Grande Prairie Regional College
School of Business
Department: Academic Upgrading

COURSE OUTLINE—WINTER 2006

INTRODUCTION TO MATH 0100

Instructor's name: _____ Phone number: _____

Instructor's office: _____ Email: _____

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, 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 during the semester 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 **Friday February 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**

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.

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.**

Your final mark is determined by:

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	*Fail*

MA0100 – Winter 2006

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	5 days Jan. 10 Tuesday		
2	Numbers - sets	3 days Jan. 13 Friday		
3	Exponents - laws of exponents - scientific notation	7 days Jan. 24 Tuesday		
4	Introduction to Polynomials - four basic operations	8 days Feb. 3 Friday		
5	Products and Factoring - binomial multiplication -factoring, common factor -trinomials and difference of squares	9 days Feb. 15 Wednesday		
	MIDTERM - must be written on or before	**Friday Feb. 17**		
6	Equations and Inequalities -solving -evaluating expressions, formulas -rearranging formulas	10 days March 10 Friday		
7	Language of Algebra -writing algebraic expressions and equations -word problems	6 days March 20 Monday		
8	Geometry -plane geometry	5 days March 27 Monday		
9	Trigonometry - congruent & similar triangles - tangent, sine & cosine with applications	7 days April 5 Wednesday		
		4 days		

10	Graphs & Data Analysis	April 11 Tues		
	FINAL EXAM - 3 HOURS	**TBA (April 17 - 25)**		