

ORIGINAL COURSE IMPLEMENTATION DATE: REVISED COURSE IMPLEMENTATION DATE:

COURSE TO BE REVIEWED (six years after UEC approval):

September 2009 January 2023

June 2028

Course outline form version: 06/18/2021

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: MATH 076			Number of Credits: 1.5 Course credit policy (105)					
Course Full Title: Intermediate Math II Course Short Title:								
Faculty: Faculty of Education, Community, and Human Development			Department: Upgrading and University Preparation					
Calendar Description:								
Students will review primes, factors, multiples, integers, formulas, expressions, equations, and polynomials. Course topics include percent applications, geometry, graphing, introduction to algebra and trigonometry, powers, roots, and scientific notations.								
Prerequisites (or NONE):	MATH 075 or UUP department perr			nission (assessment is re	quired).			
Corequisites (if applicable, or NONE):	NONE							
Pre/corequisites (if applicable, or NONE): NONE								
Antirequisite Courses (Cannot be taken for	Antirequisite Courses (Cannot be taken for additional credit.)		Course	Course Details				
Former course code/number: MATH 072			Special	Special Topics course: No				
Cross-listed with: NONE			(If yes, the course will be offered under different letter					
Equivalent course(s): NONE			Directed Study course: No					
(If offered in the previous five years, antirequisite course(s) will be included in the calendar description as a note that students with credit for the antirequisite course(s) cannot take this course for further credit.)			Grading	Grading System: Letter Grades				
			Delivery Mode: May be offered in multiple delivery modes					
				Expected frequency: Every competer				
Typical Structure of Instructional Hours			Movim	Expected frequency. Every semester				
Lecture/seminar	seminar 22.5		IVIAXIIII					
Tutorials/workshops		22.5	Prior Learning Assessment and Recognition (PLAR)					
			PLAR i	s available for this cour	se.			
			Transf	er Credit (See <u>bctransfe</u>	rguide.ca.)			
			Transfe	er credit already exists: No)			
Total hours 45			Submit outline for (re)articulation: No					
Labs to be scheduled independent of lecture	(If ye	s, fill in <u>transfer credit forn</u>	<u>n</u> .)					
Department approval				Date of meeting:	November 2021			
Faculty Council approval				Date of meeting:	December 3, 2021			
Undergraduate Education Committee (UEC) approval			Date of meeting:	June 17, 2022				

Learning Outcomes

Upon successful completion of this course, students will be able to:

- 1. Define and use key vocabulary words such as, integer, rational number, co-ordinates, and polynomial.
- 2. Simplify and evaluate expressions involving powers, roots, and scientific notation.
- 3. Perform operations on polynomials.
- 4. Solve problems involving variable expressions, percent problems, and geometry problems.
- 5. Interpret and use formulae for calculation of area and volume.
- 6. Use the Cartesian coordinate system to graph linear equations and find the slope of a line.
- 7. Use basic trigonometric ratios (sine, cosine, and tangent) and the Pythagorean theorem to solve problems involving right triangles.
- 8. Use the basic operations and exponential and trigonometric functions on a scientific calculator.

After completion of Math 075 and Math 076, students will meet the outcomes as described in the Intermediate Level – Algebraic Mathematics in the 2021 – 2022 Adult Basic Education Articulation Guide available at https://www.bctransferguide.ca/search/abe.

Recommended Evaluation Methods and Weighting (Evaluation should align to learning outcomes.)

Final exam: 30%	Quizzes/tests: 70%	%
%	%	%

Details:

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Texts and Resource Materials (Include online resources and Indigenous knowledge sources. <u>Open Educational Resources</u> (OER) should be included whenever possible. If more space is required, use the <u>Supplemental Texts and Resource Materials form</u>.)

	Туре	Author or description	Title and publication/access details	Year
1.	Textbook	Hutchison, D, Berman, B, & Baratto, S.	Prealgebra Ed: 4; McGraw-Hill	2014
2.				
3.				
4.				
5.				

Required Additional Supplies and Materials (Software, hardware, tools, specialized clothing, etc.)

Scientific calculator

Course Content and Topics

Module topics include:

- Equations with rational coefficients (review)
- Application problems (percent, number, mixture, motion, geometry problems)
- Powers, roots, and scientific notation
- Polynomials (adding, subtracting, multiplying, introduction to factoring)
- Graphing equations
- Geometry (angles, lines, and triangles)
- Trigonometry (right angle)