

DEPARTMENT OF ACADEMIC UPGRADING**COURSE OUTLINE – Winter 2024****MA0060 (A3, B3): Basic Mathematics I – 5 (7.5-0-0) 112.5 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.

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OFFICE HOURS: TBD or by appointment

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INSTRUCTOR (B3): Doris LaChance
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CALENDAR DESCRIPTION:

This course is a modularized program of study which covers a review of reading, writing and rounding of whole numbers, if required, as well as whole number multiplication and division. Problem-solving is emphasized throughout, and squares, square roots and the order of operations are introduced.

PREREQUISITE(S)/COREQUISITE:

MA0060 and EN0080 placement

REQUIRED TEXT/RESOURCE MATERIALS:

Tobey, John; et al. STEPPING IT UP Preparing for College Math. Toronto: Pearson, 2011.

DELIVERY MODE(S):

MA0060 is a modularized math course.

LEARNING OUTCOMES:

As a result of taking this course, students will gain the ability to:

- Write and read standard numbers in expanded or word form
- Add several single-digit or several-digit numbers
- Identify the associative & commutative property and zero identity of addition
- Subtract whole numbers when borrowing is necessary or not necessary
- Verify the answer to a subtraction problem
- Multiply a several-digit number by a single-digit or a several-digit number
- Perform division by a one-digit or two-or-more digit number
- Use multiplication to verify a division answer
- Perform several arithmetic operations in the proper order
- Apply arithmetic manipulation (+, -, ×, ÷) to real-life situations
- Use estimation skills to answer to real-life situations

TRANSFERABILITY: N/A

EVALUATIONS:

4 section tests (best 4 out of 5)	40 %
Assignments	10 %
Midterm	20 %
Final Exam	30 %

**Note: Even though 50% is a passing mark, a mark of at least 65% is recommended for success in future courses.

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:

See table on last page.

STUDENT RESPONSIBILITIES:

In addition to the Student Rights and Responsibilities as set out in the Northwestern Polytechnic website, the following guidelines will maintain an effective learning environment for everyone:

- Regular attendance is expected of all students in all mathematics courses. Your success in math is directly linked to your attendance. Attendance will be taken daily.
- Students are expected to be punctual. Arrive on time for classes and remain for the duration of scheduled classes.
- Refrain from disruptive talking or socializing during class time.
- Be respectful of others regarding food or beverages in the classroom. Clean up your eating area and dispose of garbage.
- Recycle paper, bottles, and cans in the appropriate containers.
- Children are not permitted in the classrooms.
- Students are expected to notify the instructor of any extenuating circumstances.
- Students are expected to silence cell phones during class time. No unspecified electronic devices will be allowed in exams.

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 at <https://www.nwpolytech.ca/about/administration/policies/index.html>.

**Note: all Academic and Administrative policies are available on the same page.

MA0060 Tentative Test Schedule for Winter 2024

Test or Assignment #	% towards final grade	Topics	Recommended Date	Date written	Mark
A1	1%	Section 1: Whole Numbers	January 12		
A2	1%	Section 2: Adding	January 19		
T1	10 %	Understanding Whole Numbers & Adding Whole Numbers	January 23		
A3	1%	Section 3: Subtracting	January 31		
A4	1%	Section 4: Multiplying	February 9		
T2	10 %	Subtracting Whole Numbers Times tables from 0-12 Multiplying Whole Numbers	February 13		
A5	1%	Section 5: Dividing	March 1		
T3	10 %	Dividing Whole Numbers & Multiplication table 0-12	March 5		
AM	1%	Midterm review	March 7		
Midterm Exam	20 %	All of the above.	March 11		
A6	1%	Section 6: Exponents & BEDMAS	March 20		
A7	1%	Section 7: Rounding & Estimating	March 27		
T4	10 %	Exponents & Order of Operations & Rounding and Estimating	April 4		
A8	1%	Section 8: Problem Solving	April 10		
T5	10 %	Solving Applied Problems Involving Whole Numbers	April 5		
AF	1%	Final Review	April 15		
Final Exam	30 %	All of the above	TBA (April 17-24) 3 hour exam		

*****Assignments must be completed before corresponding test.**

*****All tests must be completed by April 12th.**

*****Midterm must be completed by March 14.**