

COURSE STATEMENT MCR3U1

LAMBTON CENTRAL COLLEGIATE AND VOCATIONAL INSTITUTE

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Welcome to Grade 11 University Preparation Mathematics. This is a summary sheet for parents and students which outlines our course evaluation and expectations.

TEACHER:

TEXT: Functions 11

Course Name: Functions, Grade 11 University Preparation Mathematics

Course Code: MCR 3U1

Credit Value: 1 credit

Ministry Document: The Ontario Curriculum Grade 11, 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 introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; investigate inverse functions; and develop facility in determining equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Overall and Specific Curriculum Expectations:

Refer to the Ministry of Education document entitled "The Ontario Curriculum Grade 11, Mathematics, 2006 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:

Characteristics of Functions

- ◆ Understand functions, their representations, and their inverses
- ◆ Make connections between the algebraic and graphical representations of functions using transformations
- ◆ Determine the zeros and the maximum or minimum of a quadratic function
- ◆ Solve problems involving quadratic functions
- ◆ Understand equivalence as it relates to simplifying polynomial, radical, and rational expressions

Exponential Functions

- ◆ Evaluate powers with rational exponents
- ◆ Simplify expressions containing exponents
- ◆ Describe properties of exponential functions represented in a variety of ways
- ◆ Make connections between various representations of exponential functions
- ◆ Solve problems involving exponential functions

Discrete Functions

- ◆ Understand recursive sequences
- ◆ Understand arithmetic and geometric sequences and series, and solve related problems
- ◆ Solve problems involving compound interest and ordinary annuities

Trigonometric Functions

- ◆ Determine the values of trigonometric ratios for angles less than 360°
- ◆ Prove simple trigonometric identities
- ◆ Solve problems using the primary trigonometric ratios, the sine law, and the cosine law
- ◆ Understand periodic relationships and sinusoidal functions
- ◆ Make connections between the numeric, graphical, and algebraic representations of sinusoidal functions
- ◆ Solve problems involving sinusoidal functions

Assessment and Evaluation Strategies:

There are four achievement categories of knowledge and skills that encompass all the curriculum expectations in the Ontario Curriculum for MCR 3U1. 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:

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.

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 **50%**. Once assignments have been returned to students, any late submissions **MAY** receive a mark of zero.

Please sign and return this to your teacher by _____. Should you have any questions or concerns, please contact the teacher at 882-1910.

I have read and understand the handout on course expectations and evaluation policies.

Student Signature: _____ Parent/Guardian Signature: _____

Date: _____ Date: _____