

**FACULTY OF BUSINESS AND PROFESSIONAL STUDIES
SCHOOL OF BUSINESS
COURSE OUTLINE**

COURSE NAME:	QUANTITATIVE METHODS	COURSE NO.:	BADM 102
TERM:	SUMMER 2018	COURSE CREDITS:	3
INSTRUCTOR:		E-MAIL:	
OFFICE:		PHONE (LOCAL):	

NOTE This is an approved Quantitative/Analytical course for baccalaureate degrees.

COURSE PREREQUISITES: Principles of Math 11 (C) or Pre-calculus 11 or Foundations of Math 11 (C) or BMTH 044 (C) or BMTH 048 (C) or MATH 096 (C) or MATH 097 (C) or MATH 123 (C) or Applications of Math 12 or Apprenticeship & Workplace Mathematics 12 (B) or Foundations of Math 12 or Principles of Math 12 or Pre-calculus 12 or BMTH 054 or BTEC 115 (B-)

REQUIRED TEXT: Custom Publication based on:
Jerome, F.E. (2014). Business Mathematics in Canada. 8th Ed. McGraw-Hill Ryerson. E book version available on the publisher's website.

OTHER RESOURCES: On-line textbook publisher resources at:
http://highered.mheducation.com/sites/0070876207/student_view0/index.html
Instructor Lecture Notes and supplementary materials for required chapters are available on Moodle: <http://moodle.capilanou.ca>
Financial Calculator: Texas Instruments BAII Plus recommended
Graphing Calculators (e.g.: TI89) cannot be used in any exams or quizzes in this course.
Math Learning Centre: BR289 (Individual help, books, videos)

COURSE FORMAT: Instructional hours: 3 hours per week plus 1 hour of supplemental activities for 15 weeks including 2 weeks for final exams.
Students should be completing 2 to 4 hours of practice questions every week.

COURSE DESCRIPTION: This course provides a strong foundation in the mathematics of finance and business. The student will utilize standard financial models in analysis, problem solving, and decision-making. Students will develop an ability to use business mathematics and its professional and personal applications. Computer spreadsheet applications are utilized.

STUDENT LEARNING OUTCOMES: Upon successful completion of this course, students will be able to demonstrate competence in the following abilities and skills:

Ability	Learning Outcomes
Communications	C1. Use correct terminology to discuss mathematical concepts.
	C2. Explain mathematical concepts to other students to aid in their understanding.
Analysis and Decision Making	A1. Recognize the importance of quantitative analysis in the decision-making process.
	A2. Apply mathematical concepts to personal and business investment and borrowing decisions.
	A3. Select and apply correct mathematical concepts to business problems.
	A4. Use ratios and proportions to solve allocation problems.
	A5. Use merchandising mathematics from operations in wholesale and retailing business.
	A6. Apply simple interest and compound interest calculations to different financial instruments such as treasury bills and promissory notes.

BADM 102 Course Outline

	A7. Solve present value and future value problems involving simple interest or compound interest calculations.
	A8. Develop loan amortization schedules.
	A9. Solve comprehensive annuity and loan amortization problems.
	A10. Apply, calculate and interpret financial and business concepts in order to make informed business decisions.
Social Interaction	S1. Use a collaborative approach in class to solve assigned problems.
Citizenship, Sustainability, and Global Perspectives	G1. Develop an awareness of the use of ethics in business: for example, in calculating the GST refunds and rebates.
	G2. Obtain and use current currency exchange rates to calculate value in different countries.

COURSE CONTENT:

Week	Topic	Readings	Assessment
1	Course Introduction / Review	<i>Chapters 1/2.7</i>	Quiz 1 Midterm Exam
2	Ratios and Proportions	3	Assignment 1 Quiz 1 Midterm Exam
3	Ratios and Proportions cont'd Mathematics of Merchandising	3 4	Assignment 1 Quiz 1 Midterm Exam
4	Mathematics of Merchandising cont'd Simple Interest	4 6	Midterm Exam
5	Simple Interest cont'd	6	Midterm Exam
6	Compound Interest	8	Assignment 2 Quiz 2
7	Compound Interest cont'd	8	Assignment 2 Quiz 2
8	Compound Interest - Further Topics	9	Quiz 2
9	Annuities	<i>10, 11.1</i>	Quiz 2
10	Loan Amortization	14	Assignment 3 Final Exam
11	Ordinary Annuities - Further Topics	<i>11.2/11.3</i>	Final Exam
12	Annuities Due	12	Final Exam
13	Annuities Due cont'd	12	Final Exam
14-15	Final Exam (All chapters - 2.7, 3, 4, 6, 7, 8, 9, 10, 11, 12, 14) (Students cannot write the Final Exam earlier than scheduled)		

