

Richmond Hill High School

MATHEMATICS DEPARTMENT



201 YORKLAND STREET, RICHMOND HILL, ONTARIO, CANADA – L4S 1A2 – 905-884-2131

MDM4U: Mathematics of Data Management

Rationale:

"This course broadens students' understanding of mathematics as it relates to managing information. Students will apply methods for organizing large amounts of information; apply counting techniques, probability, and statistics in modeling and solving problems; and carry out a culminating project that integrates the expectations of the course and encourages perseverance and independence. Students planning to pursue university programs in business, the social sciences, or the humanities will find this course of particular interest." (Ontario Curriculum Guide: Mathematics 2007)

Prerequisite: Functions and Relations, Grade 11, University Preparation, or
Functions, Grade 11, University / College Preparation

Overall Expectations:

- develop students' proficiency as learners and thinkers in mathematics
- develop students' proficiency in their ability to apply mathematics in their daily life
- develop students' proficiency in interpretation, analysis, and creation of mathematical models used to solve realistic problems

Course Content:

| | |
|--------------------------------------|-----------------------------|
| Permutations and Combinations | Introduction to Probability |
| Statistics of One & Two Variables | Probability Distributions |
| Pascal's Triangle & Binomial Theorem | The Normal Distribution |

Evaluation:

Your final mark will be determined as follows:

| | |
|-------------------------------|------------|
| Term work | 70% |
| Based on | |
| Knowledge and Understanding | 25 % |
| Applications | 25% |
| Communication | 10% |
| Thinking/Problem Solving | 10% |
| Project and Final Exam | 30% |

Tests/Quizzes:

Tests are based on a unit of work and are always announced well in advance.

If you are going to away legitimately during a test or quiz the student must make arrangements with the teacher *prior* to the day of the absence. Failure to make arrangements in advance will result in a zero mark. Missing a test due to an appointment or field trip and informing the teacher after the fact is unacceptable.

If you are away on the day that a test is written due to unforeseen illness, you must bring a note, signed by a parent or guardian, indicating that they are aware that you have missed a math test and the reason for your absence.

This is different from the note that you provide for the office and should be addressed directly to the math teacher. This note is to be received within 3 school days after your return to school. Failure to do so may result in a mark of zero on the test. *In the event of a legitimate absence due to illness, your test mark may be replaced by the final exam mark.*