



Grande Prairie Regional College
Department: Academic Upgrading

COURSE OUTLINE—FALL (Evening) 2007

INTRODUCTION TO MATH 0110

Instructor: Katrina Kloster

Phone number: 539-2810; 532-0970 (h)

Instructor's office: A210

Email: kkloster@gprc.ab.ca

Office Hours: 5:30 – 6:00 pm or by appointment

Calendar Description:

MA 0110 Mathematics Grade 10 Equivalent (Pure) 5 (5-0-0) Time: 75 Hours

Description: This course first reviews number systems and then explores exponents, radicals, polynomials, probability, coordinate geometry, and introduction to functions, trigonometry (including sine and cosine laws) and statistics.

Prerequisite: [MA0100](#) or equivalent math placement test score.

Resource requirements:

Package of Ma0110 modules, 2004 or 2005

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 6 classes may be debarred from writing the final exam.**

Course Delivery and Evaluation:

This course is divided into 9 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 October 2**. 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 Thursday December 6, 2007.**

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.

Your final mark is determined by:

9 module tests	45%
Midterm	20%
Final Exam	35%

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>

MA0110 – FALL (Evening) 2007

Module	TOPIC/DESCRIPTION	Recommended Time & Test Date	Date written	Your mark
1	Review	6 days Sept. 13 Thursday		
2	Polynomials - evaluating polynomials; - four basic operations	8 days Sept. 25 Tuesday		
3	Factoring - common factors, trinomials and difference of squares; solving by factoring	7 days Oct. 4 Thursday		
4	Radicals & Exponents -simplifying radicals, four basic operations with radicals, rationalize denominators, and rational exponents	7 days Oct. 16 Tuesday		
5	Probability	5 days Oct. 23 Tuesday		
	MIDTERM - must be written on or before	Thursday Oct. 25		
6	Co-ordinate Geometry I - Line Segments - distance between points, midpoints, slope, parallel and perpendicular line segments	8 days Nov. 6 Tuesday		
7	Co-ordinate Geometry II - The Straight Line - rectangular co-ordinate system, equations of lines, graphing linear equations and inequalities	7 days Nov. 15 Thursday		
8	Introductions to Relations and Functions -relations, functions, evaluating functions, linear functions, direct variation	7 days Nov. 27 Tuesday		
9	Trigonometry - Pythagorean Theorem, sin, cos, tan, applications	7 days December 6 Thursday		
	FINAL EXAM - 3 HOURS	T.B.A. Dec.10-Dec. 18		