## GRANDE PRAIRIE REGIONAL COLLEGE

## MATH 0130 FULL YEAR COURSE COURSE OUTLINE FALL 1993 - WINTER 1994

INSTRUCTOR:

Sukhvir Sandhu

CLASS TIME:

MWF

8:00 a.m. - 8:50 a.m.

OFFICE:

Room C204

OFFICE PHONE:

539-2831

OFFICE HOURS:

11:00 am - 12:00 pm

1:30 pm - 2:20 pm T/R. Other times by appointment.

PREREQUISITE:

MA 0120 or MA 0130 placements.

Recommended: at least 5 or 6 in MA 20/MA 0120.

TEXT BOOK:

College Algebra and Trigonometry by Jerome E. Kaufmann.

REQUIRED SUPPLIES:

Binder, looseleaf, plastic covers, staples, pencil, pen, and calculator with

trigonometric functions and exponential functions, math set.

COURSE GOALS:

This course is designed to provide the students an understanding of polynomials, logarithms, trigonometry, sequence and series, quadratic functions, statistics, permutation and combinations, and probability. This course prepares the student for university transfer mathematics courses. The student will develop problem solving skills and gains an appreciation

of the mathematics of modern society.

ATTENDANCE:

Regular attendance is expected from all students and is essential for passing the course. Students who miss classes will find themselves falling behind and failing. Any student missing 10% of scheduled class

time or more may not be permitted to write the final exam.

TESTS AND ASSIGNMENTS: There are four class tests, three take home tests, and three assignments. Any student not taking a test on a test date will receive zero for that test unless a medical certificate is supplied. College team members must notify the instructor <u>prior</u> to the test date if they are to be away. There will be a 1" final exam after the first four units. There will be a 2<sup>nd</sup> final exam after finishing the whole course.

Assignments should be handed in on the specified dates.

Late assignments will be decreased by 10% per day and they will not be

accepted after 2 days.

**EVALUATION:** 

Assignments 9% [3% each]
Class tests 35% [5% each]
1" Final Exam 28%
TOTAL 28%
100%

## GRADING:

9-point Grade	Percentage Equivalence		Designation
9	90 - 100	Excellent	
8	80 - 89		
7	72 - 79		
6	65 - 71		Good
5	57 - 64		
4	50 - 56	-	Pass
3	45 - 49	-	Fail
2	26 - 44		
1	0 - 25		

- Any student wishing to change their registration for fall courses must do so officially before September 13.
- Any student wishing to withdraw from the course must do so officially before <u>March 4</u> in order to avoid receiving a failing grade.

UNIT 1	TOPIC/DESCRIPTION  Review (Text References: Chapter 1,2,3,4)  - Numbering system  - Factoring quadratic equation  - Co-ordinate geometry  - Concept of a function and relations	
2	Polynomial functions (Text References: Chapter 6) - Dividing polynomials - The remainder and factor theorems - Polynomial equations - Graphing polynomial functions	
3	Exponential and Logarithmic Functions (Chapter 5) - Exponents and exponential functions - Applications of exponential functions - Logarithms - Logarithmic functions - Exponential and logarithmic equations; problem solv	

- Compilation with common logarithms

MA 0130	Full	Year	Course
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4	Conic section (Chapter 3, 12) - Circles - Parabolas - Ellipses - Hyperbolas
5	Trigonometric Functions, Graphing Trigonometric Functions, Trigonometric Equations (Chapter 7, 8, 9)
6	Sequences and Series (Chapter 13) - Arithmetic sequences - Geometric sequences - Problem solving
7	Counting Techniques, the Binomial Theorem - Permutations and combinations - The Binomial Theorem,
8	Statistics - Central tendency or ungrouped data - Mean and standard deviation for grouped data - Z-score and probability

ASSIGNMENTS:

1st Assignment from Unit 1

2nd Assignment from Unit 2 & 3

3rd Assignment from Unit 5

CLASS TESTS:

Unit 2 to unit 8