



DEPARTMENT OF BUSINESS AND OFFICE ADMINISTRATION

COURSE OUTLINE – Fall 2026

BA1050 (A2): Business Mathematics – 3 (3-0-1) 60 Hours for 15 Weeks

Northwestern Polytechnic acknowledges that our campuses are located on Treaty 8 territory, the ancestral and present-day home to many diverse First Nations, Metis, and Inuit people. We are grateful to work, live and learn on the traditional territory of Duncan's First Nation, Horse Lake First Nation and Sturgeon Lake Cree Nation, who are the original caretakers of this land.

We acknowledge the history of this land and we are thankful for the opportunity to walk together in friendship, where we will encourage and promote positive change for present and future generations.

INSTRUCTOR:	Mandy Pollock	PHONE:	780-539-2815
OFFICE:	C406	E-MAIL:	APollock@nwpolytech.ca
OFFICE HOURS:	Monday & Thursday 11:30am – 1:00pm		

CALENDAR DESCRIPTION:

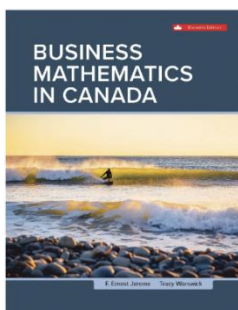
This course emphasizes a range of mathematical calculations used in business. Students will be introduced to simple interest, compound interest, annuities, amortization and sinking funds. Practical applications will be emphasized in the course.

PREREQUISITE:

Math 20-1 or 20-2 with 60% or Math 30-1 or Math 30-2 with 50%.

REQUIRED TEXT/RESOURCE MATERIALS:

Business Mathematics in Canada, 11th Edition (2025). McGraw-Hill Ryerson. Jerome and Worswick.



All students must have access to Connect. You must have an access code in order to gain access to the online resources. McGraw-Hill Connect™ is a web-based assignment and assessment platform that gives students the means to better connect with their coursework, and with the important concepts that they will need to know for success now and in the future. If you have purchased a used book, you will have to purchase an access code separately. Instructions to do this are available in the Registration Module.

DELIVERY MODE:

On-campus (face-to-face) – This type of course will be delivered on campus in a specific location which will be indicated on the student timetable. Students are expected to fully attend in person.

LEARNING OUTCOMES:

Simple Interest

- The student will be able to explain the concept of simple interest.
- The student will be able to calculate the amount of interest, principal, time, interest rate, and maturity value of investments and loans.
- The student will be able to calculate equivalent payments that replace another payment or a series of payments.
- The student will be able to explain the use of simple interest in business applications such as demand loans, promissory notes, treasury bills, commercial papers, and discounting.

Compound Interest

- The student will be able to explain the concept of compound interest and how it differs from simple interest.
- The student will be able to calculate the future value and present value of investments and loans in compound interest applications using both algebraic and financial calculator methods.
- The student will be able to calculate equivalent payments that replace another payment or a set of payments.
- The student will be able to calculate the effective and equivalent interest rates for nominal interest rates.

Annuities

- The student will be able to identify annuities based on a payment date and compounding period.
- The student will be able to calculate the future value and present value of ordinary simple annuities.



- The student will be able to calculate the future value and present value of ordinary general annuities.
- The student will be able to calculate the future value and present value of simple annuities due and general annuities due.
- The student will be able to calculate the amount of the periodic payments (PMT), the number of payments (n), term (t), periodic interest rate (i), and nominal interest rate (j) of an annuity.
- The student will be able to calculate the present value, number of payments, term, and periodic payment of a deferred annuity.
- The student will be able to explain the concept of amortization of loans.
- The student will be able to calculate the interest portion, principal portion, and principal balance after any payment.
- The student will be able to explain and will understand bond terminology.
- The student will be able to calculate the purchase price of a bond on an interest payment date.
- The student will be able to calculate the purchase price of a bond between interest payment dates.

TRANSFERABILITY:

Please consult the Alberta Transfer Guide for more information. You may check the transferability of this course at the Alberta Transfer Guide main page [Transfer Alberta](#)

**** For courses with alpha (letter) grading, a grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability.**

In Class Assessments	9%
Quizzes (9 @ 2% each)	18%
Midterm Exam	23%
Annuities Exam	15%
Final Exam (cumulative)	35%

In order to receive credit for BA 1050, you must achieve 50% on the final examination and a course composite grade of at least D (50%). You are strongly encouraged to complete all assignments and exams—you will receive a zero (0) for any missed assignment or exam.

GRADING CRITERIA:

Please note that most universities will not accept your course for transfer credit **IF** your grade is **less than C-**.

