

Last Revised: September 2018

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): Pre-Calculus or Foundations of Math or an approved substitute are strongly 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 (<i>specify</i>):	
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: %	Lab Work: %	Participation: 10%	Project: %
<i>Specify number of, variety, and nature of assignments:</i>		<i>Specify nature of participation:</i>	<i>Specify nature of project:</i>
Quizzes/Test: 20%	Midterm Exams: 30%	Final Exam: 40%	Other: %

TEXT(S) AND RESOURCE MATERIALS

Provide a full reference for each text and/or resource material and include whether required/not required.

Hummelbrunner, S. A., Halliday, K., Hassanlou A.R., Coombs, K.S. (2017). Contemporary Business Mathematics with Canadian Applications (11th edition). Toronto, Ontario, Pearson Canada.

MyMathLab: <http://www.pearsoned.ca/hummelbrunner>

COURSE TOPICS

List topics and sequence covered.

Week	Topic
Week 1	Introduction / Mathematics Fundamentals
Week 2	Mathematics Fundamentals
Week 3	Break-Even and CVP Analysis
	Mathematics of Merchandising: Trade and Cash Discount - Markup and Markdown
Week 4	Simple Interest and Applications
Week 5	MIDTERM EXAM
Week 6	Compound Interest and Applications
Week 7	Ordinary Simply Annuities and Applications
Week 8	Ordinary General Annuities and Applications – Annuities Due, Deferred Annuities, and Perpetuities – Case Study
Week 9	MIDTERM EXAM
Week 10	Loan Amortization
Week 11	Bond Valuation
Week 12	Investment Decision
Week 13	Review of the Course Material
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