



A. Y. Jackson S. S.  
www.ayjackson.ca

## MDM4U Mathematics of Data Management Grade 12, Academic/University

### General Course Information

Prerequisite:	Functions, Grade 11, University Preparation, or Functions and Applications, Grade 11, University/College Preparation
Department:	Department of Mathematics
Extra Help:	Lunch
Textbook and Replacement Cost:	Mathematics of Data Management, McGraw-Hill Ryerson, On loan to students free of charge, \$120 if lost or damaged
Material Required:	Calculator, notebook, stationeries
Course Fee:	No fees

### Course Description

This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing and analysing large amount of information; solve problems involving probability and statistics; and carry out a culminating investigation that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and humanities will find this course of special interest.

The course topics are

- Counting Techniques
- Probability
- Probability Distributions
- Organization of Data for Analysis
- Statistical Analysis
- Culminating Data Management Investigation

A detailed list of the course expectations can be found at [www.edu.gov.on.ca](http://www.edu.gov.on.ca)

### Assessment and Evaluation

To promote student success, ongoing assessment and feedback will be given regularly to the students. A variety of assessment and evaluation strategies will be used in this course, including quizzes, tests, journal checks, projects and presentations, and a formal examination. Expectations will be evaluated based on the provincial curriculum expectations and the achievement levels outlined in the ministry document.

Expectations are organized into four categories of knowledge and skills. The categories and their corresponding weighting is as follows:

Knowledge and Understanding	Up to 30%
Thinking	Up to 20%
Communication	Up to 30%
Application	Up to 20%

Each student's final mark will be in the form of a percentage grade based on their achievement in the 4 categories on the achievement chart. The breakdown of the final mark is as followed:

Term Evaluation	70%
Final Evaluation	30%

The Final Evaluation will be completed at the end of the semester including a variety of summative activities: an exam, a presentation, a seminar, or an essay or another writing assignment.

In addition to students' performance in the achievement categories, students will also be assessed on their performance in the following learning skills:



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- Responsibility
- Organization
- Independent Work
- Collaboration
- Initiative
- Self-Regulation

For specific policies on assessment and evaluation, and academic honesty, please refer to *School Procedures* in the student agenda.

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