

Math 1051

Functions and Trigonometry

Tuesday/Thursday, 5:30—7 P.M., Braun Building 1054

Lab: Wednesday, 3:30—5:30 P.M., Regional Centre 1003

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website: To be determined

Office Location: Ryan Building 2006

Office Hours: Tuesday 4:30—5:30 P.M., Wednesday 2:30—3:30 P.M.

Course Description: Math 1051 covers the essential mathematics found in Grade 12 Advanced Functions. Topics include functions and graphs, trigonometric identities, quadratic functions, and inequalities.

Prerequisite(s): None.

Text: *Essentials of Technical Mathematics with Calculus*, 2nd Edition

Author(s): Richard Paul and M. Leonard Shaevel; **ISBN-13:** 978-0132891998

Grade Distribution:

Assignments	10%
Midterm Exam 1 (Thursday 9 October)	25%
Midterm Exam 2 (Thursday 13 November)	25%
Final Exam	40%

A note on grading: Your final mark will be calculated in two ways: I will either use the weighting given above, or drop the lowest midterm mark, and move its weight to the final. Your mark will be the higher of the two.

Assignments: There will be ten weekly assignments, due on Thursdays at the beginning of class. The lowest homework mark will be dropped, and the remaining nine assignments will be used in calculating your final grade. Please note that late assignments will not be accepted. Assignments should be stapled once at the top left, and include the class name and assignment number, as well as your name and student number, on the first page. Students are encouraged to work together to understand the concepts in each assignment, but copying is not allowed.

Tentative Course Outline:

The weekly coverage might change, as it depends on the progress of the class. However, you must keep up with the reading assignments. Note these important dates:

- Thursday 9 October: Midterm Exam 1 (in class)
- Monday 13 October: Thanksgiving—no classes
- Monday 4 November: Last day to drop without academic penalty
- Thursday 13 November: Midterm Exam 2 (in class)
- Monday 1 December: Last day of classes for the Fall term
- Thursday 4 December: First day of final exams
- Wednesday 17 December: Last day of final exams
- Thursday 18 December: Contingency date for exams

Week ending	Content
13 September	<ul style="list-style-type: none">• Course overview and preliminary topics, such as operations on the real numbers.
20 September	<ul style="list-style-type: none">• Linear equations
27 September	<ul style="list-style-type: none">• Functions and graphs
4 October	<ul style="list-style-type: none">• Trigonometric identities
11 October	<ul style="list-style-type: none">• Trigonometric functions
18 October	<ul style="list-style-type: none">• No classes on Thanksgiving, Monday 14 October• Review for Midterm Exam 1
25 October	<ul style="list-style-type: none">• Trigonometric functions continued
1 November	<ul style="list-style-type: none">• Sequences and series
8 November	<ul style="list-style-type: none">• Last day to drop without academic penalty is Tuesday 4 November• Review for Midterm Exam 2• Sequences and series continued
15 November	<ul style="list-style-type: none">• Inequalities
22 November	<ul style="list-style-type: none">• Quadratic Equations
29 November	<ul style="list-style-type: none">• Review for Final Exam
6 December	<ul style="list-style-type: none">• Last day of class is Monday 1 December• Final exam period begins on Thursday 4 December and ends on Wednesday 17 December