



ORIGINAL COURSE IMPLEMENTATION DATE: September 2009
 REVISED COURSE IMPLEMENTATION DATE: September 2016
 COURSE TO BE REVIEWED: (six years after UEC approval) February 2022
 Course outline form version: 11/22/13

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

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

Course Code and Number: MATH 075

Number of Credits: 1.5 [Course credit policy \(105\)](#)

Course Full Title: Intermediate Math I
Course Short Title:

Faculty: Faculty of Access and Open Studies

Department: Upgrading and University Preparation

Calendar Description:

Students will review fractions, decimals, ratio, proportion, and the metric system. Course topics include integers, primes, factors, and multiples; perimeter, area and volume; signed (rational) numbers; and an introduction to formulas, equations, expressions, and polynomials.

Prerequisites (or NONE): One of the following: MATH 061, MATH 063, or UUP department permission (assessment may be required).

Corequisites (if applicable, or NONE):

Pre/corequisites (if applicable, or NONE):

Equivalent Courses (cannot be taken for additional credit)

Former course code/number: **MATH 072**

Cross-listed with:

Equivalent course(s):

Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.

Transfer Credit

Transfer credit already exists: Yes No

Transfer credit requested (OREg to submit to BCCAT):

Yes No (Note: If yes, fill in transfer credit form)

Resubmit revised outline for articulation: Yes No

To find out how this course transfers, see bctransferguide.ca.

Total Hours: 45

Typical structure of instructional hours:

Lecture hours	22.5
Seminars/tutorials/workshops	22.5
Laboratory hours	
Field experience hours	
Experiential (practicum, internship, etc.)	
Online learning activities	
Other contact hours:	
Total	45

Special Topics

Will the course be offered with different topics?

Yes No

If yes,

Different lettered courses may be taken for credit:

No Yes, repeat(s) Yes, no limit

Note: The specific topic will be recorded when offered.

Maximum enrolment (for information only): 25

Expected frequency of course offerings

(every semester, annually, etc.): Every Semester

Department / Program Head or Director: Greg St. Hilaire

Date approved: November 2015

Campus-Wide Consultation (CWC): Anna Wauthy

Date of posting: n/a

Faculty Council approval

Date approved: November 2015

Dean/Associate VP: Susan Brigden

Date approved: November 2015

Undergraduate Education Committee (UEC) approval

Date of meeting: February 26, 2016

Learning Outcomes

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

1. define and use key vocabulary (and symbols) such as prime, factor, multiple, integer, expression, equation
2. create ratios and proportions and use to solve problems
3. apply the concepts of factors and multiples to solve whole number, fraction, and variable expression problems
4. add, subtract, multiply, and divide integers and rational numbers
5. apply concepts of perimeter, area, and volume to solve problems involving a variety of two- and three-dimensional shapes
6. solve problems using a variety of strategies, including introductory algebra
7. solve linear equations with integral, rational, or decimal coefficients
8. use appropriate functions on a scientific calculator

After completion of Math 075 and Math 076, students will meet the outcomes as identified in the Adult Basic Education Articulation Handbook http://www.aved.gov.bc.ca/abe/docs/2015-16_abe_guide.pdf, appropriate for Intermediate Level – Algebraic Mathematics.

Prior Learning Assessment and Recognition (PLAR)

Yes No, PLAR cannot be awarded for this course because

Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

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

Typical Text(s) and Resource Materials (if more space is required, download supplemental Texts and Resource Materials form)

<u>Author Surname, Initials</u>	<u>Title (article, book, journal, etc.)</u>	<u>Current Edition</u>	<u>Publisher</u>	<u>Year Published</u>
1. Baratto	Prealgebra W/O Connect (New Fall 2014) Ed: 4	<input checked="" type="checkbox"/>	Mcgraw Hill	2014
2.		<input type="checkbox"/>		
3.		<input type="checkbox"/>		
4.		<input type="checkbox"/>		
5.		<input type="checkbox"/>		

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

Print card.

Typical Evaluation Methods and Weighting

Final exam:	30%	Assignments:	%	Midterm exam:	%	Practicum:	%
Quizzes/tests:	70%	Lab work:	%	Field experience:	%	Shop work:	%
Other:	%	Other:	%	Other:	%	Total:	100%

Details (if necessary):

Grading system: Letter Grades: Credit/No Credit: Labs to be scheduled independent of lecture hours: Yes No

Typical Course Content and Topics

Relevant mathematical vocabulary
 Review of whole number, fraction, and decimal operations
 Estimating math operations and calculator use
 Measurement including perimeter, area, surface area, and volume
 Ratio and proportion
 Introduction to algebra
 Solving Linear Equations
 Operations on rational numbers