Grande Prairie Regional College
Department of Business Administration

Winter 2002

Business Mathematics and Statistics

BA1050 3(3-1)

Basic Course Information

Instructor: Sukhvir Sandhu Office No. E401 539-2438
Email: Ssandhu@gprc.ab.ca

Office Hours: Mon. 2:30 - 4:00,
Wed. 10:30 -11:30, or make an appointment.

Prerequisite: Math 20 or Math 33

Text: Mathematics of Finance with Canadian Applications, 4th Edition, S.A. Hummelbrunner, Prentice Hall.

This text will be used extensively in the course. All students should have a textbook.

Calculator: Sharp Business Financial (EL 733A)

Course Description: Emphasizes a range of mathematical calculations used in business. Introduction to simple interest, compound interest, annuities, amortization, sinking funds, statistical methods and probability theory. Practical applications will be emphasized in the course.

Course Objectives: To provide students with a knowledge of managerial mathematics, and introductory statistics.

Transferability: In conjunction with BA 2060, the course provides an exemption in CGA and CMA Quantitative Methods.

Grading:

Mid-term Exam	30%
Final Exam	30%
Each Quiz	10%

Tentative Class Schedule

Dates	Topics	Text	Due
Jan 3	Introduction		
Jan 4, 8, & 10	Simple Interest :F.V., PV, Prt	Ch. 1	
Jan 11, 15, & 17	Simple Interest Application: Promissory notes, Discount method, Treasury bills, Lines of credit	Ch. 2	
Jan 18, 22, & 24	Compound Interest: F.V., PV	Ch. 3	Q 1 (18)
Jan 25, 29, & 31	Compound Interest: Discounting Fractional Conversion Periods	Ch. 3 Ch. 4	
Feb 1, 5, & 7	Equivalent rates, Continuous Compounding	Ch. 4	Q 2 (7)
Feb 8, 12, & 14	Ordinary simple and General Annuities F.V., PV	Ch. 5	
Feb 15, 19, & 21	Review Ch 1- 5 & Midterm Exam		MT (30%)
March 5, 7, & 8	Annuities Due, F.V. & PV, Deferred Annuities Perpetuities	Ch. 6	
March 12, 14, & 15	Annuities: Finding R, n, and i	Ch. 7	
March 19, 21, & 22	Periodic Payments, Amortization of Loans Mortgages, Interest Rates	Ch. 7 Ch. 8	Q 3 (21)
March 26, 28, & Apr 2	Calculation of Final Payment Bond Valuation	Ch. 8 Ch. 9	
Apr 4, 5, & 9	Statistics: Sampling, Frequency table, Center & Spread of Distribution	Notes	Q 4 (9)
Apr 11, & 12	Probability: Compound Events, Conditional Probability, Bayes Theory	Notes	
Apr 15 - 30	Final Exam Scheduled by Registrar Chapter 6 - End of the course		Final (30%)