COURSE STATEMENT
MDM 4U

LAMBTON CENTRAL COLLEGIATE AND VOCATIONAL INSTITUTE

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Welcome to Data Management. This is a summary sheet for parents and students which outlines our course evaluation and expectations.

TEACHER: **TEXT: Mathematics of Data Management**
McGraw-Hill Ryerson

Course Name: Grade 12 U Mathematics of Data Management
Course Code: MDM 4U
Credit Value: 1
Ministry Document: The Ontario Curriculum Grades 11 and 12, Mathematics, 2007
Development Date: April 2007

Mission Statement:

Teachers at LCCVI are dedicated to providing the following:
- ✓ access for all students
- ✓ a safe learning environment
- ✓ quality educational opportunities
- ✓ high professional standards

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 process necessary for success in senior mathematics. Students planning to enter university programs in business, the social science and the humanities will find this course of particular interest.

Overall and Specific Curriculum Expectations:

Refer to the Ministry of Education document entitled "The Ontario Curriculum, Grades 11 and 12: Mathematics, 2007 (revised) "which is available in the main office, from your teacher, or on the Ministry of Education website http://www.edu.gov.on.ca/eng/curriculum/secondary/math.html

NOTE: Due to the Ministry of Education's recently published Growing Success document, changes to Assessment and Evaluation practices may need to occur.

Course Content Outline:

A. Counting and Probability

1. solve problems involving the probability of an event or a combination of events for discrete sample space

2. solve problems involving the application of permutations and combinations to determine the probability of an event

B. Probability Distribution

1. demonstrate an understanding of discrete probability distributions, represent them numerically, graphically, and algebraically, determine expected values and solve related problems from a variety of applications

2. demonstrate an understanding of continuous probability distributions, make connections to discrete probability distributions, determine standard deviations, describe key features of the normal distribution, and solve related problems from a variety of applications

C. Organization of Data for Analysis

1. demonstrate an understanding of the role of data in statistical studies and the variability inherent in data, and distinguish different types of data

2. describe the characteristics of a good sample, some sampling techniques, and principles of primary data collection, and collection and organize data to solve a problem

D. Statistical Analysis

1. analyze, interpret, and draw conclusions from one-variable data using numerical and graphical summaries.

2. analyze, interpret, and draw conclusions from two-variable data using numerical, graphical and algebraic summaries.

3. demonstrate an understanding of the applications of data management used by the media and the advertising industry and in various occupations.

E. Culminating Data Management Investigation

1. design and carry out a culminating investigation that requires the integration and application of the knowledge and skill related to the expectations of the course.

2. communicate the findings of a culminating investigation and provide constructive critiques of the investigation of others.

Assessment and Evaluation Strategies:

There are four achievement categories of knowledge and skills that encompass all the curriculum expectations in the Ontario Curriculum for Data Management. The four categories and their value for the term are as follows:

Knowledge	30%
Thinking	20%
Communication	20%
Application	30%

The breakdown of your mark will be based on your level of achievement as follows:

<u>**Term Work –**</u> 60%
The above achievement categories will be used to evaluate tests, quizzes, assignments, etc. as part of your term mark.

<u>**Final Examination / Culminating Activity –**</u> 20% / 20%
<u>All students</u> must participate in the culminating activity sometime during the last two weeks of the semester, where applicable, and / or write a final examination based on the entire semester's work during the end of semester exam period. There are no exemptions for this exam.

<u>**Learning Skills**</u>
Provincial Report Cards will be marked with each student's performance in the five Learning Skills areas:
 1. Responsibility   2. Organization   3. Independent Work   4. Collaboration   5. Initiative   6. Self-Regulation

These Learning Skills will be assessed regularly by your teacher. They are an important statistic to understand how well students perform in the class. These are not considered in the determination of the final grade. For each of the Learning Skills one of the following achievement letters will be given:
 E = Excellent   G = Good   S = Satisfactory   N = Needs Improvement

<u>**ATTENDANCE**</u>
Regular attendance is vital to the process of learning. When the process and content of learning is disrupted by irregular attendance, both the individual and his/her classmates suffer a loss of experience that cannot be entirely regained. Students who miss class will suffer in the process because their participation and achievement cannot be fully assessed. Students are expected to complete any expectations missed due to absence.

<u>**ACADEMIC HONESTY**</u>
<u>**Consequences for Academic Dishonesty on Assignments:**</u>
Professional judgment of the teacher is taken into account to determine the degree of academic dishonesty and appropriate consequences.

<u>**Grades 9 and 10**</u> – Student will redo the assigned work. The student will receive a 25 per cent deduction on their assignment. If assignment is not completed and handed in within the time frame specified by the teacher, a mark of zero will be recorded. Subsequent occurrences may result in a mark of zero.

<u>**Grade 11**</u> - Student will redo the assigned work. The student will receive a 50 per cent deduction on their assignment. If assignment is not completed and handed in within the time frame specified by the teacher, a mark of zero will be recorded. Subsequent occurrences may result in a mark of zero.

<u>**Grade 12**</u> – A mark of zero will be assigned. There will be no opportunity for the assignment to be re-evaluated.
Note: Consequences may vary depending on the grade and level of a course.

<u>**Consequences for Academic Dishonesty on Tests:**</u>
1. Teacher has a conversation with the student about the incident.
2. If cheating has been determined, the student is assigned a mark of zero.
3. Parents are informed if student is under 18 years old.
4. In Grades 9 to 12, administration is informed if situation is not resolved.

<u>**Consequences for Academic Dishonesty on Exams:**</u>
1. If cheating is suspected during the exam, student is allowed to complete exam.
2. If cheating has been determined during or after the exam there will be a conference involving administration, teacher and the student.
   A mark of zero will be assigned.
3. Parents are informed if student is under 18 years old.

<u>**Appeals Process:**</u> Appeals will be requested through the teacher to the administration if the situation is not resolved.

<u>**LATE POLICY**</u>
The staff and students of LCCVI recognize that deadlines need to be in place to help students develop time management skills and strategies. Where in the teacher's professional judgment it is appropriate to do so, a number of strategies may be used to help prevent and/or address late and missed assignments. After many of these strategies have been implemented and documented, the teacher may deduct marks for a late assignment.

Students are expected to submit all assignments within the time frame specified by the teacher. Teachers will consider extenuating circumstances when assignments are late. If an assignment is late, **10% <u>MAY</u>** be deducted per school day, up to a maximum of **30%**. Once assignments have been returned to students, any late submissions **<u>MAY</u>** receive a mark of zero.