BUSINESS MATHEMATICS
AND
STATISTICS

BA 1050 3(3-1)

Basic Course Information

Instructor: Kathleen D. Frei
              Room C413
              539-2007

Office Hours: Mon. 12:00 - 1:30
               Wed. 11:30 - 1:00

Email: Frei@gprc.ab.ca

Prerequisite: Math 20 or Math 33

Text:
Mathematics of Finance with
Canadian Applications, 3rd Edition,
S.A. Hummelbrunner, Prentice Hall.

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

Grading:

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

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. Introduces
students to managerial economics with
emphasis on demand, supply, production and
costs. 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.

Tentative Class Schedule

Dates	Topic	Text	Due
Jan 4	Introduction		
Jan 8, 9, & 11	Simple Interest: F.V., PV, & Prt	Ch 1	
Jan 15, 16, & 18	Promissory notes, Discount method, treasury bills, lines of credit	Ch 2	
Jan 22, 23, & 25	Compound Interest: F.V., PV	Ch 3	Q 1 (22)
Jan 29, 30 & Feb 1	Compound Interest: Discounting Fractional Conversion Periods	Ch 3 Ch 4	
Feb 5, 6, & 8	Equivalent rates, Continuous Compounding	Ch 4	Q 2 (8)
Feb 12, 13, & 15	Ordinary Simple & General Annuities F.V., PV,	Ch 5	
Feb 20, & 22	Review Ch 1 - 5 & Midterm Exam		MT (30%)
Mar 5, 6, & 8	Annuities Due, F.V. & PV, Deferred Annuities Perpetuities	Ch 6	
Mar 12, 13, & 14	Annuities: Finding R, n, or i,	Ch 7	
Mar 19, 20, & 22	Periodic payments, Amortization of Loans Mortgages, Interest Rates	Ch 7 Ch 8	Q 3 (20)
Mar 26, 27, & 29	Calculation of Final Payment Bond Valuation	Ch 8 Ch 9	
Apr 2, 3, & 5	Statistics: Sampling, Frequency tables, Center & spread of Distribution,	Notes	Q 4 (5)
Apr 9, 10 & 12	Probability: Compound Events, Conditional Probability, Independence, Bayes Theory	Notes	
Apr 16 - 30	Final Exam Scheduled by Registrar Chapter 6 - end of the course		Final (30%)