GRANDE PRAIRIE REGIONAL COLLEGE
DEPARTMENT OF SCIENCE
COURSE OUTLINE

MATHEMATICS 204 A3

WINTER SEMESTER 1991 - 92

TITLE: Elementary Calculus II

SCHEDULE: Monday, Wednesday, Friday **9:00** am - 10:00 am **J 227**
Tuesday/Thursday **9:30** am - 10:50 am **E 306**

INSTRUCTOR: LakshmaREDDY Ganta

OFFICE: J 220

TELEPHONE: 539 - 2850

CONSULTATIONS: **Monday 10:00 am - 11:00 am**
Friday 10:00 am - 12:00 noon AND
ANY TIME THAT IS CONVENIENT TO BOTH YOU AND ME

TEXT:
i) Howard Anton; Calculus with Analytical Geometry (Third Edition/Brief Edition)
ii) Albert Herr; Student's Solution Manual to accompany (i)

COMPOSITION OF THE COURSE GRADE:

Final Exam	**35%**
Term Test - 1	**15%**
Term Test - 2	**20%**
Quizzes	**20%**
Assignments	**10%**

ASSIGNMENTS: Must be legible using proper notation.NO LATE ASSIGNMENTS. Any work handed in late will be marked for errors but will not receive a grade.

MATHEMATICS 204

MA 204 Elementary Calculus II
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Applications of integration to areas, volumes, work, arc lengths. Differentiation and integration of exponential, logarithmic and trigonometric functions. Techniques of integration. Indeterminate forms and improper integrals.

Prerequisite: MA 202, Ma 203 or MA 212

Detailed Description

Application of integration such as areas, volumes using the slab method, volumes of revolutions, the shell method, arc length, area of a surface of revolution, work, mass, moments, center of mass. The functions $\ln x$, e^x, other bases, logarithmic differentiation and integration, inverse trigonometric functions, their derivatives, hyperbolic functions - derivatives and integrals. Integration by parts, partial fractions, substitution, improper integrals, Taylor series.