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Grande Prairie
Regional College

**GRANDE PRAIRIE REGIONAL COLLEGE
BUSINESS ADMINISTRATION
COURSE OUTLINE**

WINTER 1998/1999

BA 1050 – BUSINESS MATH AND STATISTICS

CREDITS: 3 HOURS PER WEEK: 3 LECTURE/ 1 LAB

- PREREQUISITE:** Math 20, Math 30, Math 33 or Equivalent
- TRANSFERABILITY:** In conjunction with BA2060, this course provides an exemption in CGA and CMA Qualitative Methods
- INSTRUCTOR:** Kamelia Djonova
- OFFICE:** C 301
- TELEPHONE:** 538-4363 (a.m. only)
539-0224 (home: any time p.m.)
- E-MAIL:** studio29@telusplanet.net
- OFFICE HOURS:** Mondays 4:30-5:30 p.m.; Thursdays 1:30-2:30 p.m. or by appointment. Students are encouraged to contact the instructor at any time by telephone or E-mail
- MATERIALS:** **Mathematics of Finance with Canadian Applications**, Third Edition; S.A. Hummelbrunner, Prentice Hall
The above text will be used as core material and/or supplement to handouts to be distributed throughout the course.
- COURSE DESCRIPTION:** The course 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.

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| GRADING: | 3 assignments (10% each) | 30% |
| | Test 1 | 20% |
| | Test 2 | 20% |
| | Final exam | 30% |
| | | 100% |

ASSIGNMENT POLICY: Assignments are due at the beginning of class on the due date. In the case of extenuating circumstances, deadlines would be extended for up to 5 days at the instructor's discretion. Unjustified delays in handing in of assignments will result in 5% decrease of marks per working day.

ATTENDANCE POLICY: Students are expected to attend all classes and labs on a regular basis.

COURSE CONTENT:

| <u>DATE</u> | <u>TOPIC:</u> | <u>MATERIAL</u> |
|------------------|--|-----------------|
| January 11, 1999 | Simple Interest – Introduction | Text: Chapter 1 |
| January 18, 1999 | Simple Interest – Applications: - Promissory notes - Treasury Bills - Demand Loans & Credit Lines | Text: Chapter 2 |

ASSIGNMENT 1 – DUE JANUARY 25, 1999

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|---|---|---|
| January 25, 1999 & February 1, 1999 | Compound Interest: -Finding the compound amount -Finding the present value -Equivalent rates -Continuous Compounding -Discounting long-term promissory notes -Effective rates of interest | Selected text from chapters 3 & 4 Handouts |
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ASSIGNMENT 2 – DUE MARCH 1

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|--|---|---------------------------------|
| February 8, 1999 February 8, 1999 & March 1, 1999 | TEST 1 : SIMPLE & COMPOUND INTEREST 1.5 Hrs Simple Annuities & General Annuities: - Present value - Amount - Annuity due - Interest rate - Mortgages | Text chapters 5 & 6 Handouts |
| March 8, 1999 | Bonds and Sinking Funds Review | Text Chapter 9 |
| March 15, 1999 | TEST 2 | |
| March 22, 1999 & March 29, 1999 | Introduction to Statistics: - Random sampling - Observational studies - Frequency tables - Centre and spread of a distribution | Handouts |
| April 5, 1999 | Introduction to Probability: - Probability models - Compound events - Conditional events - Independence | Handout |
| | ASSIGNMENT 3 – DUE APRIL 12, 1999 | |
| April 12, 1999 | Review | |