

GRANDE PRAIRIE REGIONAL COLLEGE

MATH 0130 A2
COURSE OUTLINE
FALL 1993

INSTRUCTOR: Jean Nordin

CLASS TIME: M T W R F 10:00 am - 10:50 am

OFFICE : Room C206

OFFICE PHONE: 539-2810 or 539-2879

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

TEXT: College Algebra and Trigonometry, 2nd Edition.
Jerome E. Kaufman

REQUIRED SUPPLIES: 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 10% of scheduled class time or more may not be permitted to write the final exam.

TESTS AND ASSIGNMENTS: There are seven units in this course. Each unit will have a test and/or an assignment which will count 6% towards your final grade except for the Trigonometry Unit worth 9%. 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 a mid-term exam after the first three units. There will be a final exam after finishing the whole course with emphasis on the last half.

Assignments should be handed in on the specified dates.

Late assignments will be decreased by 5% per day and they will not be accepted after 3 class days.

EVALUATION:

Assignments & Tests	45%
Mid-term exams	15%
Final Exam	<u>40%</u>
TOTAL	<u>100%</u>

UNITTOPIC/DESCRIPTION

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|---|--|
| 1 | Conic Sections (parts of Chap. 3 and Chap. 12)
- circles, parabolas, ellipses, hyperbolas |
| 2 | Exponential & Logarithmic Functions (Chap 5)
- solving equations
- graphing
- problem solving |
| 3 | Polynomial Functions (Chap. 6)
- dividing polynomials
- the remainder factor theorems
- solving polynomial equations
- graphing polynomial functions |

MIDTERM EXAM1 HOUR

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|---|---|
| 4 | Statistics
- standard deviation
- normal distribution
- z-scores and probability |
| 5 | Trigonometry (Chap. 7, 8 & 9)
- trigonometric functions of any angle
- law of Cosines, law of Sines
- unit circle
- graphing trigonometric functions
- identities
- equations |
| 6 | Sequences (Chap. 13)
- arithmetic sequences
- geometric sequences |
| 7 | Counting Techniques, Probability and Binomial Theorem
- Probability
- Binomial Theorem |

FINAL EXAM3 HOURT.B.A.