

# COURSE STATEMENT

## MCT 4C1

### LAMBTON CENTRAL COLLEGIATE AND VOCATIONAL INSTITUTE

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Welcome to Grade 12 Mathematics for College Technology. This is a summary sheet for parents and students which outlines our course evaluation and expectations.

**TEXT: Mathematics for College Technology 12**

**Course Name: Mathematics for College Technology, Grade 12, College Preparation**

**Course Code: MCT 4C1**

**Credit Value: 1 credit**

**Ministry Document: The Ontario Curriculum Grade 12, Mathematics, 2007 Revised**

**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 enables students to extend their knowledge of functions. Students will investigate and apply properties of polynomial, exponential, and trigonometric functions; continue to represent functions numerically, graphically, and algebraically; develop facility in simplifying expressions and solving equations; and solve problems that address applications of algebra, trigonometry, vectors, and geometry. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for a variety of college technology programs.

#### **Overall and Specific Curriculum Expectations:**

Refer to the Ministry of Education document entitled "The Ontario Curriculum Grade 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/subjects.html>)

#### **Course Content Outline**

##### Exponential Functions

- Solving exponential equations graphically.
- Solving exponential equations algebraically using common bases and logarithms.

## Polynomial Functions

- Investigating graphs of polynomial functions.
- Connecting graphs and equations of polynomial functions.
- Solving problems involving polynomial equations.

## Trigonometric functions

- Applying trigonometric ratios; solving problems using the primary trigonometric ratios, the sine law and the cosine law.
- Connecting graphs and equations of sinusoidal functions.
- Solving problems involving sinusoidal functions.

## Applications of Geometry

- Representing vectors, adding and subtracting vectors.
- Solving problems using vector models.
- Solving problems involving two and three-dimensional geometry.
- Solving problems involving circle properties.

### **Assessment and Evaluation Strategies:**

There are four achievement categories of knowledge and skills that encompass all the curriculum expectations in the Ontario Curriculum for MCT 4C1. The four categories and their value for the term are as follows:

<b>Knowledge</b>	<b>35%</b>
<b>Thinking</b>	<b>15%</b>
<b>Communication</b>	<b>20%</b>
<b>Application</b>	<b>30%</b>

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

### **Term Work - 70%**

The above achievement categories will be used to evaluate tests, quizzes, assignments, etc. as part of your term mark.

### **Final Examination / Culminating Activity – 30%**

***All students 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.***

### **Learning Skills**

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**

### **ATTENDANCE**

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.

## **CELLPHONE USE**

Cellphones are to be silenced and away during instructional time.

Cellphones are not to be used as calculators

Cellphones can be used for music with headphones during independent work time.

Other uses require permission from the teacher.

## **ACADEMIC HONESTY**

### **Consequences for Academic Dishonesty on Assignments:**

Professional judgment of the teacher is taken into account to determine the degree of academic dishonesty and appropriate consequences.

**Grades 9 and 10** – 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.

**Grade 11** - 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.

**Grade 12** – 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.

### **Consequences for Academic Dishonesty on Tests:**

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.

### **Consequences for Academic Dishonesty on Exams:**

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.

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

## **LATE POLICY**

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% MAY** be deducted per school day, up to a maximum of **30%**. Once assignments have been returned to students, any late submissions **MAY** receive a mark of zero.