



## LEARNING OUTCOMES:

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

- Calculate percent and solve problems that involve unit pricing using proportional reasoning
- Convert between Canadian currency and foreign currencies
- Calculate deductions, given the rate of deductions, and find net pay
- Convert measurement between SI units and imperial units
- Solve problems, using SI and imperial units, that involve the surface area and volume of general and complex 3-D object
- Perform conversions such as between mass and volume, and temperature scales
- Solve problems involving angles and pairs of angles, and parallel, non-parallel, perpendicular and transversal lines
- Identify images that are not similar to the original diagrams
- Solve problems that require the manipulation and application of formulas related to the Pythagorean Theorem and primary trigonometric ratios

## TRANSFERABILITY:

This course is listed in the Alberta Transfer Guide. It is accepted at colleges and universities in Alberta as equivalent to Math 10-3. Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at the Alberta Transfer Guide main page

<http://www.transferalberta.alberta.ca>.

**\*\* 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**

## EVALUATIONS:

3 section tests (best 3 out of 4)	30 %
Midterm	25 %
Final Exam	45 %

**\*\*Note:** Even though 50% is a passing mark, a mark of at least 60% 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.

**MA0113 Tentative Test Schedule for Winter 2024**

Test #	% towards final grade	Topics	Recommended Test Date	Date written	Mark
1	10%	Chap. 1: Unit Pricing and Currency Exchange & Chap. 2: Earning An Income	January 29		
2	10%	Chap. 3: Length, Area, and Volume & Chap. 4: Mass, Temperature, and Volume	February 27		
Midterm Exam	25%	All of the Above	February 29		
3	10%	Chap. 5: Angles and Parallel Lines & Chap. 6: Similarity of Figures	March 22		
4	10%	Chap. 7: Trigonometry of Right Triangles	April 12		
Final Exam	45%	All of the Above	TBA (April 17-24) 3 hour exam		

**\*\*\*All tests must be completed by April 12<sup>th</sup>.**

**\*\*\*Midterms must be completed by March 7<sup>th</sup>.**