

INTRODUCTION TO MATH 0100

Instructor's name: Sukhvir Sandhu_

Phone number: 539-2810

Instructor's office: C310

Email: ssandhu@gprc.ab.ca

Calendar Description:

MA 0100 High School Preparatory Mathematics 5 (5-0-0) Time: 75 Hours

Description: The course includes a review of basic computational skills, number sets, exponents, basic operations on polynomials including factoring, equations, and inequalities, algebraic word problems, introduction to trigonometry, shape and space geometry, graphing and data analysis.

Prerequisite: [MA0090](#) or equivalent math placement test score.

Resource requirements:

Package of Ma0100 modules, 2004

Scientific calculator

Attendance:

Regular attendance is expected of all students in all mathematics courses. Your success in math is directly linked to your attendance. Attendance will be taken during class. Any student **missing more than 7 classes may be debarred from writing the final exam.**

Course Delivery and Evaluation:

This course is divided into 10 separate units called modules. The instructions for each topic are given in the modules, followed by several examples and exercises. Study the instructions and work through the examples before starting each exercise. The answers for each exercise are given at the end of the module. Check your work **often** to make sure you understand each new topic.

The key to success in working with modules is to **ask questions** whenever you have difficulty understanding the instructions, the examples, or the exercises. **Do not hesitate to ask for help.**

After each module you must write a test. When writing a test, be sure to show all of your work on the test paper. Marks are given for method as well as final answer. A passing mark of 60% is required on the test before continuing on to the next module. If you are unable to attain this mark, you must review the material and rewrite the test. The first and second test mark will be averaged.

A 50-minute midterm, which will cover the first five modules, must be written by **Thursday, May 26**. If you miss this date, you will receive a mark of 0% on your midterm. Upon completion of all the course modules, you will write a three hour final exam. Be sure to leave time to prepare for these important exams! They are worth a large percentage of your final grade.

The recommended test date for each module and the midterm is on the next page. Follow these dates as closely as you can. You are encouraged to write a test early if you are prepared. **Consult your instructor immediately if you find yourself falling behind schedule.** Your instructor may need to reassess your math skills to ensure that you are placed in a course where you can be successful. **All tests must be written by June 20, 2005.**

Your final mark is determined by:

Bonus
 When you write your module tests on or before the given date, you will be awarded an additional 2% on your score for each test.

10 module tests	40%
Midterm	20%
Final Exam	40%

Final grades are given as follows:

Alpha Grade	4-Point Equivalent	Percentage Guidelines	Designation
A+	4.0	90 - 100	Excellent
A	4.0	85 - 89	
A-	3.7	80 - 84	First Class Standing
B+	3.3	76 - 79	
B	3.0	73 - 75	Good
B-	2.7	70 - 72	
C+	2.3	67 - 69	Satisfactory
C	2.0	64 - 66	
C-	1.7	60 - 63	
D+	1.3	55 - 59	Minimal Pass
D	1.0	50 - 54	
F	0.0	0 - 49	<i>Fail</i>

MA0100 – Spring 2005

Module	TOPIC/DESCRIPTION	Recommended Time & Test Date	Date written	Your Mark
1	Review - basic notations - decimals, fractions & integers - four basic operations - order of operations, percent	May 4		
2	Numbers - sets	May 6		
3	Exponents - laws of exponents - scientific notation	May 11		
4	Introduction to Polynomials - four basic operations	May 17		
5	Products and Factoring - binomial multiplication - factoring, common factor - trinomials and difference of squares	May 24		
	MIDTERM - must be written on or before	Thursday May 26		
6	Equations and Inequalities - solving - evaluating expressions, formulas - rearranging formulas	June 2		
7	Language of Algebra - writing algebraic expressions - writing algebraic equations - word problems	June 8		
8	Geometry - plane geometry	June 10		
9	Trigonometry - congruent & similar triangles - tangent, sine & cosine with applications	June 16		
10	Graphs & Data Analysis	June 20		
	FINAL EXAM - 3 HOURS	June 22		