

Effective Semester: Fall 2024

COURSE INFORMATION

Course Title: Mathematics of Finance

Course Number: BUSI 110

Credits: 3

Total Weeks: 14 (Fall, Spring)
12 (Summer)

Total Hours: 39

Course Level:

- First Year Second Year
 New Revised Course
 Replacement Course

Department: Business

Department Head: Chuck Konrad

Former Course Code(s) and Number(s) (if applicable): N/A

Pre-requisites (If there are no prerequisites, type NONE): PREC 11 or FOM 11 or MATH 100 or an approved substitute are recommended.

Co-requisite Statement (List if applicable or type NONE): NONE

Precluded Courses: N/A

COURSE DESCRIPTION

This course will familiarize students with methods, procedures and applications of business mathematics, including the mathematics of merchandising, simple interest, and compound interest. Applications include discounts and markups, cost-volume-profit, short-term and long-term loans, credit card debt, savings and payment plan annuities, mortgages, bonds and investment decisions.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Perform simple algebraic operations.
- Solve equations algebraically and graphically.
- Analyze business problems involving trade discounts, cash discounts and retail pricing.
- Solve applied problems involving simple interest, compound interest, ordinary annuities and
- Certain general annuities.

INSTRUCTION AND GRADING

Instructional (Contact) Hours:

Type	Duration
Lecture	39
Seminars/Tutorials	
Laboratory	
Field Experience	
Other (specify):	
Total	39

Grading System: Letter Grades Percentage Pass/Fail Satisfactory/Unsatisfactory Other

Specify passing grade: 50%

Evaluation Activities and Weighting (total must equal 100%)

Assignments: 15 % Online Assignment via MyCC. One Homework after each chapter.	Attendance: 5 %	Participation: 5 % Q&A and Group Work in Class	Project: 0 % NA
Quizzes/Test: 15 %	Midterm Exams: 30 %	Final Exam: 30%	Other: 0 %

TEXT(S) AND RESOURCE MATERIALS

Recommended:

Hummelbrunner, S. A., Halliday, K., Hassanlou A.R., Coombs, K.S. (2024). Contemporary Business Mathematics with Canadian Applications (13th edition). Toronto, Ontario, Pearson Canada
MyMathLab: <http://www.pearsoned.ca/hummelbrunner>

Required: BA II Plus™ Financial Calculator | Texas Instruments

COURSE TOPICS

List topics and sequence covered.

Week	Topic	Chapters
Week 1	Introduction / Mathematics Fundamentals	1 and 2
Week 2	Mathematics Fundamentals	3 and 4
Week 3	Break-Even and CVP Analysis	5
Week 4	Mathematics of Merchandising: Trade and Cash Discount - Markup and Markdown	6
Week 5	Simple Interest	7
Week 6	Simple Interest: Applications	8
Week 7	MIDTERM EXAM	
	Compound Interest	9
Week 8	Compound Interest: Applications	10
Week 9	Ordinary Simple Annuities and Applications	11
Week 10	Ordinary General Annuities and Applications	12
Week 11	Annuities Due, Deferred Annuities, and Perpetuities	13
Week 12	Loan Amortization	14
Week 13	Bond Valuation and Investment Decision (If time permits given semester length)	15 and 16
Week 14	FINAL EXAM	

NOTES

1. Students are required to follow all College policies. Policies are available on the website at: [Coquitlam College Policies](#)
2. To find out how this course transfers, visit the BC Transfer Guide at: bctransferguide.ca

Last Reviewed: Spring 2024

Last Revised: Spring 2024