Crocus Plains Regional Secondary School

Course Outline

Course Title: Applied Mathematics (MAD 30S)
Teacher: J. Slator
Contact: slator.jason@bsd.ca or 729-3900

General Learning Outcomes:

- solve problems that involve the application of rates.

- solve problems that involve scale diagrams, using proportional reasoning.

- demonstrate an understanding of the relationships among scale factors, areas, surface areas and volumes of similar 2-d shapes and 3-d objects.

- derive proofs that involve the properties of angles and triangles.

- solve problems that involve the properties of angles and triangles.

- solve problems that involve the cosine law and the sine law, including the ambiguous case.

- analyze and prove conjectures, using inductive and deductive reasoning, to solve problems.

- analyze puzzles and games that involve spatial reasoning, using problem-solving strategies.

- demonstrate an understanding of normal distribution.

- interpret statistical data.

- model and solve problems that involve systems of linear inequalities in two variables.

- demonstrate an understanding of the characteristics of quadratic functions.

Final Mark - Course Evaluation Structure:

- Unit Tests - 50%
- Assessments - 30%
- Final Exam - 20%

Units of Study

Unit 1: Proportional Reasoning
Unit 2: Quadratic Functions
Unit 3: Statistics
Unit 4: Trigonometry
Unit 5: Proofs
Unit 6: Inductive & Deductive Reasoning

Student Expectations

- Arrive to class on time with required materials (paper, pencil, calculator, etc).
- Complete all course work (assignments, tests, daily work).
- Be respectful of classmates, classroom furniture, and supplies.