



GEORGE HARVEY COLLEGIATE INSTITUTE
MDM4U – Grade 12 Mathematics of Data Management, University



Teacher: A. Chor

Revision Date: February 1, 2013

Assistant Curriculum Leader: A. Chor

Credit Value: One (1) Credit

Prerequisite: MCR3U Grade 11 Functions, or MCF3M Grade 11 Functions and Applications

COURSE DESCRIPTION

This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing and analysing large amounts 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 the humanities will find this course of particular interest. At the end of the course, students will design and carry out a culminating investigation, present it to class, and critique the investigation of others.

TEXTBOOK: Mathematics of Data Management, McGraw-Hill Ryerson, 2002
ISBN Number: 9780070917149 (\$104.99 plus tax and shipping)

REQUIRED MATERIALS

- 3-Ring Binder
- Scientific Calculator
- Writing Utensils
- Student Agenda

COMMUNICATION OF STUDENT ACHIEVEMENT

Student progress and achievement are communicated to the students on an on-going basis through: interim progress reports, student-teacher conferences, verbal/written feedbacks, daily practices, formative assessments, and summative evaluations. See student agenda for detailed information on mid-term and final reporting of student achievement of curriculum expectations and learning skills.

Learning is the responsibility of the students. If students experience any kind of difficulty with their studies, access to remedial help is available from the teacher by arrangement. The teacher may contact parents/guardians regarding any concerns about student progress and achievement.

A parent/guardian may contact the teacher regarding any concern or issue about student progress and achievement in person (preferably by appointment), by phone (416) 394-3180, or via email at angel.chor@tdsb.on.ca.

ACCOMMODATIONS FOR EXCEPTIONAL AND ESL/ELD STUDENTS

Appropriate accommodations for exceptional and ESL/ELD students are provided by the teacher following recommendations as outlined in each identified student's Individual Education Plan (IEP) and/or Annual Education Plan (AEP). See student agenda for more information.

ASSESSMENT/EVALUATION

The assessment/evaluation in this course may consist of a combination of the following:

- Mini-Test/Tests
- Notebook
- Presentations
- Assignments
- Culminating Investigation
- Written Exam

See student agenda for detailed information on school policies regarding attendance, absences, late, homework, late assignments, missed work/evaluations, and academic integrity.

SUMMATIVE EVALUATION*

Summative evaluation is represented by a percentage grade which is a weighted average of the four achievement categories as outlined in the Ontario curriculum documents:

Achievement Categories	Knowledge	Thinking/Inquiry	Communication	Application
Percentage Weightings	30%	20%	20%	30%

Term Evaluation (70%):

Unit	Topic	Approx. Time	Evaluations
1	Statistics for One Variable	11 Hours	Mini-Tests (On-going) 10 wt. Unit Test (End of unit) 20 wt.
2	Statistics for Two Variables	12 Hours	Mini-Tests (On-going) 10 wt. Unit Test (End of unit) 20 wt.
3	Permutations and Organized Counting	12 Hours	Mini-Tests (On-going) 10 wt. Unit Test (End of unit) 20 wt.
4	Combinations and Binomial Theorem	12 Hours	Mini-Tests (On-going) 10 wt. Unit Test (End of unit) 20 wt.
5	Introduction to Probability	12 Hours	Mini-Tests (On-going) 10 wt. Unit Test (End of unit) 20 wt.
6	Probability Distributions	12 Hours	Mini-Tests (On-going) 10 wt. Unit Test (End of unit) 20 wt.
7	Normal Distribution	13 Hours	Mini-Tests (On-going) 10 wt. Unit Test (End of unit) 20 wt.
8	Culminating Investigation (10%) * Students are expected to invest their own time outside school to complete task.	12 Hours (In Class)	Written Investigation Paper Oral Presentation (Power Point) Due after winter break (TBA)

Each in-class assignment is worth a weight of 10, and each take-home assignment is worth a weight of 5.

Final Evaluation (30%):

Final evaluations cover all strands and overall curriculum expectations of the course, across all four achievement categories.

Final Exam	20%	End of course
Culminating Activity	10%	End of course

*Subject to change with further written notice

I have read the above information and I understand the expectations of this course.

Student Signature: _____

Parent/Guardian Signature: _____