Grande Prairie Regional College
School of Business
Department: Academic Upgrading

COURSE OUTLINE—WINTER 2006

INTRODUCTION TO MATH 0110

Instructor's name: _____ Phone number: _____

Instructor's office: _____ Email: _____

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 15 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 **Friday Feb. 17**. 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, April 13, 2006.**

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	36%
Midterm	20%
Final Exam	40%
Attendance	4%

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	*Fail*

MA0110 – Winter 2006

Module	TOPIC/DESCRIPTION	Recommended Time & Test Date	Date written	Your mark
1	Review	7 days Jan. 12 Thursday		
2	Polynomials - evaluating polynomials; - four basic operations	6 days Jan. 20 Friday		
3	Factoring - common factors, trinomials and difference of squares; solving by factoring	7 days Jan 31 Tuesday		
4	Radicals & Exponents -simplifying radicals, four basic operations with radicals, rationalize denominators, and rational exponents	7 days Feb. 9 Thursday		
5	Probability	4 days Feb. 15 Wednesday		
	MIDTERM - must be written on or before	**Friday Feb. 17**		
6	Co-ordinate Geometry I - Line Segments - distance between points, midpoints, slope, parallel and perpendicular line segments	7 days March 7 Tuesday		
7	Co-ordinate Geometry II - The Straight Line - rectangular co-ordinate system, equations of lines, graphing linear equations and inequalities	8 days March 17 Friday		
8	Introductions to Relations and Functions -relations, functions, evaluating functions, linear functions, direct variation	7 days March 28 Tuesday		
9	Trigonometry - Pythagorean Theorem, sin, cos, tan, applications	10 days April 11		

		Tuesday		
	FINAL EXAM - 3 HOURS	**T.B.A**. **(April 17- 25)**		