**Schedules/Dates: Schedules shown here may change and the exact dates and times for exams and quizzes will be announced in class and/or on Moodle.*

EVALUATION PROFILE:

Assessment	% of Final Grade	Individual/ Group	CAPabilities Assessed			
			Communications	Analysis & Decision Making	Social Interaction	Citizenship, Sustainability and Global Perspective
Assignments (5% each)	15%	I	x	x		x
Quizzes (10% each)	20%	I	x	x		
Midterm Exam	30%	I	x	x		x
Final Exam **	35%	I	x	x		
Total	100%					

****NOTE: The final examination MUST BE PASSED in order to receive credit for the assignment grades.**

ASSIGNMENTS: There are three calculation-based assignments on:

1. Mathematics of Merchandising. (Chapter 3 and 4)
2. Compound Interest. (Chapters 8 and 9)
3. Amortization. (Chapter 14)

EXAMS: Quiz 1: (10%)

Will cover Chapters 1, 2.7, 3, and 4.

Midterm: (30%)

Will cover Chapters 1, 2.7, 3, 4, 6, 7 and include definitions and calculation based questions.

Quiz 2: (10%)

Will cover Chapters 8, 9, and 10.

Final Exam: (35%)

Chapters 1, 2.7, 3, 4, 6, 7, 8, 9, 10, 11, 14, and 12, including definitions and calculation based questions.

UNIVERSITY POLICIES:

Capilano University has policies on Academic Appeals (including appeal of final grade), Student Conduct, Cheating and Plagiarism, Academic Probation and other educational issues. These and other policies are available on the University website.

Grading Profile:

A+	90-100	B+	77-79	C+	67-69	D	50-59
A	85-89	B	73-76	C	63-66	F	0-49
A-	80-84	B-	70-72	C-	60-62		

Emergency procedures: In the event of an emergency, students must follow the emergency procedures posted in the classrooms.

In addition to the policies of the university, the School of Business has the following policies governing the management of our classes and curriculum.

SCHOOL OF BUSINESS POLICIES:

- Attendance:** Regular attendance and punctuality are both essential and expected due to the nature and format of the course materials.
- Professional Behaviour:** Students must demonstrate a professional attitude and behaviour toward work, fellow students and their instructors. Each student should demonstrate reliability, respect for and co-operation with colleagues. A willingness to work calmly and courteously under difficult conditions as well as a determination to achieve first-class work while meeting deadlines is necessary in the Business Faculty. Students should have respect for equipment and systems. Students should display a constructive response to criticism.
- English Usage:** All assignments are marked for correct English usage, proofreading and formatting.
- Missed Exams and Quizzes:** Missed exams or quizzes will receive a grade of "0" unless PRIOR arrangements (wherever possible) are made with the instructor. Permission to make up an exam will only be given in extraordinary situations such as illness of the student or the death of a close family member. A doctor's certificate, or other proof supporting the reason for the absence, will be required. For further information, refer the "Examination & Pivotal Presentation Exemption Policy" of the School of Business.
- Copyright Policy:** Students are expected to familiarize themselves with and abide by the University's Copyright Policy. The University's Copyright Policy is published in the University website.
- Cheating and Plagiarism:** Cheating is an act of deceit, fraud, distortion of the truth, or improper use of another person's effort to obtain an academic advantage. Cheating includes permitting another person to use one's work as their own. Plagiarism is the presentation of another person's work or ideas as if they were one's own. Plagiarism is both dishonest and a rejection of the principles of scholarship. Information about how to avoid plagiarism by proper documentation of sources is available in the Writing Centre and is published on the University website in the University Policies page.
- Penalties for Cheating and Plagiarism:** A grade of '0' for an examination, quiz or assignment or 'F' for the course may be assigned if cheating or plagiarism has taken place. First incidents deemed by the instructor to be particularly serious or second or subsequent incidents of cheating and plagiarism will be dealt with under the provisions of the University Policy on Cheating and Plagiarism (see the University website). All students should familiarize themselves with the University Policy on Cheating and Plagiarism as such behaviour can result in suspension from the University.
- Incomplete Grades:** Incomplete grades will not be given unless special arrangements have been made with the instructor prior to the date set by University Administration.

COURSE LEVEL POLICIES:

In addition to Capilano University and the School of Business policies, the following policies govern the management of this course and its curriculum.

- Assignments:** Homework assignments are due at the start of class on the due date unless otherwise advised by your instructor. Late assignments will not be accepted.
- Programmable Tools:** Please note the use of programmable items such as graphing calculators, dictionaries etc. is forbidden during tests, quizzes, and exams. Mobile phones are to be turned off during class time and any test, quiz, or exam.
- Final Exam** The final examination MUST BE PASSED in order to receive credit for the assignment grades.