:

Assessment Method	Achievement Categories				
	Knowledge/ Understanding	Thinking/Inquiry/ Problem Solving	Communication	Application	Total
Unit Tests	20.0%	10.0%	5.0%	10.0%	45.0%
Assignments	8.0%	5.0%	5.0%	7.0%	25.0%
Alternate Summative	2.0%	3.0%	2.0%	3.0%	10.0%
Exam	10.0%	2.0%	3.0%	5.0%	20.0%
Total	40.0%	20.0%	15.0%	25.0%	100.0%

Test Policy: Refer to the Banting Memorial High School Mathematics Department test Policy