Grande Prairie Regional College

Department of Business Administration

Business Mathematics and Statistics
BA 1050   3(3-1)

Course Outline   Fall 2003

Instructor: Jeff Nutting

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Required Text: S. A. Hummelbrunner. **Mathematics of Finance with
                              Canadian Applications (Fourth Edition)**. Toronto: Prentice Hall
                              (2001).

Course Description

This course emphasizes a range of mathematical calculations used in business. Topics such as simple interest, compound interest, annuities, amortization, sinking funds, statistical methods, and probability theory are covered. Practical applications will be emphasized in this course.

Prerequisite   Math 20 or Math 33

Transferability

In conjunction with BA 2060 (Statistics for Business), this course provides an exemption for CGA and CMA Quantitative Methods. As well it transfers to Math 244 at Athabasca University.

Course Evaluation

Quizzes and Assignments	20%
In class Random Assignments	10%
Mid Term Exam	30%
Final Exam	40%

Class Participation

To get the most out of this class, regular attendance and active participation is encouraged

Tentative Class Schedule

Topics

Introduction

Simple Interest: Future Value, Present Value, Prt

Promissory Notes, Simple Discount

Compound Interest: Future Value, Present Value

Compound Interest: Finding the Interest Rate & the Time

Equivalent Rates, Continuous Compounding, Equations of Value

Simple & General Annuities: Future Value, Present Value

Annuities Due: Future Value, Present Value, Perpetuities

Annuities: Interest Rate, Payment Amount, Number of Payments

Mortgages, Bond Valuation

Statistics: Random Sampling, Randomized Experiments,
Center and Spread of Distribution

Relative Frequency, Frequency Tables, Linear Transformations

Probability: Probability Models, Compound Events, Conditional Probability,
 Independence, Bayes Theory

The Instructor reserves the rights to change, or cancel, any of these Dates and Topics.