



School of Access  
Community Learning Partnerships  
**MATH 025 S16**  
Fundamental Mathematics 5  
**Course Outline – Winter 2017**



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**Dates:** Jan 10, 2017 – April 20, 2017 **Class Hours:** Tue/Thur 9:00-11:50 am  
**Office Hours:** Tue/Thur 12:00 – 12:30, or by appointment

### Calendar Description

Offered in an individualized, small-class format, MATH 025 is the fifth of six levels of Adult Literacy Fundamental Mathematics, which will give students a strong foundation of basic math skills, concepts, vocabulary, and problem-solving strategies. Topics: simplifying, adding, subtracting, multiplying, and dividing fractions and mixed numbers.

**Prerequisite(s):** MATH 024

### Required Materials

(a) Textbook: *Adult Literacy Fundamental Mathematics Book 5*

### Supplementary Materials

- (b) three-ring binder, lined paper, graph paper
- (c) pencils, eraser, ruler, highlighter, file cards
- (d) manipulative materials (provided by instructor)

### Intended Learning Outcomes

Note: The complete ABE Fundamental Mathematics learning outcomes can be found in the ABE Articulation Handbook at: <http://www.aved.gov.bc.ca/abe/docs/handbook.pdf>

At completion of the course students will be able to:

1. Use math vocabulary related to simplifying, adding, subtracting, multiplying, and dividing fractions and mixed numbers.
2. Simplify, add, subtract, multiply, and divide fractions and mixed numbers.
3. Convert between fractions and decimals, and compare the magnitude of fractions and decimals.
4. Use addition, subtraction, multiplication, or division of fractions and mixed numbers to solve application problems.
5. Work independently on the materials provided, and ask for help when needed.
6. Use strategies to organize work and notes, and to manage time and math anxiety.

### Instructions for Self-Paced Learning

- (a) for each topic of the book listed below, study the explanations and examples, then work through and check your answers to as many exercise problems as you need to fully understand
- (b) ask for help when you have difficulties, or when you don't understand something
- (c) complete the Self-Tests for each topic and check your answers, then to prepare for the unit Final Test, complete the Review problems at the end of each unit
- (d) after clearing up any problems and correcting your errors, ask your instructor for authorization to write the unit Final Test
- (e) review your Final Test results with the instructor, and proceed to the next unit if you score 75% or better, or rewrite the Final Test if you score less than 75%
- (f) calculators may not be used on the Final Tests, unless approved by the instructor

The course completion time will vary for each student, depending on a number of factors, including your current level of math skills, motivation, learning rate, and how much time you have to study math, either at the college or at home. Students generally need to spend 5–15 hours of study time per week to complete each math course within a reasonable amount of time.

### Course Content

Unit	Topic	MATH 025 Course Content – Book 5
<b>1</b>		<b>Common Fractions</b>
	A	Introducing Common Fractions
	B	Common Fractions
	C	When to Use a Fraction or a Decimal
		Unit 1 Review
		Unit 1 Final Test
<b>2</b>		<b>Equivalent Fractions</b>
	A	Equivalent Fractions
		Unit 2 Review
		Unit 2 Final Test
<b>3</b>		<b>Multiplying and Dividing Fractions</b>
	A	Multiplying Common Fractions
	B	Dividing Common Fractions
		Unit 3 Review
		Unit 3 Final Test
<b>4</b>		<b>Adding and Subtracting Fractions</b>
	A	Adding Common Fractions
	B	Subtracting Common Fractions
	C	Problems Using Common Fractions
		Unit 4 Review
		Unit 4 Final Test

Unit	Topic	MATH 025 Course Content – Book 5
5		Common Fractions and Decimals
	A	Common Fractions and Decimals
	B	Comparing Fractions and Decimals
		Unit 5 Review
		Unit 5 Final Test

### Basis of Student Assessment (Weighting)

The MATH 025 course grade is based on the average of all unit Final Test passing scores.

### Grading System

Percentage	Grade	Grade Point Equivalency
90–100%	A+	9
85–89%	A	8
80–84%	A–	7
77–79%	B+	6
73–76%	B	5
70–72%	B–	4
65–69%	C+	3
60–64%	C	2
50–59%	D	1
<50%	F	0
In Progress	IP	N/A

## **Recommended Materials or Services to Assist Students to Succeed Throughout the Course**

### **LEARNING SUPPORT AND SERVICES FOR STUDENTS**

There are a variety of services available for students to assist them throughout their learning. This information is available in the College Calendar, Registrar's Office or the College web site at:

<http://www.camosun.ca>

### **STUDENT CONDUCT POLICY**

There is a Student Conduct Policy. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section, or the College web site at:

<http://camosun.ca/about/policies/index.html>

### **STUDENT GRADING POLICY**

A new student grading policy is in effect for students in the School of Access. This information is available in the College Calendar, Registrar's Office or the College web site at:

<http://camosun.ca/about/policies/index.html>

### **ACADEMIC PROGRESS POLICY**

There is an Academic Progress Policy designed to enhance a learner's likelihood of success. Students should become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section or the College web site at:

<http://camosun.ca/about/policies/index.html>