GRANDE PRAIRIE REGIONAL COLLEGE

MATH 0130 A23

COURSE OUTLINE

FULL YEAR; SEPT. 1992 - APRIL 1993

INSTRUCTOR: Sukhvir Sandhu

CLASS TIME: 3:00 p.m. - 3:50 p.m. M, W, F

OFFICE HOURS: Room C204   11:00 a.m. - 12:00 p.m.
                                      1:30 p.m. - 2:20 p.m. T, R

                                      Other times by appointment.

OFFICE PHONE: 539-2831

PREREQUISITE: MA 0120 or MA 0130 placements.
Recommended: at least 5 or 6 in MA 20/MA 0120.

TEXT: 9 Modules which will be supplied by the instructor at no cost to the student one at a time to be returned on test day.

REQUIRED SUPPLIES: Binder, looseleaf, pencil and pen, scientific calculator, math set, graph papers.

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 20% of scheduled class time or more may not be permitted to write the final exam. Classes will start right on time, so please arrive a few minutes early.

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| TESTS AND ASSIGNMENTS: | There are seven unit tests and four assignments in this course. Module tests will be written on specified dates during classroom time. Any student not attending class on a test date will receive a grade of 0 for that test unless a medical certificate is supplied. College team members must notify the instructor prior to the test date if they are to be away. |

There will be the 1st Final Exam after the first three unitl in the third week of December.

There will be the 2nd Final Exam after the next 4 units in the fourth week of April.

Assignments should be handed over on the specified dates.

EVALUATION:

Assignments	12% [3% each]
Tests	28% [4% each unit]
Mid-term exams	20%
Final Exam	40%
TOTAL	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	

1.   Any student wishing to withdraw from the course must do so officially before March 5 in order to avoid receiving a failing grade.

UNIT	TOPIC/DESCRIPTION

1	Polynomial Functions
	- remainder theorem;
	  factor theorem;
	  factoring, zeros and graphing

2	Logarithms - exponential functions, - logarithm laws & applications

3	Trigonometry A and B
	- circular path; unit circles; graphs;
	- Amplitude, period, phase shift and
	  vertical translation; solving equations.
	- Identities; sum forumulas; sine and consine
	  laws.

1ST FINAL   **3 HOUR**   **3RD WEEK OF DEC**

4	Sequence, series and limits. - arithmetic and geometric series - arithmetic and geometric sequences - infinite series and limits
5	Quadiatic Relations A and B - circles - parabola, ellipse, hyperbola and quadratic relations and coin sections.
6	Statistics - Mean and standard deviation of grouped and ungrouped data. - normal distribution - probability of normal distribution.
7	Permutation and Combination - Probability - Bionomial Theorem.

2ND FINAL   **3 HOUR**   **4TH WEEK OF APR**

ASSIGNMENTS: 1st Assignment from Unit 1 and 2

2nd Assignment from Unit 3

3rd Assignment from Unit 5

4th Assignment from Unit 6