Alpha Grade	4-point Equivalent	Percentage Guidelines		Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	95-100		C+	2.3	67-69
A	4.0	85-94		C	2.0	63-66
A-	3.7	80-84		C-	1.7	60-62
B+	3.3	77-79		D+	1.3	55-59
B	3.0	73-76		D	1.0	50-54
B-	2.7	70-72		F	0.0	00-49

COURSE SCHEDULE/TENTATIVE TIMELINE:

Week Beginning	Chapters Covered	Additional Information
September 2	Introduction	
September 7	Chapter 7	
September 14	Chapter 7	<i>Quiz Ch. 7 Due Sept 20</i>
September 21	Chapter 8	
September 28	Chapter 8	<i>Quiz Ch. 8 Due Oct 4</i>
October 5	Chapter 9	
October 12	Chapter 9	<i>Quiz Ch. 9 Due Oct 18</i>
October 19	Chapter 10	<i>Quiz Ch. 10 Due Oct 25</i>
October 26	Review & Midterm Exam – 25%	Chapters 7-10
November 2	Chapter 11	<i>Quiz Ch. 11 Due Nov 15</i>
November 9	Fall Break – No Classes	
November 16	Chapter 12	<i>Quiz Ch. 12 Due Nov 22</i>
November 23	Chapter 13	<i>Quiz Ch. 13 Due Nov 25</i>
November 26	Annuities Exam – 17%	Chapters 11-13
November 30	Chapter 15	<i>Quiz Ch. 15 Due Dec 6</i>
December 7	Chapter 16	<i>Quiz Ch. 16 Due Dec 11</i>
December 12-19	Final Exam – 35%	Cumulative

The above schedule may be revised at the discretion of the instructor based on class requirements.

Final examinations will be scheduled by the registrar's office. Do not plan any activities during examination week.



STUDENT RESPONSIBILITIES:

Student Conduct

As a student, it is your responsibility to read, understand, and comply with the college's academic policies, which are reviewed regularly, updated and posted on the polytechnic website. If you have any questions regarding these policies, please contact Student Services.

Time Management

The expectation for this course is that students read/review the text material prior to class; see white text pages for concepts/theory. Adopting and adhering to effective learning habits in this course will likely take up a great deal of time so plan your schedule accordingly. It is difficult to catch up once a student falls behind in readings and exercises.

Email correspondence to your instructor must be sent from your NWP student email account. Emails should be professionally formatted and include a subject, correct spelling and grammar, and a reference to course material and/or textbook pages, etc.

STATEMENT ON ACADEMIC MISCONDUCT:

Academic Misconduct will not be tolerated. For a more precise definition of academic misconduct and its consequences, refer to the Student Rights and Responsibilities policy available: [Student Rights and Responsibility Policy](#)

****Note:** all Academic and Administrative policies are available on the same page. [Policies Directory | Northwestern Polytechnic](#)

ADDITIONAL INFORMATION:

In Class Assessments

Throughout the semester, students will complete a series of unannounced in-class assessments. These assessments are intended to evaluate students' understanding of current course material and their ability to apply concepts discussed in class.

In-class assessments may include, but are not limited to:

- Short quizzes;
- Individual or group worksheets;
- Practice problems or case analyses;
- Written responses or reflections;



- Application exercises; and
- In-class activities or problem-solving tasks

Students will not receive advance notice of when these assessments will occur. Assessments must be completed and submitted during the class in which they are assigned. Students who are absent will receive a grade of zero (0) for the missed assessment. Missed in-class assessments cannot normally be completed at a later date, except where required under an approved accommodation or applicable Northwestern Polytechnic policy.

Collectively, the in-class assessments are worth 9% of the final course grade.

Quizzes

- There will 9 quizzes dispersed throughout the semester. Students will be allowed two attempts at each quiz.
- The quizzes will be marked immediately, and the student will receive their grade immediately.
- The highest grade on any quiz attempt is recorded on the dashboard.
- All quizzes must be completed before the expiration of the pre-set due date or the student will receive a mark of zero (0) for any missed labs.
- Once the quiz has been started, you must complete the entire quiz within the 60-minute time limit. Logging off or losing the internet connection during the quiz will result in a grade based only on the proportion of the exam that has been completed. It is imperative that the student has a reliable internet connection when attempting an exam.

Final Exam

- 2 hours will be given for the final exam to be written.
- The final exam will be cumulative and will account for 35% of the final grade.
- The final exam will be scheduled by the Registrar's Office during exam week(s).
Do not plan any activities during this time.
- Approved calculators and approved translation devices are the only electronic devices allowed during the final examination. No programmable calculators will be allowed. Textbooks or notes will not be allowed in the examination area. Cell phone calculators may not be used in examinations.
- **In order to receive credit for BA 1050, you must achieve 50% on the final examination and a course composite grade of at least D (50%). You are strongly encouraged to complete all assignments and exams—you will receive a zero (0) for any missed assignment or exam.**

Lesson, Lab, Exam and Classroom Policies

- Please note that answers to the odd-numbered questions are in the back of the textbook. Full solutions to the odd-numbered questions are available in your online resources. Answers to the even-numbered questions will not be provided.
- Lessons, quizzes and exams will be written as scheduled.
- Rewrites/rescheduled exams will not be given. If there is an excusable absence, the weighting of the missed exam will be added to the final exam weighting. If the absence is not excusable, a grade of 0% will be given.
- In order to get the most out of class regular attendance and active participation are encouraged.
- The student is responsible for any missed content due to missing a class (excused or unexcused).
- Photographing and/or recording course content is strictly prohibited.