J. Keane, Principal

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Course: Principles of Mathematics   **Course Code:** MCR3U   **Grade:** 11
Course Type: University Preparation   **Credit Value:** 1   **Prerequisite:** MPM2D
Curriculum Document: *Mathematics, Grades 11 and 12, 2005, Revised*
Textbook: Nelson Functions 11   **Teacher**: S. Patchett

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

Required Materials:
Students are expected to come to class every day prepared with:

3 ring binder	lined paper	graph paper
ruler	scientific calculator	pencils/pens
eraser	protractor	

Units of Study:

1.	Introduction to Functions	5.	Trigonometric Ratios
2.	Equivalent Algebraic Expressions	6.	Sinusoidal Functions
3.	Quadratic Functions	7.	Sequences and Series
4.	Exponential Functions	8	Financial Applications

Evaluation: A students final grade in the course will be determined as follows:

70 % TERM MARK A students term mark will include a variety of evaluations such as tests, quizzes, assignments and presentations and will be marked according to the following weightings.

Knowledge and Understanding	30%	Application	30%
Communication	20%	Thinking and Inquiry	20%

30 % SUMMATIVE EVALUATION   Will be made up entirely of a 30% final examination.

Late Policy:
Students are expected to submit all assignments within the time frame specified. While teachers will consider extenuating circumstances, late students are subject to mark deductions. If an assignment is late, a penalty of 10% per school day will be deducted, up to a maximum of 50%. Once assignments have be returned to the class, late submissions may receive a mark of **zero**.

Student Expectations: In order to be successful in MCR3U all students must:

1.   Attend class every day:
If you are absent it is YOUR responsibility to obtain notes from a classmate, catch up on missed work, find out about any upcoming evaluations and see the teacher if you need assistance.

2.   Arrive to class prepared to work physically and mentally:
Class time is precious and will not be wasted going to your locker or to the washroom. Make sure you bring the required materials, use the washroom during breaks and are in your seat ready to work when the bell rings.

3.   Complete and check all homework:
Homework and assignments are crucial to your success in mathematics because they help to solidify and check your understanding of the topic. Homework and assignments should be completed on the day they are assigned and will be checked, taken up or discussed in class. If you have difficulty with the homework extra help is **always** available but it is up to YOU to ASK.

4.   Make arrangements for any missed tests/quizzes.
If you know you are going to be away on the day of a test (sport/club etc) make sure you make arrangements with the teacher to write the test at an alternate time.
For unexpected absences, see the teacher BEFORE CLASS on the day you are back at school. Tests or quizzes missed due to TRUANCY will result in a mark of ZERO.

5.   Use of Technology in Class:
In this course you will frequently use technology to complement and enhance traditional learning techniques. It is expected that students have their ipad (or other appropriate technology) with them every day. Assignments and notices will regularly be posted via Google Classroom (and students will be expected to submit some work electronically). Students will regularly use graphing technology (Desmos, GraphcalcHD, etc.) to assist them in better understanding functions and relations. Inappropriate use of technology during class is completely unacceptable and will be dealt with according to the schools policy outlined in the student planner.

6.   Academic Integrity:
In this university level mathematics course, there will be zero tolerance for academic dishonesty. While comparing final answers on assignments is encouraged, students should complete all individual assignments individually. Assignments that are clearly group work or copied will receive a mark of zero. Never photocopy, scan or lend your assignment to another student as both assignments will be penalized equally for copied work.

I understand the above expectations and I am ready to be successful in mathematics.

_____   _____
STUDENTS SIGNATURE   PARENT'S SIGNATURE