Yukon University

COURSE OUTLINE

MATH 141
MATHEMATICS FOR BUSINESS

3 CREDITS
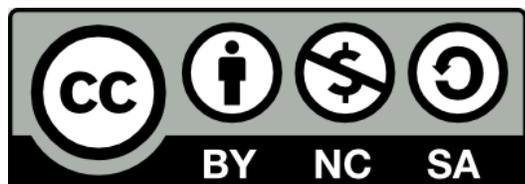
PREPARED BY: Megan Klassen, Instructor
DATE: August 25, 2020

APPROVED BY: Ernie Prokopchuk, Dean
DATE: August 26, 2020

APPROVED BY SENATE: Click or tap to enter a date
RENEWED BY SENATE: Click or tap to enter a date

MATHEMATICS FOR BUSINESS

INSTRUCTOR: Megan Klassen	**OFFICE HOURS: Online by appointment**
OFFICE LOCATION: N/A	**CLASSROOM: Online**
E-MAIL: mklassen@yukonu.ca	**TIME: W/F 8:30 – 10 AM**
TELEPHONE: N/A	**DATES: Sept. 2nd – Dec. 4th**

COURSE DESCRIPTION

This course will provide foundational material that is used throughout the Bachelor of Business Administration program. Students will learn and practice basic operations in arithmetic and apply financial math formulas to real world northern examples. Various strategies for solving business math problems will be explored such as mathematical skills, use of calculators, and estimation skills.

PREREQUISITES

Math 050 (YC) or Pre-Calculus 11

RELATED COURSE REQUIREMENTS

Computer required

EQUIVALENCY OR TRANSFERABILITY

Transferability will be determined by the receiving institution.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:
- Demonstrate proficiency in calculating basic operations in arithmetic involving fractions, decimals, and/or percentages.
- Manipulate formulas for different variables using basic algebra skills.
- Apply appropriate financial formulas to problems involving the time value of money.
- Apply simple interest and compound interest formulas to real world examples.
- Solve basic finance word problems using calculators.

- Apply appropriate strategies and formulas to solve basic problems in counting methods.

COURSE FORMAT

This is an online course that can be completed from any location with an internet connection. This course will be a total of 45 hours, including a final exam. Classes will include online lectures and online learning on Moodle.

ASSESSMENTS:

Attendance & Participation
Students are expected to attend regularly, complete all assignments, attend online lectures ready and prepared to learn, and participate actively in class activities.

Assignments
There will be 6 assignments based on material learned. Credit will be given for the best 5 out of 6 assignments.

Tests
There will be a set of 5 quizzes, midterm examination and final examination.

Project
There will be one case study to allow students to study more in-depth a particular area in business mathematics.

A minimum of 50% is required to pass this course.
Late assignments will lose 10% per day penalty for each of the first three days. The due date is considered Day 1. No assignment will be marked after the three-day penalty period.

EVALUATION:

Assignments (5 out of 6)	30%
Midterm Exam	20%
Quizzes (5)	15%
Project	15%
Final Exam	20%
Total	100%

REQUIRED TEXTBOOKS AND MATERIAL
Olivier, Jean-Paul. (2017). BUSINESS MATH: A Step-By-Step Handbook. https://lila1.lyryx.com/textbooks/OLIVIER_1/marketing/Olivier-BusinessMath-2018B.pdf

You will also require a Texas Instruments BAII+ Calculator

ACADEMIC AND STUDENT CONDUCT

Information on academic standing and student rights and responsibilities can be found in the current Academic Regulations that are posted on the Student Services/ Admissions & Registration web page.

PLAGIARISM

Plagiarism is a serious academic offence. Plagiarism occurs when a student submits work for credit that includes the words, ideas, or data of others, without citing the source from which the material is taken. Plagiarism can be the deliberate use of a whole piece of work, but more frequently it occurs when students fail to acknowledge and document sources from which they have taken material according to an accepted manuscript style (e.g., APA, CSE, MLA, etc.). Students may use sources which are public domain or licensed under Creative Commons; however, academic documentation standards must still be followed. Except with explicit permission of the instructor, resubmitting work which has previously received credit is also considered plagiarism. Students who plagiarize material for assignments will receive a mark of zero (F) on the assignment and may fail the course. Plagiarism may also result in dismissal from a program of study or the University.

YUKON FIRST NATIONS CORE COMPETENCY

Yukon University recognizes that a greater understanding and awareness of Yukon First Nations history, culture and journey towards self-determination will help to build positive relationships among all Yukon citizens. As a result, to graduate from ANY Yukon University program, you will be required to achieve core competency in knowledge of Yukon First Nations. For details, please see www.yukonu.ca/yfnccr.

ACADEMIC ACCOMMODATION

Reasonable accommodations are available for students requiring an academic accommodation to fully participate in this class. These accommodations are available for students with a documented disability, chronic condition or any other grounds specified in section 8.0 of the Yukon University Academic Regulations (available on the Yukon University website). It is the student's responsibility to seek these accommodations. If a student requires an academic accommodation, he/she should contact the Learning Assistance Centre (LAC): lac@yukonu.ca.

TOPIC OUTLINE

Week	Material Covered	Assessment
Sept 2 & 4	Course Introduction & Chapter 2: Back to the Basics	
Sept 9 & 11	Chapter 3: General Business Management Applications	
Sept 16 & 18	Chapter 6: Marketing Applications	A1 Due
Sept 23 & 25	Chapter 8: Simple Interest: Working with Single Payments/Applications	Quiz 1
Sept 30 & Oct 2	Chapter 9: Compound Interest: Working with Single Payments	Quiz 2 A2 Due
Oct 7	Midterm Review	
Oct 9	**Midterm: Chapters 2, 3, 6, 8, 9**	
Oct 14 & 16	Chapter 11: Compound Interest: Annuities	Quiz 3
Oct 21 & 23	Chapter 12: Compound Interest: Special Applications of Annuities	A3 Due
Oct 28 & 30	Chapter 13: Understanding Amortization & Its Applications	Quiz 4
Nov 4 & 6	Annuities Review	A4 Due
Nov 11 Nov 13	Remembrance Day – No Class Case Study Research	
Nov 18 & 20	Chapter 14: Bonds and Sinking Funds	Quiz 5
Nov 25 & 27	Case Study Presentations	A5 Due Report Due
Dec 2 & 4	Review Chapters 2, 3, 6, 8, 9, 11-14	A6 Due
Dec 18	**Final Exam: Chapters 2, 3, 6, 8, 9, 11-14**	