



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 076

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

Course Full Title: Intermediate Math II
 Course Short Title:

Faculty: Faculty of Access and Open Studies

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 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 words such as, integer, rational number, co-ordinates, and polynomial
2. solve problems involving variable expressions
3. solve percent problems
4. evaluate and simplify variable expressions
5. solve rational number equations containing variables
6. solve geometry problems using relations between angles, lines, and triangles
7. interpret and use formulae for calculation of area and volume
8. perform operations using powers, roots, and scientific notation
9. use the Cartesian coordinate system to graph linear equations
10. find the slope of a straight line using rise and run
11. use basic trigonometric ratios (sine, cosine, and tangent) and the Pythagorean theorem to solve problems involving right triangles
12. 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 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

Vocabulary
 Geometric and trigonometric measurement
 Applied Problems
 Algebra
 Powers, roots, and scientific notation
 Graphing