

	School of Applied Science and Management
	MATH 141
	Mathematics for Business
	Term: Winter 2024 Number of Credits: 3
Course Outline	

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OFFICE: A2105
OFFICE HOURS: after class or by appointment

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.

COURSE REQUIREMENTS

Prerequisite(s): MATH 050 (YukonU) or Pre-Calculus 11 or equivalent

EQUIVALENCY OR TRANSFERABILITY

Receiving institutions determine course transferability. Find further information at:
<https://www.yukonu.ca/admissions/transfer-credit>

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

Weekly breakdown of instructional hours

This course will be a total of 45 hours, including a final exam. Classes will include a mix of lectures, independent work, group work & discussions. Some online activities will take place on Moodle (quizzes and tests).

It is expected that this course will require three to five hours per week of homework and additional reading. Time outside of class practicing with homework and studying is particularly important in math courses to ensure fluency and retention. It is important to note that the time required will vary by individual.

Delivery format

The course will be delivered in-person at Ayamdigut campus. Hyflex format, using Zoom video-conferencing, may be available for distance students as required. Occasionally, lectures may be delivered synchronously by Zoom as needed, or asynchronously via posted recordings on Moodle. Some online, asynchronous activities in Moodle, such as online quizzes, will be required.

EVALUATION

Assignments	30 %
Quizzes	15 %
Midterm Exam	20%
Case Study Project	15%
Final Exam	20%
Total	100%

Assignments

There will be 6 assignments based on material learned. Each assignment will cover one or two chapters of course material.

Tests

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

Case Study Project

There will be one case study in which students will apply business mathematics skills to a problem-based learning scenario. This will involve a set problem that students will work on in small groups. Groups will present their methods and solutions to the class.

Attendance & Participation

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

A minimum of 50% is required to pass this course.

Late assignments will incur a 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. A grace period may be offered in challenging circumstances with instructor discretion.

COURSE WITHDRAWAL INFORMATION

Refer to the YukonU website for important dates.

TEXTBOOKS & LEARNING MATERIALS

Olivier, Jean-Paul. (2023). BUSINESS MATH: A Step-By-Step Handbook. Lyryx Learning.

https://lila1.lyryx.com/textbooks/OLIVIER_1/marketing/Olivier-BusinessMath-2023A-D.pdf

You will need a Texas Instruments BA II *Plus* Calculator:

<https://education.ti.com/en/products/calculators/financial/ba-ii-plus> (or a Sharp Business/Financial Calculator EL-738). This can be purchased locally at Staples or online. Several of these are also available for loan from the YukonU Library. Texas Instruments also offers an app for iOS. 3rd party apps can be found for Android.

ACADEMIC INTEGRITY

Students are expected to contribute toward a positive and supportive environment and are required to conduct themselves in a responsible manner. Academic misconduct includes all forms of academic dishonesty such as cheating, plagiarism, fabrication, fraud, deceit, using the work of others without their permission, aiding other students in committing academic offences, misrepresenting academic assignments prepared by others as one's own, or any other forms of academic dishonesty including falsification of any information on any Yukon University document.

Please refer to Academic Regulations & Procedures for further details about academic standing and student rights and responsibilities.

ACCESSIBILITY AND ACADEMIC ACCOMMODATION

Yukon University is committed to providing a positive, supportive, and barrier-free academic environment for all its students. Students experiencing barriers to full participation due to a visible or hidden disability (including hearing, vision, mobility, learning disability, mental health, chronic or temporary medical condition), should contact [Accessibility Services](#) for resources or to arrange academic accommodations: access@yukonu.ca.

TOPIC OUTLINE

The proposed syllabus and schedule are subject to change. Updated schedules will be posted on Moodle and communicated in class. Always check with the instructor if you have questions.

Week	Material covered	Assessment
1	Course Introduction Chapter 2: Back to the Basics	
2	Chapter 3: General Business Management Applications	Assign. 1 due
3	Chapter 6: Marketing Applications	Quiz 1
4	Chapter 8: Simple Interest - Working with single payments	
5	Intro to Compound Interest Chapter 9: Compound Interest - Single payments	Assign. 2 due Quiz 2
6	Case Study Research / establishing groups	Midterm exam
7	Review and Midterm Exam: Ch. 2, 3, 6, 8, 9	
RW	<i>Reading Week</i>	
8	Chapter 11: Compound Interest - Annuities	
9	Chapter 12: Compound Interest - Special application of annuities	Assign. 3 due Quiz 3
10	Chapter 13: Understanding Amortization and Its Applications	
11	Annuities Review	Assign. 4 due Quiz 4
12	Case Study research Chapter 14: Bonds and Sinking Funds	
13	Principles of Counting Case Study Presentations	Assign. 5 due Quiz 5
14	Case Study Presentations Final Review	Assig. 6 due Project Report due