

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

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

Course Code and Number: MATH 062		Number of Credits: 1.5 Course credit policy (105)													
Course Full Title: Fundamental Math III Course Short Title:															
Faculty: Faculty of Education, Community, and Human Development		Department: Upgrading and University Preparation													
Calendar Description: The third of four fundamental-level mathematics courses. Introduces ratios, proportions, percentages, metric conversions, graphs, tables, and topic- related problem solving. Developing learning strategies is also an important component of this course.															
Prerequisites (or NONE):		One of the following: MATH 051, MATH 053, or UUP department permission (assessment is required).													
Corequisites (if applicable, or NONE):		NONE													
Pre/corequisites (if applicable, or NONE):		NONE													
Antirequisite Courses <i>(Cannot be taken for additional credit.)</i> Former course code/number: MATH 061 Cross-listed with: NONE Equivalent course(s): NONE <i>(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.)</i>		Course Details Special Topics course: No <i>(If yes, the course will be offered under different letter designations representing different topics.)</i> 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													
Typical Structure of Instructional Hours <table border="1"> <tr> <td>Tutorials/workshops</td> <td>45</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td>Total hours</td> <td>45</td> </tr> </table>		Tutorials/workshops	45									Total hours	45	Prior Learning Assessment and Recognition (PLAR) PLAR cannot be awarded for this course because: students are placed according to the Departmental Assessment.	
Tutorials/workshops	45														
Total hours	45														
Labs to be scheduled independent of lecture hours: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		Transfer Credit (See bctransferguide.ca .) Transfer credit already exists: No Submit outline for (re)articulation: No <i>(If yes, fill in transfer credit form.)</i>													
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 key words and symbols (e.g. ratio, rate, proportion, percent, commission, tax, discount, and simple interest).
2. Solve proportion problems.
3. Write relationships between quantities as a ratio, rate, or percent.
4. Convert between a decimal fraction, a common fraction, and a percent.
5. Solve various percent problems.
6. Use ratio and proportion to solve a variety of mathematical problems, including percent increase and decrease.
7. Convert measurements within the metric system.

After completion of MATH 062, students will meet outcomes as described in the Adult Literacy Fundamental Math Level 6 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:	60%	Assignments:	10%
	%		%		%

Details: Weightings will vary with individual instructors, but assessment methods may include activities, quizzes, unit tests, and a final examination.

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	Hutchison, D, Berman, B, & Baratto, S.	Prealgebra Ed: 4 McGraw-Hill	2014
2. OER book	Liz Girard, Wendy Tagami	Adult Fundamental Literacy Math Book 6 BCCampus OpenEd	current
3.			
4.			
5.			

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

Scientific calculator

Course Content and Topics

Module topics include:

Common fractions (e.g. four operations on common fractions, common multiples, mixed numbers, order of operations with common fractions, complex fractions)

Review of decimals, place value, and rounding

Ratios (e.g. ratios, rates, unit rates, proportions, applications of proportions)

Metric conversions

Percents (e.g. conversions among fractions, decimals, and percents; percent applications; simple interest)