ORIGINAL COURSE IMPLEMENTATION DATE:	September 2009
REVISED COURSE IMPLEMENTATION DATE:	January 2023
COURSE TO BE REVIEWED (six years after UEC approval)**:**	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 053	**Number of Credits:** 1.5 Course credit policy (105)
Course Full Title: Fundamental Math II **Course Short Title:**	
Faculty: Faculty of Education, Community, and Human Development	**Department:** Upgrading and University Preparation

Calendar Description:

The second of four fundamental-level mathematics courses. Introduces operations on fractions and decimals, and covers estimation, measurement,and problem solving.

Prerequisites (or NONE):	UUP department permission (assessment is required).
Corequisites (if applicable, or NONE):	NONE
Pre/corequisites (if applicable, or NONE):	NONE

Antirequisite Courses *(Cannot be taken for additional credit.)*

Former course code/number: **MATH 051**

Cross-listed with: **NONE**

Equivalent course(s): **NONE**

(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.)

Typical Structure of Instructional Hours

Tutorials/workshops	45
Total hours	**45**

Labs to be scheduled independent of lecture hours: ☒ No ☐ Yes

Course Details

Special Topics course: **No**

(If yes, the course will be offered under different letter designations representing different topics.)

Directed Study course: **No**

Grading System: **Letter Grades**

Delivery Mode: **May be offered in multiple delivery modes**

Expected frequency: **Every semester**

Maximum enrolment (for information only)**:** 24

Prior Learning Assessment and Recognition (PLAR)

PLAR cannot be awarded for this course because: ***students are placed according to the Departmental Assessment.***

Transfer Credit *(See **bctransferguide.ca**.)*

Transfer credit already exists: **No**

Submit outline for (re)articulation: **No**

(If yes, fill in transfer credit form.)

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 words such as product, reciprocal, prime, composite, proper and improper fractions, mixed numbers, and equivalent fractions.
2. Use prime factorization to find the greatest common factor and the least common multiple of a group of numbers.
3. Simplify, multiply, and divide common fractions.
4. Read and write decimal fractions to the ten-thousandths place value.
5. Compare decimal and common fraction values.
6. Add, subtract, multiply, divide, and round decimal numbers.
7. Convert between common fractions and decimal fractions.
8. Solve word problems involving decimal fractions, common fractions, or mixed numbers, including estimation of the answers.

After completion of MATH 053, students will meet the outcomes as described in the Adult Literacy Fundamental Math Levels 4 and 5 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:	40%	Quizzes/tests:	60%		%
	%		%		%

Details: 3 quizzes and 1 final exam.

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. Open Educational Resources (OER) should be included whenever possible. If more space is required, use the Supplemental Texts and Resource Materials form.)*

	Type	Author or description	Title and publication/access details	Year
1.	Textbook	W. Tagami/L. Girard	Adult Fundamental Literacy Math Books 1, 2, and 3 Creative Commons	2018
2.	Textbook	Baratto and Bergman	Prealgebra McGraw Hill Education	2014
3.				
4.				
5.				

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

Basic scientific calculator

Course Content and Topics

Module topics include:

- Introduction to prime factors and prime factorization
- Fractional operations
- Decimal operations